



Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

July 1, 2025
5:44:23am

COUNTY : GREENE BRIDGE : A7024 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : 3RD RTE THAT GOES 'UNDR' RUN DATE : 6/27/2025 SUBMITTAL YEAR : 2025

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	3RD RTE THAT GOES 'UNDR' Code : C
2	District	SW	5B	Route Signing Prefix	IS
3	County	GREENE	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	31505	5D	Route Number	00044
27	Year Built	2006	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	RP US65N TO IS44W
42A	Type of Service On	HIGHWAY	12	Base Hwy. Network	
21	Structure Maintenance		13A	LRS Inventory Route No.	
22	Structure Owner		13B	Subroute No.	
33	Br. Median Code		20	Toll Status	ON FREE ROAD
37	Historical Significance		26	Functional Classification	11-UR PRNCPL ARTERIAL-IS
101	Parallel Struc Desg	NONE EXISTS	28A	Lanes on Structure	02
103	Temporary Structure	NOT TEMPORARY	100	STRAHNET Designation	ON A DEFENSE HWY
112	NBIS Bridge Length		104	National Highway System	ON NHS
			105	Federal Lands Highway	
			110	Designated Nat. Network	YES
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	GREENE 90440	29	AADT	27931
	Code	90440	30	AADT Year	2024
9	Location	S 3 T 29 N R 21 W	102	Direction of Traffic	1-WAY TRAFFIC
11	Milepoint	82.92 miles	109	AADT Truck Percent	28%
16	Latitude	37 D 15 M 1 S	114	Future AADT	
17	Longitude	93 D 13 M 30 S	115	Future AADT Year	
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	IS 44	10	Inventory Rte. Vert. Clear	34 Ft. 7 In.
42B	Type of Service Under	HIGHWAY	19	By pass Detour Length	0.00 miles
28B	Lanes Under Structure	03	32	Approach Roadway Width	
54A	Vert. Clearance Ref.		34	Skew	
54B	Vert. Clearance		35	Struct. Flared	
55A	Rt. Lat Clear Ref.		47	Total Horiz. Clear	58 Ft. 5 In.
55B	Rt. Lat Clearance		48	Maximum Span Length	224 Ft. 1 In.
56	Left Lat Clearance		49	Structure Length	1,383 Ft. 10 In.
38	Navigation Control		50A	Left Curb/Sidewalk Width	
39	Nav Vertical Clear		50B	Right Curb/Sidewalk Width	
40	Nav Horizontal Clear		51	Curb to Curb Br. Width	
111	Nav. Pier Protection		52	Deck Width (Out-Out)	
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	

Design_No = a7024 and Inventory_Appraisal_Submittal_Year = 2025



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RECORD TYPE : 3RD RTE THAT GOES 'UNDR' RUN DATE : 6/27/2025 SUBMITTAL YEAR : 2025

LOAD RATING AND POSTING INFORMATION		MATERIAL/CONSTRUCTION INFORMATION	
<div>31</div> Design Load		<div>43A</div> Main Struc. Mat type	STEEL CONTINUOUS
<div>41</div> Structure Status		<div>43B</div> Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
<div>63</div> Oper. Rating Meth.		<div>45</div> # of Main Spans	
<div>64</div> Operating Rating		<div>44A</div> Appr Struc. Mat type	
<div>65</div> Inventory Rating Meth		<div>44B</div> Appr Struc. Cnstr. type	
<div>66</div> Inventory Rating		<div>46</div> # of Approach Span	
<div>70</div> Bridge Posting Code		<div>107</div> Deck Mat/Constr.	
		<div>108A</div> Wear Surf Mat/Constr.	
		<div>108B</div> Membrane Mat/Constr.	
		<div>108C</div> Deck Protect Mat/Constr.	
PROPOSED IMPROVEMENT INFORMATION		CONDITION RATING INFORMATION	
Sufficiency Rating		<div>58</div> Deck Cond. Rating	
Deficiency Rating		<div>59</div> Superstructure Cond. Rating	
Funding Eligibility		<div>60</div> Substructure Cond. Rating	
<div>75A</div> Proposed Work		<div>61</div> Channel /Channel Protection Cond. Rating	
<div>75B</div> Work Done By		<div>62</div> Culvert Cond. Rating	
<div>76</div> New Struc Length			
<div>94</div> Struc Improve Cost		INSPECTION INFORMATION	
<div>95</div> Roadway Improve Cost		<div>90</div> Gen. Insp Date	
<div>96</div> Total Project Cost		<div>91</div> Gen. Insp. Frequency	
<div>97</div> Year of Cost Estimates		<div>92A</div> Frac. Critical Inspection	
		<div>93A</div> Frac. Critical Insp. Date	
		<div>92B</div> Underwater Inspection	
		<div>93B</div> Underwater Insp. Date	
		<div>92C</div> Special Inspection	
		<div>93C</div> Special Inspection Date	
APPRAISAL RATING INFORMATION		BORDER BRIDGE INFORMATION	
<div>36A</div> Br. Rail App. Rating		<div>98</div> Neighboring State Code	
<div>36B</div> Transition Rail App. Rating		<div>98B</div> Neighboring State % Respon	
<div>36C</div> Approach Rail App. Rating		<div>99</div> Neighboring State Struc. No.	
<div>36D</div> Rail End Treat. App. Rating			
<div>67</div> Struc Eval App. Rating		FIELD POSTING INFORMATION	
<div>68</div> Deck Geometry App. Rating		Field Posting Category	
<div>69</div> Underclearance App. Rating		Ton1 Ton2 Ton3	
<div>71</div> Waterway Adeq. App. Rating		Tonnage Values for Posting Sign	
<div>72</div> Approach Road App. Rating		General Text for Posting Sign	
<div>113</div> Scour Assess App. Rating			
APPROVED POSTING INFORMATION			
Approved Posting Category			
Ton1 Ton2 Ton3			
Tonnage Values for Posting Sign			
General Text for Posting Sign			

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RECORD TYPE : 6TH RTE THAT GOES 'UNDER' RUN DATE : 6/27/2025 SUBMITTAL YEAR : 2025

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	6TH RTE THAT GOES 'UNDER' Code : F
2	District	SW	5B	Route Signing Prefix	US
3	County	GREENE	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	31505	5D	Route Number	00065
27	Year Built	2006	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	RP US65N TO IS44W
42A	Type of Service On	HIGHWAY	12	Base Hwy. Network	
21	Structure Maintenance		13A	LRS Inventory Route No.	
22	Structure Owner		13B	Subroute No.	
33	Br. Median Code		20	Toll Status	ON FREE ROAD
37	Historical Significance		26	Functional Classification	12-UR PRNCPL ARTERIAL-OTH
101	Parallel Struc Desg	NONE EXISTS	28A	Lanes on Structure	02
103	Temporary Structure	NOT TEMPORARY	100	STRAHNET Designation	OVER/UNDER A DEFENSE HWY
112	NBIS Bridge Length		104	National Highway System	ON NHS
			105	Federal Lands Highway	
			110	Designated Nat. Network	YES
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	GREENE 90440	29	AADT	34047
	Code	90440	30	AADT Year	2024
9	Location	S 3 T 29 N R 21 W	102	Direction of Traffic	1-WAY TRAFFIC
11	Milepoint	260.52 miles	109	AADT Truck Percent	12%
16	Latitude	37 D 15 M 1 S	114	Future AADT	
17	Longitude	93 D 13 M 30 S	115	Future AADT Year	
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	US 65	10	Inventory Rte. Vert. Clear	16 Ft. 10 In.
42B	Type of Service Under	HIGHWAY	19	By pass Detour Length	0.00 miles
28B	Lanes Under Structure	03	32	Approach Roadway Width	
54A	Vert. Clearance Ref.		34	Skew	
54B	Vert. Clearance		35	Struct. Flared	
55A	Rt. Lat Clear Ref.		47	Total Horiz. Clear	62 Ft. 0 In.
55B	Rt. Lat Clearance		48	Maximum Span Length	224 Ft. 1 In.
56	Left Lat Clearance		49	Structure Length	1,383 Ft. 10 In.
38	Navigation Control		50A	Left Curb/Sidewalk Width	
39	Nav Vertical Clear		50B	Right Curb/Sidewalk Width	
40	Nav Horizontal Clear		51	Curb to Curb Br. Width	
111	Nav. Pier Protection		52	Deck Width (Out-Out)	
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	

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LOAD RATING AND POSTING INFORMATION		MATERIAL/CONSTRUCTION INFORMATION	
<div>31</div> Design Load		<div>43A</div> Main Struc. Mat type	STEEL CONTINUOUS
<div>41</div> Structure Status		<div>43B</div> Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
<div>63</div> Oper. Rating Meth.		<div>45</div> # of Main Spans	
<div>64</div> Operating Rating		<div>44A</div> Appr Struc. Mat type	
<div>65</div> Inventory Rating Meth		<div>44B</div> Appr Struc. Cnstr. type	
<div>66</div> Inventory Rating		<div>46</div> # of Approach Span	
<div>70</div> Bridge Posting Code		<div>107</div> Deck Mat/Constr.	
		<div>108A</div> Wear Surf Mat/Constr.	
		<div>108B</div> Membrane Mat/Constr.	
		<div>108C</div> Deck Protect Mat/Constr.	
PROPOSED IMPROVEMENT INFORMATION		CONDITION RATING INFORMATION	
Sufficiency Rating		<div>58</div> Deck Cond. Rating	
Deficiency Rating		<div>59</div> Superstructure Cond. Rating	
Funding Eligibility		<div>60</div> Substructure Cond. Rating	
<div>75A</div> Proposed Work		<div>61</div> Channel /Channel Protection Cond. Rating	
<div>75B</div> Work Done By		<div>62</div> Culvert Cond. Rating	
<div>76</div> New Struc Length			
<div>94</div> Struc Improve Cost		INSPECTION INFORMATION	
<div>95</div> Roadway Improve Cost		<div>90</div> Gen. Insp Date	
<div>96</div> Total Project Cost		<div>91</div> Gen. Insp. Frequency	
<div>97</div> Year of Cost Estimates		<div>92A</div> Frac. Critical Inspection	
		<div>93A</div> Frac. Critical Insp. Date	
		<div>92B</div> Underwater Inspection	
		<div>93B</div> Underwater Insp. Date	
		<div>92C</div> Special Inspection	
		<div>93C</div> Special Inspection Date	
APPRAISAL RATING INFORMATION		BORDER BRIDGE INFORMATION	
<div>36A</div> Br. Rail App. Rating		<div>98</div> Neighboring State Code	
<div>36B</div> Transition Rail App. Rating		<div>98B</div> Neighboring State % Respon	
<div>36C</div> Approach Rail App. Rating		<div>99</div> Neighboring State Struc. No.	
<div>36D</div> Rail End Treat. App. Rating			
<div>67</div> Struc Eval App. Rating		FIELD POSTING INFORMATION	
<div>68</div> Deck Geometry App. Rating		Field Posting Category	
<div>69</div> Underclearance App. Rating		Ton1 Ton2 Ton3	
<div>71</div> Waterway Adeq. App. Rating		Tonnage Values for Posting Sign	
<div>72</div> Approach Road App. Rating		General Text for Posting Sign	
<div>113</div> Scour Assess App. Rating			
APPROVED POSTING INFORMATION			
Approved Posting Category			
Ton1 Ton2 Ton3			
Tonnage Values for Posting Sign			
General Text for Posting Sign			

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GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	1 RTE THAT GOES 'UNDER' S Code : A
2	District	SW	5B	Route Signing Prefix	MO
3	County	GREENE	5C	Designated Level of Service	RAMP, WYE, CONNECTOR, ETC
8	Federal ID No.	31505	5D	Route Number	00000
27	Year Built	2006	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	RP US65N TO IS44W
42A	Type of Service On	HIGHWAY	12	Base Hwy. Network	
21	Structure Maintenance		13A	LRS Inventory Route No.	
22	Structure Owner		13B	Subroute No.	
33	Br. Median Code		20	Toll Status	ON FREE ROAD
37	Historical Significance		26	Functional Classification	11-UR PRNCPL ARTERIAL-IS
101	Parallel Struc Desg	NONE EXISTS	28A	Lanes on Structure	02
103	Temporary Structure	NOT TEMPORARY	100	STRAHNET Designation	RTE NOT A DEFENSE HWY
112	NBIS Bridge Length		104	National Highway System	ON NHS
			105	Federal Lands Highway	
			110	Designated Nat. Network	YES
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	GREENE 90440	29	AADT	2473
	Code	90440	30	AADT Year	2024
9	Location	S 3 T 29 N R 21 W	102	Direction of Traffic	1-WAY TRAFFIC
11	Milepoint	0.17 miles	109	AADT Truck Percent	21%
16	Latitude	37 D 15 M 1 S	114	Future AADT	
17	Longitude	93 D 13 M 30 S	115	Future AADT Year	
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	RP IS44E TO US65N	10	Inventory Rte. Vert. Clear	16 Ft. 9 In.
42B	Type of Service Under	HIGHWAY	19	By pass Detour Length	0.00 miles
28B	Lanes Under Structure	01	32	Approach Roadway Width	
54A	Vert. Clearance Ref.		34	Skew	
54B	Vert. Clearance		35	Struct. Flared	
55A	Rt. Lat Clear Ref.		47	Total Horiz. Clear	57 Ft. 1 In.
55B	Rt. Lat Clearance		48	Maximum Span Length	224 Ft. 1 In.
56	Left Lat Clearance		49	Structure Length	1,383 Ft. 10 In.
38	Navigation Control		50A	Left Curb/Sidewalk Width	
39	Nav Vertical Clear		50B	Right Curb/Sidewalk Width	
40	Nav Horizontal Clear		51	Curb to Curb Br. Width	
111	Nav. Pier Protection		52	Deck Width (Out-Out)	
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	

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LOAD RATING AND POSTING INFORMATION		MATERIAL/CONSTRUCTION INFORMATION	
<div>31</div> Design Load		<div>43A</div> Main Struc. Mat type	STEEL CONTINUOUS
<div>41</div> Structure Status		<div>43B</div> Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
<div>63</div> Oper. Rating Meth.		<div>45</div> # of Main Spans	
<div>64</div> Operating Rating		<div>44A</div> Appr Struc. Mat type	
<div>65</div> Inventory Rating Meth		<div>44B</div> Appr Struc. Cnstr. type	
<div>66</div> Inventory Rating		<div>46</div> # of Approach Span	
<div>70</div> Bridge Posting Code		<div>107</div> Deck Mat/Constr.	
		<div>108A</div> Wear Surf Mat/Constr.	
		<div>108B</div> Membrane Mat/Constr.	
		<div>108C</div> Deck Protect Mat/Constr.	
PROPOSED IMPROVEMENT INFORMATION		CONDITION RATING INFORMATION	
Sufficiency Rating		<div>58</div> Deck Cond. Rating	
Deficiency Rating		<div>59</div> Superstructure Cond. Rating	
Funding Eligibility		<div>60</div> Substructure Cond. Rating	
<div>75A</div> Proposed Work		<div>61</div> Channel /Channel Protection Cond. Rating	
<div>75B</div> Work Done By		<div>62</div> Culvert Cond. Rating	
<div>76</div> New Struc Length			
<div>94</div> Struc Improve Cost		INSPECTION INFORMATION	
<div>95</div> Roadway Improve Cost		<div>90</div> Gen. Insp Date	
<div>96</div> Total Project Cost		<div>91</div> Gen. Insp. Frequency	
<div>97</div> Year of Cost Estimates		<div>92A</div> Frac. Critical Inspection	
		<div>93A</div> Frac. Critical Insp. Date	
		<div>92B</div> Underwater Inspection	
		<div>93B</div> Underwater Insp. Date	
		<div>92C</div> Special Inspection	
		<div>93C</div> Special Inspection Date	
APPRAISAL RATING INFORMATION		BORDER BRIDGE INFORMATION	
<div>36A</div> Br. Rail App. Rating		<div>98</div> Neighboring State Code	
<div>36B</div> Transition Rail App. Rating		<div>98B</div> Neighboring State % Respon	
<div>36C</div> Approach Rail App. Rating		<div>99</div> Neighboring State Struc. No.	
<div>36D</div> Rail End Treat. App. Rating			
<div>67</div> Struc Eval App. Rating		FIELD POSTING INFORMATION	
<div>68</div> Deck Geometry App. Rating		Field Posting Category	
<div>69</div> Underclearance App. Rating			
<div>71</div> Waterway Adeq. App. Rating		Ton1 Ton2 Ton3	
<div>72</div> Approach Road App. Rating		Tonnage Values for Posting Sign	
<div>113</div> Scour Assess App. Rating		General Text for Posting Sign	
APPROVED POSTING INFORMATION			
Approved Posting Category			
Ton1 Ton2 Ton3			
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GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	2ND RTE THAT GOES 'UNDR'S Code : B
2	District	SW	5B	Route Signing Prefix	IS
3	County	GREENE	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	31505	5D	Route Number	00044
27	Year Built	2006	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	RP US65N TO IS44W
42A	Type of Service On	HIGHWAY	12	Base Hwy. Network	
21	Structure Maintenance		13A	LRS Inventory Route No.	
22	Structure Owner		13B	Subroute No.	
33	Br. Median Code		20	Toll Status	ON FREE ROAD
37	Historical Significance		26	Functional Classification	11-UR PRNCPL ARTERIAL-IS
101	Parallel Struc Desg	NONE EXISTS	28A	Lanes on Structure	02
103	Temporary Structure	NOT TEMPORARY	100	STRAHNET Designation	ON A DEFENSE HWY
112	NBIS Bridge Length		104	National Highway System	ON NHS
			105	Federal Lands Highway	
			110	Designated Nat. Network	YES
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	GREENE 90440	29	AADT	27910
	Code	90440	30	AADT Year	2024
9	Location	S 3 T 29 N R 21 W	102	Direction of Traffic	1-WAY TRAFFIC
11	Milepoint	211.97 miles	109	AADT Truck Percent	27%
16	Latitude	37 D 15 M 1 S	114	Future AADT	
17	Longitude	93 D 13 M 30 S	115	Future AADT Year	
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	IS 44	10	Inventory Rte. Vert. Clear	29 Ft. 5 In.
42B	Type of Service Under	HIGHWAY	19	By pass Detour Length	0.00 miles
28B	Lanes Under Structure	03	32	Approach Roadway Width	
54A	Vert. Clearance Ref.		34	Skew	
54B	Vert. Clearance		35	Struct. Flared	
55A	Rt. Lat Clear Ref.		47	Total Horiz. Clear	58 Ft. 5 In.
55B	Rt. Lat Clearance		48	Maximum Span Length	224 Ft. 1 In.
56	Left Lat Clearance		49	Structure Length	1,383 Ft. 10 In.
38	Navigation Control		50A	Left Curb/Sidewalk Width	
39	Nav Vertical Clear		50B	Right Curb/Sidewalk Width	
40	Nav Horizontal Clear		51	Curb to Curb Br. Width	
111	Nav. Pier Protection		52	Deck Width (Out-Out)	
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	

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31	Design Load	43A	Main Struc. Mat type STEEL CONTINUOUS
41	Structure Status	43B	Main struc Constr. Type STRINGER/MULTIBEAM - GRD
63	Oper. Rating Meth.	45	# of Main Spans
64	Operating Rating	44A	Appr Struc. Mat type
65	Inventory Rating Meth	44B	Appr Struc. Cnstr. type
66	Inventory Rating	46	# of Approach Span
70	Bridge Posting Code	107	Deck Mat/Constr.
PROPOSED IMPROVEMENT INFORMATION		108A	Wear Surf Mat/Constr.
Sufficiency Rating		108B	Membrane Mat/Constr.
Deficiency Rating		108C	Deck Protect Mat/Constr.
Funding Eligibility		CONDITION RATING INFORMATION	
75A	Proposed Work	58	Deck Cond. Rating
75B	Work Done By	59	Superstructure Cond. Rating
76	New Struc Length	60	Substructure Cond. Rating
94	Struc Improve Cost	61	Channel /Channel Protection Cond. Rating
95	Roadway Improve Cost	62	Culvert Cond. Rating
96	Total Project Cost	INSPECTION INFORMATION	
97	Year of Cost Estimates	90	Gen. Insp Date
APPRAISAL RATING INFORMATION		91	Gen. Insp. Frequency
36A	Br. Rail App. Rating	92A	Frac. Critical Inspection
36B	Transition Rail App. Rating	93A	Frac. Critical Insp. Date
36C	Approach Rail App. Rating	92B	Underwater Inspection
36D	Rail End Treat. App. Rating	93B	Underwater Insp. Date
67	Struc Eval App. Rating	92C	Special Inspection
68	Deck Geometry App. Rating	93C	Special Inspection Date
69	Underclearance App. Rating	BORDER BRIDGE INFORMATION	
71	Waterway Adeq. App. Rating	98	Neighboring State Code
72	Approach Road App. Rating	98B	Neighboring State % Respon
113	Scour Assess App. Rating	99	Neighboring State Struc. No.
APPROVED POSTING INFORMATION		FIELD POSTING INFORMATION	
Approved Posting Category		Field Posting Category	
Ton1 Ton2 Ton3		Ton1 Ton2 Ton3	
Tonnage Values for Posting Sign		Tonnage Values for Posting Sign	
General Text for Posting Sign		General Text for Posting Sign	

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GENERAL STRUCTURE INFORMATION

1 State MISSOURI
2 District SW
3 County GREENE
8 Federal ID No. 31505
27 Year Built 2006
106 Year Reconstructed 0
42A Type of Service On HIGHWAY
21 Structure Maintenance
22 Structure Owner
33 Br. Median Code
37 Historical Significance
101 Parallel Struc Desg NONE EXISTS
103 Temporary Structure NOT TEMPORARY
112 NBIS Bridge Length

ROUTE DESIGNATION INFORMATION

5A Record Type 4TH RTE THAT GOES 'UNDR' Code : D
5B Route Signing Prefix MO
5C Designated Level of Service RAMP, WYE, CONNECTOR, ETC
5D Route Number 00000
5E Directional Suffix NOT APPLICABLE
7 Facility Carried RP US65N TO IS44W
12 Base Hwy. Network
13A LRS Inventory Route No.
13B Subroute No.
20 Toll Status ON FREE ROAD
26 Functional Classification 11-UR PRNCPL ARTERIAL-IS
28A Lanes on Structure 02
100 STRAHNET Designation RTE NOT A DEFENSE HWY
104 National Highway System ON NHS
105 Federal Lands Highway
110 Designated Nat. Network YES

STRUCTURE LOCATION INFORMATION

4 Place GREENE 90440
Code 90440
9 Location S 3 T 29 N R 21 W
11 Milepoint 0.04 miles
16 Latitude 37 D 15 M 1 S
17 Longitude 93 D 13 M 30 S

STRUCTURE TRAFFIC INFORMATION

29 AADT 11663
30 AADT Year 2024
102 Direction of Traffic 1-WAY TRAFFIC
109 AADT Truck Percent 15%
114 Future AADT
115 Future AADT Year

UNDERRECORD INFORMATION

6 Features Intersected RP IS44W TO US65S
42B Type of Service Under HIGHWAY
28B Lanes Under Structure 01
54A Vert. Clearance Ref.
54B Vert. Clearance
55A Rt. Lat Clear Ref.
55B Rt. Lat Clearance
56 Left Lat Clearance
38 Navigation Control
39 Nav Vertical Clear
40 Nav Horizontal Clear
111 Nav. Pier Protection
116 Nav. Cl. Vert. Clear

STRUCTURE GEOMETRIC INFORMATION

10 Inventory Rte. Vert. Clear 16 Ft. 6 In.
19 By pass Detour Length 0.00 miles
32 Approach Roadway Width
34 Skew
35 Struct. Flared
47 Total Horiz. Clear 41 Ft. 12 In.
48 Maximum Span Length 224 Ft. 1 In.
49 Structure Length 1,383 Ft. 10 In.
50A Left Curb/Sidewalk Width
50B Right Curb/Sidewalk Width
51 Curb to Curb Br. Width
52 Deck Width (Out-Out)
53 Vert. Clearance Over Deck

Design_No = a7024 and Inventory_Appraisal_Submittal_Year = 2025



Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

July 1, 2025
5:44:23am

COUNTY : GREENE BRIDGE : A7024 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : 4TH RTE THAT GOES 'UNDR' RUN DATE : 6/27/2025 SUBMITTAL YEAR : 2025

LOAD RATING AND POSTING INFORMATION		MATERIAL/CONSTRUCTION INFORMATION	
<div>31</div> Design Load		<div>43A</div> Main Struc. Mat type	STEEL CONTINUOUS
<div>41</div> Structure Status		<div>43B</div> Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
<div>63</div> Oper. Rating Meth.		<div>45</div> # of Main Spans	
<div>64</div> Operating Rating		<div>44A</div> Appr Struc. Mat type	
<div>65</div> Inventory Rating Meth		<div>44B</div> Appr Struc. Cnstr. type	
<div>66</div> Inventory Rating		<div>46</div> # of Approach Span	
<div>70</div> Bridge Posting Code		<div>107</div> Deck Mat/Constr.	
		<div>108A</div> Wear Surf Mat/Constr.	
		<div>108B</div> Membrane Mat/Constr.	
		<div>108C</div> Deck Protect Mat/Constr.	
PROPOSED IMPROVEMENT INFORMATION		CONDITION RATING INFORMATION	
Sufficiency Rating		<div>58</div> Deck Cond. Rating	
Deficiency Rating		<div>59</div> Superstructure Cond. Rating	
Funding Eligibility		<div>60</div> Substructure Cond. Rating	
<div>75A</div> Proposed Work		<div>61</div> Channel /Channel Protection Cond. Rating	
<div>75B</div> Work Done By		<div>62</div> Culvert Cond. Rating	
<div>76</div> New Struc Length			
<div>94</div> Struc Improve Cost		INSPECTION INFORMATION	
<div>95</div> Roadway Improve Cost		<div>90</div> Gen. Insp Date	
<div>96</div> Total Project Cost		<div>91</div> Gen. Insp. Frequency	
<div>97</div> Year of Cost Estimates		<div>92A</div> Frac. Critical Inspection	
		<div>93A</div> Frac. Critical Insp. Date	
		<div>92B</div> Underwater Inspection	
		<div>93B</div> Underwater Insp. Date	
		<div>92C</div> Special Inspection	
		<div>93C</div> Special Inspection Date	
APPRAISAL RATING INFORMATION		BORDER BRIDGE INFORMATION	
<div>36A</div> Br. Rail App. Rating		<div>98</div> Neighboring State Code	
<div>36B</div> Transition Rail App. Rating		<div>98B</div> Neighboring State % Respon	
<div>36C</div> Approach Rail App. Rating		<div>99</div> Neighboring State Struc. No.	
<div>36D</div> Rail End Treat. App. Rating			
<div>67</div> Struc Eval App. Rating			
<div>68</div> Deck Geometry App. Rating			
<div>69</div> Underclearance App. Rating			
<div>71</div> Waterway Adeq. App. Rating			
<div>72</div> Approach Road App. Rating			
<div>113</div> Scour Assess App. Rating			
APPROVED POSTING INFORMATION		FIELD POSTING INFORMATION	
Approved Posting Category		Field Posting Category	
Ton1 Ton2 Ton3		Ton1 Ton2 Ton3	
Tonnage Values for Posting Sign		Tonnage Values for Posting Sign	
General Text for Posting Sign		General Text for Posting Sign	

Design_No = a7024 and Inventory_Appraisal_Submittal_Year = 2025



Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

July 1, 2025
5:44:23am

COUNTY : GREENE BRIDGE : A7024 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 6/27/2025 SUBMITTAL YEAR : 2025

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE CARRIED 'ON' STRUCT
2	District	SW	5B	Route Signing Prefix	MO
3	County	GREENE	5C	Designated Level of Service	RAMP, WYE, CONNECTOR, ETC
8	Federal ID No.	31505	5D	Route Number	00000
27	Year Built	2006	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	RP US65N TO IS44W
42A	Type of Service On	HIGHWAY	12	Base Hwy. Network	YES
21	Structure Maintenance	STATE HIGHWAY AGENCY	13A	LRS Inventory Route No.	0000913944
22	Structure Owner	STATE HIGHWAY AGENCY	13B	Subroute No.	00
33	Br. Median Code	NO MEDIAN	20	Toll Status	ON FREE ROAD
37	Historical Significance	HISTORICAL SIGNIF UNKNWN	26	Functional Classification	11-UR PRNCPL ARTERIAL-IS
101	Parallel Struc Desg	NONE EXISTS	28A	Lanes on Structure	02
103	Temporary Structure	NOT TEMPORARY	100	STRAHNET Designation	RTE NOT A DEFENSE HWY
112	NBIS Bridge Length	YES	104	National Highway System	ON NHS
			105	Federal Lands Highway	NOT APPLICABLE
			110	Designated Nat. Network	YES
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	GREENE 90440	29	AADT	12276
	Code	90440	30	AADT Year	2024
9	Location	S 3 T 29 N R 21 W	102	Direction of Traffic	1-WAY TRAFFIC
11	Milepoint	0.16 miles	109	AADT Truck Percent	10%
16	Latitude	37 D 15 M 1 S	114	Future AADT	19028
17	Longitude	93 D 13 M 30 S	115	Future AADT Year	2044
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	IS 44, RP IS44E TO US6	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	HIGHWAY	19	By pass Detour Length	1.88 miles
28B	Lanes Under Structure		32	Approach Roadway Width	38 Ft. 1 In.
54A	Vert. Clearance Ref.	HIGHWAY	34	Skew	40.00 Degrees
54B	Vert. Clearance	16 Ft. 6 In.	35	Struct. Flared	NO
55A	Rt. Lat Clear Ref.	N/A	47	Total Horiz. Clear	38 Ft. 1 In.
55B	Rt. Lat Clearance	0 Ft. 0 In.	48	Maximum Span Length	224 Ft. 1 In.
56	Left Lat Clearance	8 Ft. 6 In.	49	Structure Length	1,383 Ft. 10 In.
38	Navigation Control	N/A	50A	Left Curb/Sidewalk Width	0 Ft. 0 In.
39	Nav Vertical Clear	0 Ft. 0 In.	50B	Right Curb/Sidewalk Width	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.	51	Curb to Curb Br. Width	38 Ft. 1 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	40 Ft. 8 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

Design_No = a7024 and Inventory_Appraisal_Submittal_Year = 2025



Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

July 1, 2025
5:44:23am

COUNTY : GREENE BRIDGE : A7024 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 6/27/2025 SUBMITTAL YEAR : 2025

LOAD RATING AND POSTING INFORMATION			MATERIAL/CONSTRUCTION INFORMATION		
31	Design Load	HS 25	43A	Main Struc. Mat type	STEEL CONTINUOUS
41	Structure Status	OPEN NO RESTRICTIONS	43B	Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
63	Oper. Rating Meth.	LOAD FACTOR	45	# of Main Spans	3
64	Operating Rating	87 Tons.	44A	Appr Struc. Mat type	STEEL CONTINUOUS
65	Inventory Rating Meth	LOAD FACTOR	44B	Appr Struc. Cnstr. type	STRINGER/MULTIBEAM - GRD
66	Inventory Rating	53 Tons.	46	# of Approach Span	4
70	Bridge Posting Code	=>LEGAL LOADS	107	Deck Mat/Constr.	1 CONCRETE CIP
PROPOSED IMPROVEMENT INFORMATION			108A	Wear Surf Mat/Constr.	1 MONO CONCRETE
Sufficiency Rating 87.0 Percent			108B	Membrane Mat/Constr.	0 NONE
Deficiency Rating NOT DEFICIENT			108C	Deck Protect Mat/Constr.	1 EPOXY
Funding Eligibility			CONDITION RATING INFORMATION		
75A	Proposed Work		58	Deck Cond. Rating	6
75B	Work Done By		59	Superstructure Cond. Rating	6
76	New Struc Length	0 Ft. 0 In.	60	Substructure Cond. Rating	5
94	Struc Improve Cost	\$ 0,000	61	Channel /Channel Protection Cond. Rating	N
95	Roadway Improve Cost	\$ 0,000	62	Culvert Cond. Rating	N
96	Total Project Cost	\$ 0,000	INSPECTION INFORMATION		
97	Year of Cost Estimates	0	90	Gen. Insp Date	1 / 25
APPRAISAL RATING INFORMATION			91	Gen. Insp. Frequency	24 Months
36A	Br. Rail App. Rating	MEETS ACCEPTBLE STND	92A	Frac. Critical Inspection	N Months
36B	Transition Rail App. Rating	MEETS ACCEPTBLE STND	93A	Frac. Critical Insp. Date	
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND	92B	Underwater Inspection	N Months
36D	Rail End Treat. App. Rating	MEETS ACCEPTBLE STND	93B	Underwater Insp. Date	
67	Struc Eval App. Rating	5	92C	Special Inspection	N Months
68	Deck Geometry App. Rating	9	93C	Special Inspection Date	
69	Underclearance App. Rating	N	BORDER BRIDGE INFORMATION		
71	Waterway Adeq. App. Rating	N	98	Neighboring State Code	
72	Approach Road App. Rating	8	98B	Neighboring State % Respon	
113	Scour Assess App. Rating	N	99	Neighboring State Struc. No.	
APPROVED POSTING INFORMATION			FIELD POSTING INFORMATION		
Approved Posting Category S-1			Field Posting Category S-1		
Ton1 Ton2 Ton3			Ton1 Ton2 Ton3		
Tonnage Values for Posting Sign			Tonnage Values for Posting Sign		
General Text for Posting Sign			General Text for Posting Sign		
NO POSTING REQUIRED			NO POSTING REQUIRED		

Design_No = a7024 and Inventory_Appraisal_Submittal_Year = 2025



Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet

July 1, 2025
5:44:23am

COUNTY : GREENE BRIDGE : A7024 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : 5TH RTE THAT GOES 'UNDR'S RUN DATE : 6/27/2025 SUBMITTAL YEAR : 2025

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	5TH RTE THAT GOES 'UNDR'S Code : E
2	District	SW	5B	Route Signing Prefix	US
3	County	GREENE	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	31505	5D	Route Number	00065
27	Year Built	2006	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	RP US65N TO IS44W
42A	Type of Service On	HIGHWAY	12	Base Hwy. Network	
21	Structure Maintenance		13A	LRS Inventory Route No.	
22	Structure Owner		13B	Subroute No.	
33	Br. Median Code		20	Toll Status	ON FREE ROAD
37	Historical Significance		26	Functional Classification	12-UR PRNCPL ARTERIAL-OTH
101	Parallel Struc Desg	NONE EXISTS	28A	Lanes on Structure	02
103	Temporary Structure	NOT TEMPORARY	100	STRAHNET Designation	OVER/UNDER A DEFENSE HWY
112	NBIS Bridge Length		104	National Highway System	ON NHS
			105	Federal Lands Highway	
			110	Designated Nat. Network	YES
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	GREENE 90440	29	AADT	28979
	Code	90440	30	AADT Year	2024
9	Location	S 3 T 29 N R 21 W	102	Direction of Traffic	1-WAY TRAFFIC
11	Milepoint	54.36 miles	109	AADT Truck Percent	15%
16	Latitude	37 D 15 M 1 S	114	Future AADT	
17	Longitude	93 D 13 M 30 S	115	Future AADT Year	
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	US 65	10	Inventory Rte. Vert. Clear	17 Ft. 3 In.
42B	Type of Service Under	HIGHWAY	19	By pass Detour Length	0.00 miles
28B	Lanes Under Structure	03	32	Approach Roadway Width	
54A	Vert. Clearance Ref.		34	Skew	
54B	Vert. Clearance		35	Struct. Flared	
55A	Rt. Lat Clear Ref.		47	Total Horiz. Clear	60 Ft. 0 In.
55B	Rt. Lat Clearance		48	Maximum Span Length	224 Ft. 1 In.
56	Left Lat Clearance		49	Structure Length	1,383 Ft. 10 In.
38	Navigation Control		50A	Left Curb/Sidewalk Width	
39	Nav Vertical Clear		50B	Right Curb/Sidewalk Width	
40	Nav Horizontal Clear		51	Curb to Curb Br. Width	
111	Nav. Pier Protection		52	Deck Width (Out-Out)	
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	

Design_No = a7024 and Inventory_Appraisal_Submittal_Year = 2025



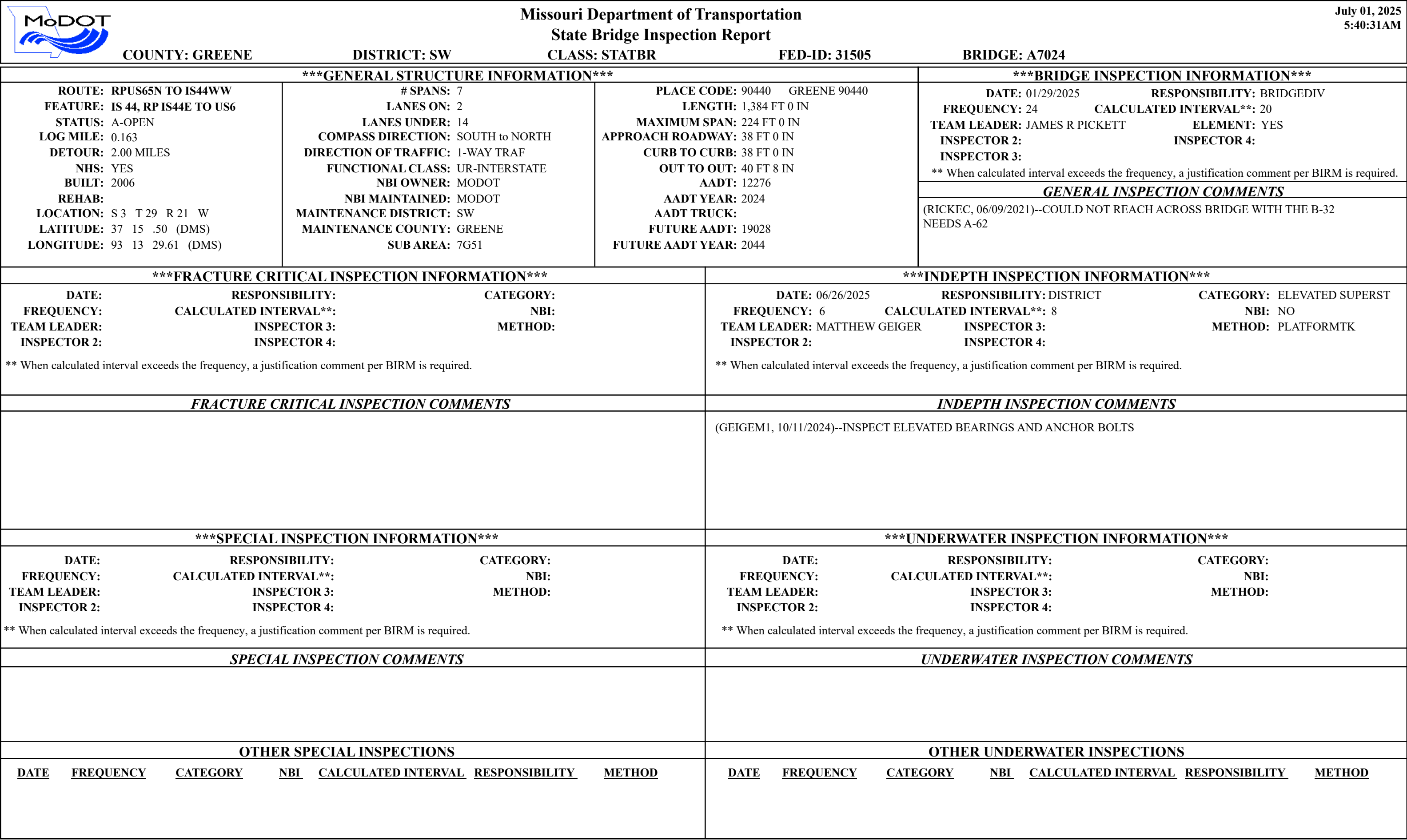
Missouri Department of Transportation
Bridge Inventory and Inspection System
Structural Inventory & Appraisal Sheet


July 1, 2025
5:44:23am

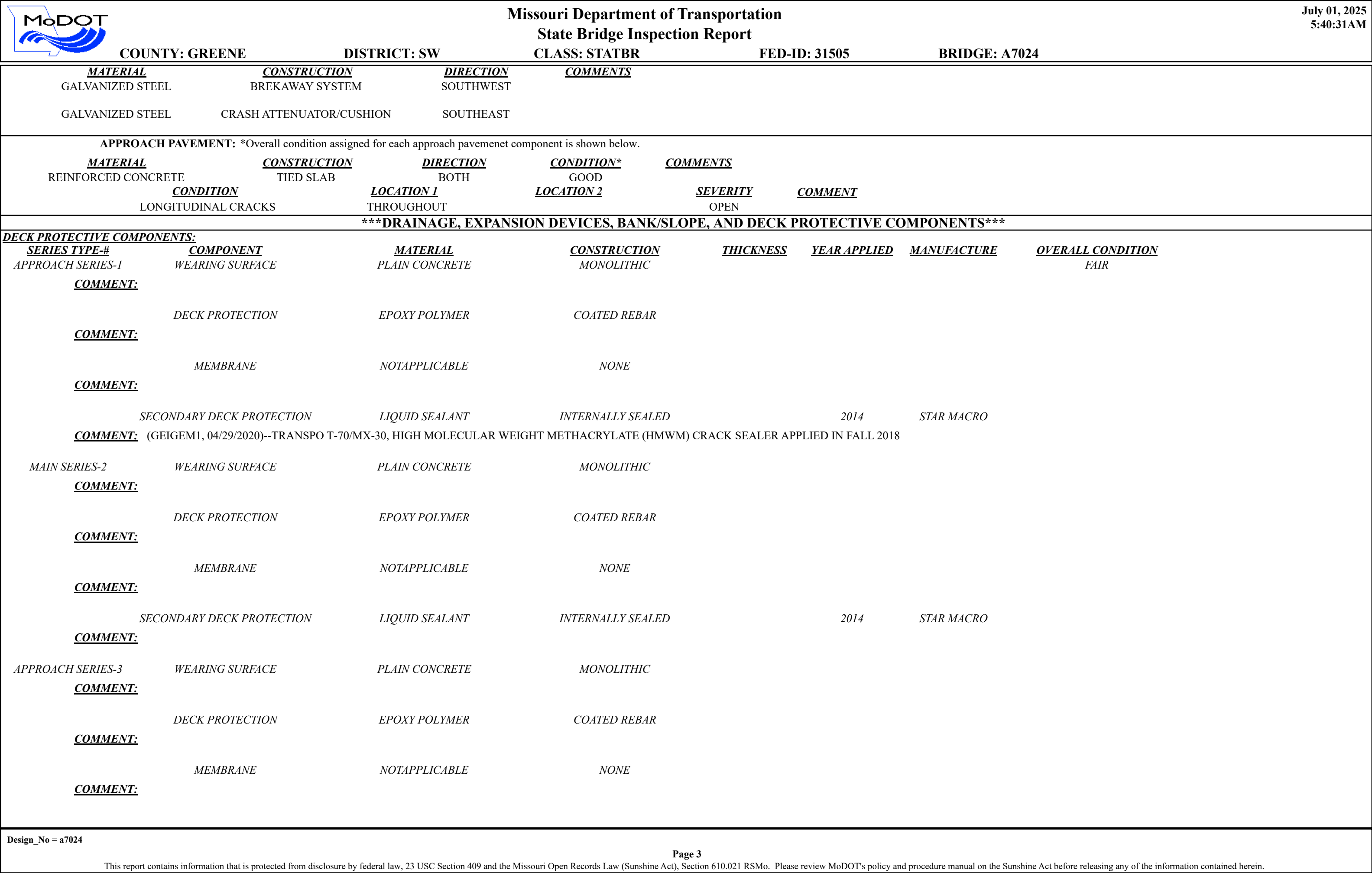
COUNTY : GREENE BRIDGE : A7024 REVIEW STATUS : APPROVED NBI STATUS : T
RECORD TYPE : 5TH RTE THAT GOES 'UNDR'S RUN DATE : 6/27/2025 SUBMITTAL YEAR : 2025


LOAD RATING AND POSTING INFORMATION		MATERIAL/CONSTRUCTION INFORMATION	
<div>31</div> Design Load		<div>43A</div> Main Struc. Mat type	STEEL CONTINUOUS
<div>41</div> Structure Status		<div>43B</div> Main struc Constr. Type	STRINGER/MULTIBEAM - GRD
<div>63</div> Oper. Rating Meth.		<div>45</div> # of Main Spans	
<div>64</div> Operating Rating		<div>44A</div> Appr Struc. Mat type	
<div>65</div> Inventory Rating Meth		<div>44B</div> Appr Struc. Cnstr. type	
<div>66</div> Inventory Rating		<div>46</div> # of Approach Span	
<div>70</div> Bridge Posting Code		<div>107</div> Deck Mat/Constr.	
		<div>108A</div> Wear Surf Mat/Constr.	
		<div>108B</div> Membrane Mat/Constr.	
		<div>108C</div> Deck Protect Mat/Constr.	
PROPOSED IMPROVEMENT INFORMATION		CONDITION RATING INFORMATION	
Sufficiency Rating		<div>58</div> Deck Cond. Rating	
Deficiency Rating		<div>59</div> Superstructure Cond. Rating	
Funding Eligibility		<div>60</div> Substructure Cond. Rating	
<div>75A</div> Proposed Work		<div>61</div> Channel /Channel Protection Cond. Rating	
<div>75B</div> Work Done By		<div>62</div> Culvert Cond. Rating	
<div>76</div> New Struc Length			
<div>94</div> Struc Improve Cost		INSPECTION INFORMATION	
<div>95</div> Roadway Improve Cost		<div>90</div> Gen. Insp Date	
<div>96</div> Total Project Cost		<div>91</div> Gen. Insp. Frequency	
<div>97</div> Year of Cost Estimates		<div>92A</div> Frac. Critical Inspection	
		<div>93A</div> Frac. Critical Insp. Date	
		<div>92B</div> Underwater Inspection	
		<div>93B</div> Underwater Insp. Date	
		<div>92C</div> Special Inspection	
		<div>93C</div> Special Inspection Date	
APPRAISAL RATING INFORMATION		BORDER BRIDGE INFORMATION	
<div>36A</div> Br. Rail App. Rating		<div>98</div> Neighboring State Code	
<div>36B</div> Transition Rail App. Rating		<div>98B</div> Neighboring State % Respon	
<div>36C</div> Approach Rail App. Rating		<div>99</div> Neighboring State Struc. No.	
<div>36D</div> Rail End Treat. App. Rating			
<div>67</div> Struc Eval App. Rating		FIELD POSTING INFORMATION	
<div>68</div> Deck Geometry App. Rating		Field Posting Category	
<div>69</div> Underclearance App. Rating		Ton1 Ton2 Ton3	
<div>71</div> Waterway Adeq. App. Rating		Tonnage Values for Posting Sign	
<div>72</div> Approach Road App. Rating		General Text for Posting Sign	
<div>113</div> Scour Assess App. Rating			
APPROVED POSTING INFORMATION			
Approved Posting Category			
Ton1 Ton2 Ton3			
Tonnage Values for Posting Sign			
General Text for Posting Sign			

Design_No = a7024 and Inventory_Appraisal_Submittal_Year = 2025



		Missouri Department of Transportation			July 01, 2025	
		State Bridge Inspection Report			5:40:31AM	
COUNTY: GREENE		DISTRICT: SW	CLASS: STATBR	FED-ID: 31505	BRIDGE: A7024	
STRUCTURE POSTING						
APPROVED CATEGORY: S-1		NO POSTING REQUIRED				
Ton 1:		Ton 2:		Ton 3:		
COMMENTS:						
FIELD CATEGORY: S-1		NO POSTING REQUIRED				
Ton 1:		Ton 2:		Ton 3:	PROBLEM:	PROBLEM DIRECTION:
COMMENTS:						
GENERAL COMMENTS/MAJOR RATED ITEMS						
GENERAL COMMENTS: (BOWDEJ1, 08/14/2008)--(180'-200'-200'-224'-200'-200'-180') CONT PL GDR SPANS						
[ITEM 58] DECK:		6-SATISFACTORY CONDITION	COMMENTS: (HAGEMD1, 08/03/2015)--RATING LOWERED FROM 8 TO 6 DUE TO EXCESSIVE TRANSVERSE CRACKS (3' TO 4' SPACING) WITH EFFLORESCENCE THRU			
RATING :		08/03/2015	OUT ALL SPANS OF THE BRIDGE			
[ITEM 59] SUPER:		6-SATISFACTORY CONDITION	COMMENTS: (RICKEC, 05/30/2023)--SPANS AT FINGER JOINTS WITH MEDIUM PACK RUST AND INTIAL TO MINOR SECTION LOSS			
RATING :		05/30/2023				
[ITEM 60] SUB:		5-FAIR CONDITION	COMMENTS: (NUNNT, 10/02/2020)--MODERATE SPALL BT. 7 AT GDR. 4 BEARING BAD			
RATING :		05/30/2023	(RICKEC, 06/09/2021)--BENT 3 & 6 WITH MANY OPEN VERTICAL CRACKS ON CAP FACE & MEDIUM LEACHING			
			(GEIGEM1, 06/27/2025)--NEOPHRENE BEARINGS TO TILT TO THE MAX AND MASONARY PINS BREAKING OFF IN SEVERAL AREAS ON BENTS 2,6,7			
[ITEM 61] BANK/CHANNEL:		N-NOT APPLIC NO WATRWAY	COMMENTS:			
RATING :		05/02/2006				
[ITEM 113] SCOUR:		N-NOT APPLIC NOT WATERW	COMMENTS:			
RATING :		05/02/2006				
EVALUATION TYPE :						
[ITEM 71] WATERWAY ADEQUACY:		NOT APPLICABLE	COMMENTS:			
RATING :		05/02/2006				
[ITEM 72] APPRRDWY ALIGNMENT:		8-VERYGOOD	COMMENTS:			
RATING :		05/02/2006				
RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS						
[ITEM 36A] BRIDGE RAILING RATING:		MEETS CURRENT STANDARDS-I	RATING :	05/02/2006	COMMENTS:	
<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>			
REINFORCED CONCRETE	SAFETY BARRIER CURB	BOTH				
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>COMMENT</u>		
TRANSVERSE CRACKS	THROUGHOUT		MANY			
[ITEM 36B] TRANSITION RAILING RATING:		MEETS CURRENT STANDARDS-I	RATING :	05/02/2006	COMMENTS:	
<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>			
GALVANIZED STEEL	THRIE BEAM TO W-BEAM	SOUTHWEST				
[ITEM 36C] APPROACH RAILING RATING:		MEETS CURRENT STANDARDS-I	RATING :	05/02/2006	COMMENTS:	
<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>			
GALVANIZED STEEL	W-BEAM	BOTH-SOUTH				
[ITEM 36D] RAIL END TREATMENT RATING:		MEETS CURRENT STANDARDS-I	RATING :	05/02/2006	COMMENTS:	
Design_No = a7024						
Page 2						
This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.						



		Missouri Department of Transportation			July 01, 2025	
		State Bridge Inspection Report			5:40:31AM	
COUNTY: GREENE		DISTRICT: SW	CLASS: STATBR	FED-ID: 31505	BRIDGE: A7024	
SECONDARY DECK PROTECTION		LIQUID SEALANT	INTERNALLY SEALED	2014	STAR MACRO	
<u>COMMENT:</u>						
<u>DRAINAGE COMPONENTS:</u>						
<u>COMPONENT</u>		<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>	
DRAINAGE		GEOTEXTILE FABRIC	VERTICAL DRAIN-END BENT			
DRAINAGE		GALVANIZED STEEL	FLOOR DRAIN		(FODGEC1, 10/22/2009)--SPAN 1,2,6,7	
DRAINAGE		PVC	PIPING SYSTEM		(BRITTT1, 09/17/2014)--INSTALLED BY MODOT UNDER FINGER JTS (GEIGEM1, 10/11/2024)--DIAPER AT GIRDER 1 ONLY	
<u>EXPANSION DEVICE COMPONENTS:</u>						
<u>SUB UNIT-#</u>	<u>SUB LABEL</u>	<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>GAP</u>	<u>YEAR APPLIED</u>
BENT-3		OPEN EXPANSION JOINT	GALVANIZED STEEL	FINGER PLATE		
<u>COMMENT:</u>	(LISTED1, 01/29/2025)--CRACK TOP OF WEB 18" & 12" (GEIGEM1, 06/27/2025)--CRACKED AT TOP OF WEB SOUTH SUPPORT BEAM BETWEEN G2 & G3 (9FT) (GEIGEM1, 06/27/2025)--NO LONGER POUNDING AFTER BOLTED REPAIR OVER CRACKED SUPPORT BEAM IN LATE 2024					
BENT-6		OPEN EXPANSION JOINT	GALVANIZED STEEL	FINGER PLATE		
<u>COMMENT:</u>	(GEIGEM1, 04/29/2020)--REPAIRED BY 7GBM - 5/2015 AND 3/2020 (GEIGEM1, 10/11/2024)--3/4" SHIMS PLACED BETWEEN GIRDER 2 AND FINGER JOINT SUPPORT BEAMS (LISTED1, 01/29/2025)--FINGER PLATE, 6" CRACK IN WELD AT GIRDER 2 SOUTH SIDE (GEIGEM1, 06/27/2025)--3' CRACK AT TOP OF WEB BETWEEN GIRDERS 1&2 NORTH SIDE (GEIGEM1, 06/27/2025)--MINOR HORIZONTAL MISALIGNMENT					
RUSTING	SUPPORT BEAM		MEDIUM			
<u>BANK/SLOPE PROTECTION COMPONENTS:</u>						
<u>COMPONENT</u>		<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>DIRECTION</u>	<u>COMMENTS</u>	
SLOPE PROTECTION		PLAIN CONCRETE	PAVEDSLOPE	BOTH		
DECK COMPONENTS						
<u>SPAN TYPE-#</u>	<u>COMPONENT</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>COMMENTS</u>		
APPROACH SPANS-1	DECK	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
EFFLORESCENCE	THROUGHOUT		LIGHT			
TRANSVERSE CRACKS	THROUGHOUT		MANY			
APPROACH SPANS-2	DECK	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
EFFLORESCENCE	THROUGHOUT		LIGHT			
TRANSVERSE CRACKS	THROUGHOUT		MANY			
MAIN SPANS-3	DECK	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>	<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
EFFLORESCENCE	THROUGHOUT		LIGHT			
TRANSVERSE CRACKS	THROUGHOUT		MANY			
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		Missouri Department of Transportation State Bridge Inspection Report			July 01, 2025 5:40:31AM
COUNTY: GREENE	DISTRICT: SW	CLASS: STATBR	FED-ID: 31505	BRIDGE: A7024	

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MAIN SPANS-4	DECK	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EFFLORESCENCE		THROUGHOUT		LIGHT		
TRANSVERSE CRACKS		THROUGHOUT		FEW		
MAIN SPANS-5	DECK	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EFFLORESCENCE		THROUGHOUT		LIGHT		
TRANSVERSE CRACKS		THROUGHOUT		MANY		
APPROACH SPANS-6	DECK	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EFFLORESCENCE		THROUGHOUT		MEDIUM		
TRANSVERSE CRACKS		THROUGHOUT		MANY		
APPROACH SPANS-7	DECK	REINFORCED CONCRETE	CAST-IN-PLACE			
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>
EFFLORESCENCE		THROUGHOUT		LIGHT		
TRANSVERSE CRACKS		THROUGHOUT		MANY		

SUPERSTRUCTURE COMPONENTS

<u>SERIES TYPE-#</u>	<u>SPAN TYPE</u>	<u>MATERIAL</u>	<u>CONSTRUCTION</u>	<u>LABEL</u>	<u>COMMENTS</u>
APPROACH SERIES-1	CONTINUOUS SPAN	STEEL	PLATE GIRDERS	UNIT 1	
<u>SPAN</u>	<u>COMPOSITE INDICATOR</u>	<u>LENGTH</u>	<u>WEATHERING STEEL</u>	<u>COMMENTS</u>	
APPROACH SPANS-1	COMPOSITE	180 FT 0 IN	NO		
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
APPROACH SPANS-2	COMPOSITE	200 FT 0 IN	NO		
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
RUST		GIRDER ENDS		MEDIUM	
RUSTING		DIAPHRAGMS		MEDIUM	(SHUNAT1, 04/25/2018)--@ BENT 3
SECTION LOSS		GIRDER ENDS		INITIAL	
MAIN SERIES-2	CONTINUOUS SPAN	STEEL	PLATE GIRDERS	UNIT 2	(OCONND, 07/12/2012)--GDR 1 TRIMMED @ BT 6
<u>SPAN</u>	<u>COMPOSITE INDICATOR</u>	<u>LENGTH</u>	<u>WEATHERING STEEL</u>	<u>COMMENTS</u>	
MAIN SPANS-3	COMPOSITE	200 FT 0 IN	NO		
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
PACK RUST		ENDS		MODERATE	(GEIGEM1, 06/27/2025)--AT BT 3
RUST		GIRDER ENDS		MEDIUM	
RUSTING		DIAPHRAGMS		MEDIUM	(SHUNAT1, 04/25/2018)--@ BENT 3
SECTION LOSS		GIRDER ENDS		MINOR	(GEIGEM1, 06/27/2025)--BOTTOM FLANGE AT BT 3
MAIN SPANS-4	COMPOSITE	224 FT 0 IN	NO		
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>
MAIN SPANS-5	COMPOSITE	200 FT 0 IN	NO		
<u>CONDITION</u>		<u>LOCATION 1</u>	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u> <u>COMMENT</u>

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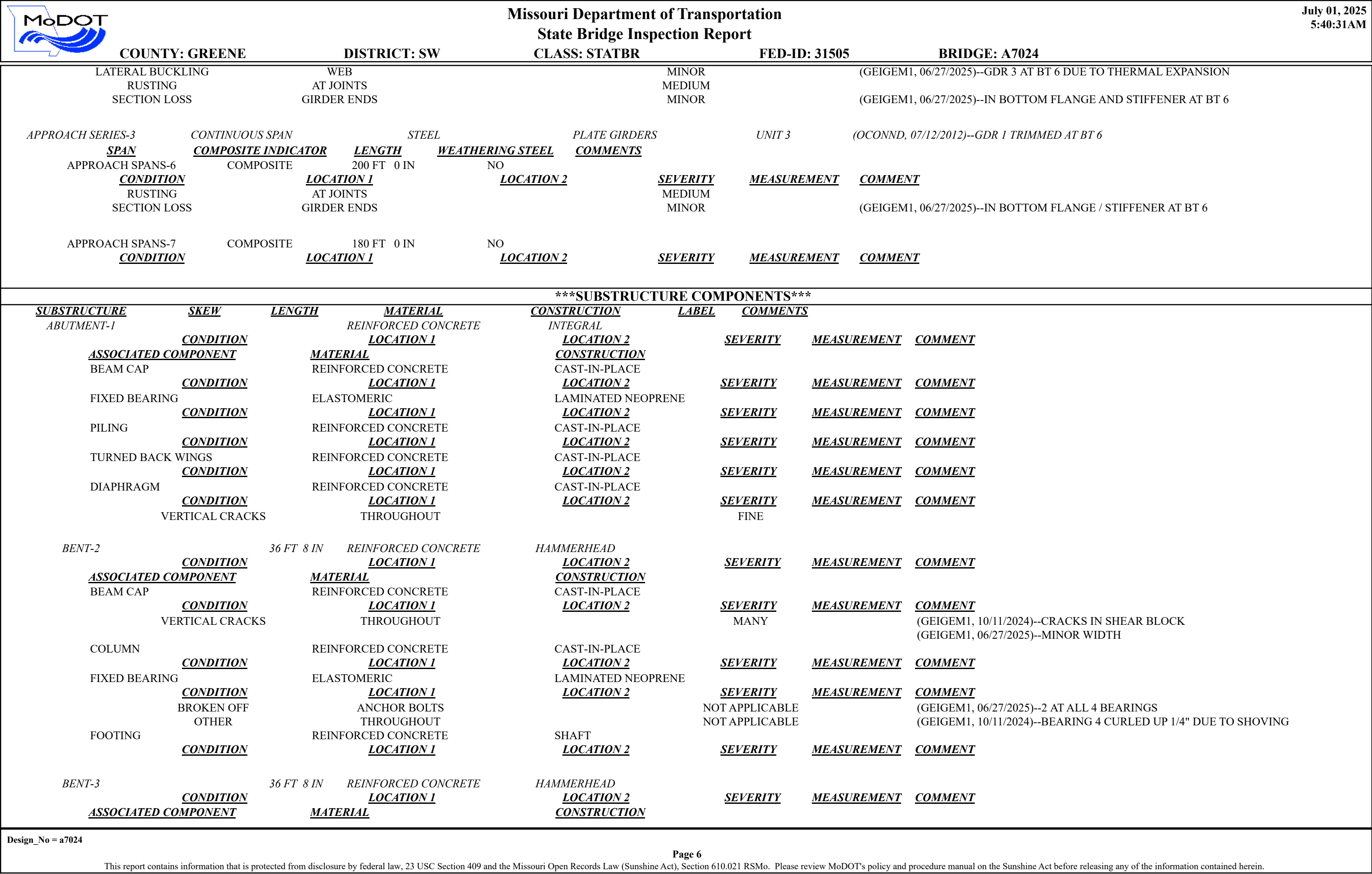
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		State Bridge Inspection Report					5:40:31AM			
COUNTY: GREENE			DISTRICT: SW		CLASS: STATBR		FED-ID: 31505		BRIDGE: A7024	
BEAM CAP			REINFORCED CONCRETE		CAST-IN-PLACE					
<u>CONDITION</u>			<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
SEALED			THROUGHOUT				EPOXY			
VERTICAL CRACKS			THROUGHOUT				LARGE			
EXPANSION BEARING			ELASTOMERIC		LAMINATED NEOPRENE					
<u>CONDITION</u>			<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
OTHER			RANDOM				NOT APPLICABLE		(GEIGEM1, 10/11/2024)--LEANING TO THE NORTH IN SPAN 2 AND MINOR CURLED UP	
RUSTING			SOLE PLATE				MEDIUM			
FOOTING			REINFORCED CONCRETE		SHAFT					
<u>CONDITION</u>			<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
BENT-4			RA-40 DEGREES		48 FT 0 IN		REINFORCED CONCRETE		HAMMERHEAD	
<u>CONDITION</u>			<u>LOCATION 1</u>				<u>LOCATION 2</u>		<u>SEVERITY</u>	
<u>ASSOCIATED COMPONENT</u>			<u>MATERIAL</u>				<u>CONSTRUCTION</u>		<u>MEASUREMENT</u>	
BEAM CAP			REINFORCED CONCRETE		CAST-IN-PLACE					
<u>CONDITION</u>			<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
VERTICAL CRACKS			THROUGHOUT				FEW			
COLUMN			REINFORCED CONCRETE		CAST-IN-PLACE					
<u>CONDITION</u>			<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
FIXED BEARING			ELASTOMERIC		LAMINATED NEOPRENE					
<u>CONDITION</u>			<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
FOOTING			REINFORCED CONCRETE		SHAFT					
<u>CONDITION</u>			<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
BENT-5			36 FT 0 IN		REINFORCED CONCRETE		HAMMERHEAD			
<u>CONDITION</u>			<u>LOCATION 1</u>				<u>LOCATION 2</u>		<u>SEVERITY</u>	
<u>ASSOCIATED COMPONENT</u>			<u>MATERIAL</u>				<u>CONSTRUCTION</u>		<u>MEASUREMENT</u>	
BEAM CAP			REINFORCED CONCRETE		CAST-IN-PLACE					
<u>CONDITION</u>			<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
VERTICAL CRACKS			THROUGHOUT				FEW			
COLUMN			REINFORCED CONCRETE		CAST-IN-PLACE					
<u>CONDITION</u>			<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
FIXED BEARING			ELASTOMERIC		LAMINATED NEOPRENE					
<u>CONDITION</u>			<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
FOOTING			REINFORCED CONCRETE		SHAFT					
<u>CONDITION</u>			<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
BENT-6			36 FT 8 IN		REINFORCED CONCRETE		HAMMERHEAD			
<u>CONDITION</u>			<u>LOCATION 1</u>				<u>LOCATION 2</u>		<u>SEVERITY</u>	
HAIR LINE CRACKING			EDGE				MEDIUM			
<u>ASSOCIATED COMPONENT</u>			<u>MATERIAL</u>				<u>CONSTRUCTION</u>		<u>MEASUREMENT</u>	
BEAM CAP			REINFORCED CONCRETE		CAST-IN-PLACE					
<u>CONDITION</u>			<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
LEACHING			THROUGHOUT				MODERATE			
SEALED			THROUGHOUT				EPOXY			
VERTICAL CRACKS			THROUGHOUT				MEDIUM			
EXPANSION BEARING			ELASTOMERIC		LAMINATED NEOPRENE					
<u>CONDITION</u>			<u>LOCATION 1</u>		<u>LOCATION 2</u>		<u>SEVERITY</u>		<u>MEASUREMENT</u>	
BROKEN OFF			ANCHOR BOLTS				NOT APPLICABLE		(GEIGEM1, 10/11/2024)--1 BROKEN AT BOTH BEARING 3 AND 4	
OTHER			RANDOM				NOT APPLICABLE		(GEIGEM1, 10/11/2024)--HEAVY LEANING OF ALL BEARINGS	


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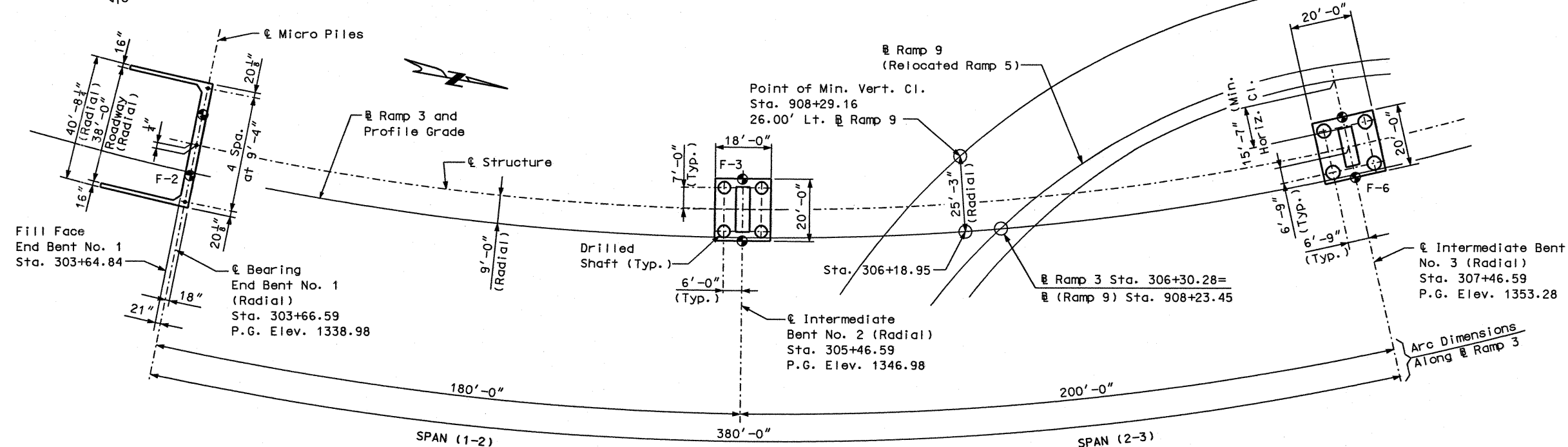
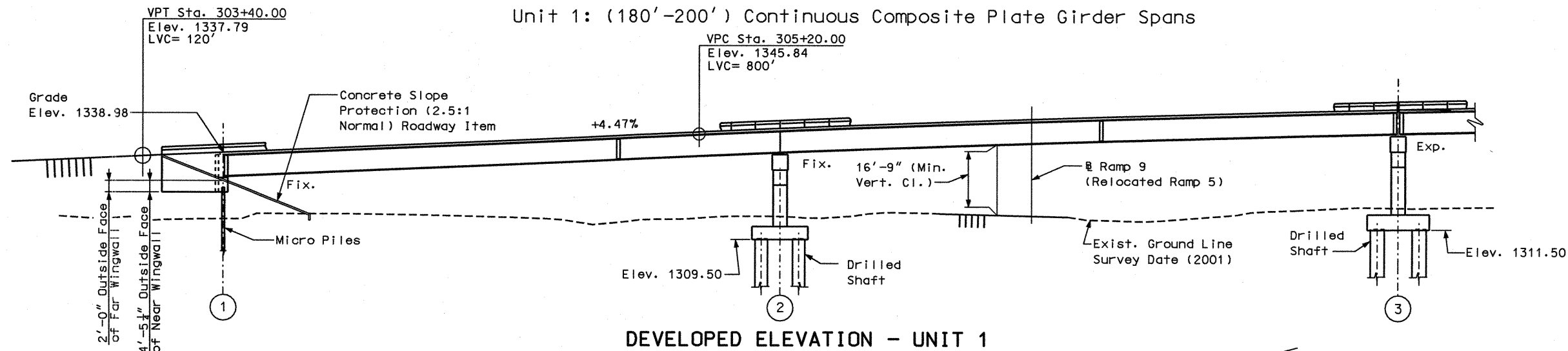
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		State Bridge Inspection Report					5:40:31AM		
COUNTY: GREENE		DISTRICT: SW		CLASS: STATBR		FED-ID: 31505		BRIDGE: A7024	
SPLITTING		THROUGHOUT		HEAVY		(RICKEC, 05/30/2023)--SPAN 7 BEARINGS AT BENT 6 TILTED TO MAX STARTING TO SPLIT AWAY FROM CAP AND SOLE PLATE			
FOOTING	<u>CONDITION</u>	REINFORCED CONCRETE	<u>LOCATION 1</u>	SHAFT	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
COLUMN	<u>CONDITION</u>	REINFORCED CONCRETE	<u>LOCATION 1</u>	CAST-IN-PLACE	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
MAP CRACKS		THROUGHOUT		FINE					
BENT-7	<u>CONDITION</u>	36 FT 8 IN	REINFORCED CONCRETE	HAMMERHEAD	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
<u>ASSOCIATED COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>					
BEAM CAP	<u>CONDITION</u>	REINFORCED CONCRETE	<u>LOCATION 1</u>	CAST-IN-PLACE	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
SPALLS		TOP		LARGE		(GEIGEM1, 10/11/2024)--GIRDER 2 RUBBING INTO SHEAR BLOCK AND CRACKS IN SHEAR BLOCK			
VERTICAL CRACKS		THROUGHOUT		FINE		(GEIGEM1, 10/11/2024)--MINOR BEARING INFLUENCE SPALL UNDER GIRDER 4			
COLUMN	<u>CONDITION</u>	REINFORCED CONCRETE	<u>LOCATION 1</u>	CAST-IN-PLACE	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
FIXED BEARING	<u>CONDITION</u>	ELASTOMERIC	<u>LOCATION 1</u>	LAMINATED NEOPRENE	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
BROKEN OFF		ANCHOR BOLTS		NOT APPLICABLE		(GEIGEM1, 10/11/2024)--2 BROKEN AT BOTH GIRDER 3 & 4			
OTHER		THROUGHOUT		NOT APPLICABLE		(GEIGEM1, 10/11/2024)--BEARINGS HEAVY SHOVING			
FOOTING	<u>CONDITION</u>	REINFORCED CONCRETE	<u>LOCATION 1</u>	SHAFT	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
ABUTMENT-8	<u>CONDITION</u>	40 FT 8 IN	REINFORCED CONCRETE	INTEGRAL	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
<u>ASSOCIATED COMPONENT</u>		<u>MATERIAL</u>		<u>CONSTRUCTION</u>					
BEAM CAP	<u>CONDITION</u>	REINFORCED CONCRETE	<u>LOCATION 1</u>	CAST-IN-PLACE	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
FIXED BEARING	<u>CONDITION</u>	ELASTOMERIC	<u>LOCATION 1</u>	LAMINATED NEOPRENE	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
PILING	<u>CONDITION</u>	REINFORCED CONCRETE	<u>LOCATION 1</u>	CAST-IN-PLACE	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
TURNED BACK WINGS	<u>CONDITION</u>	REINFORCED CONCRETE	<u>LOCATION 1</u>	CAST-IN-PLACE	<u>LOCATION 2</u>	<u>SEVERITY</u>	<u>MEASUREMENT</u>	<u>COMMENT</u>	
OVER/UNDER ROUTES CLEARANCE INFORMATION									
<u>CLEARANCES OVER DECK</u>		**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.							
<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>					

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COUNTY: GREENE		DISTRICT: SW		CLASS: STATBR		FED-ID: 31505	
				BRIDGE: A7024			
<u>CLEARANCES UNDER BRIDGE</u>		**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.					
<u>RECORD #</u>	<u>ROUTE</u>	<u># LANES</u>	<u>DIRECTION OF TRAFFIC</u>	<u>RIGHT LATERAL CLEARANCE</u>	<u>LEFT LATERAL CLEARANCE</u>	<u>UR-ID</u>	
1	RP IS44E TO US65N N	1	1-WAY TRAF		15 FT 7 IN	98165	
	<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>		
	ACTUAL	17 FT 3 IN		02/11/2008			
	PLANNED	16 FT 9 IN	LEFT				
<u>RECORD #</u>	<u>ROUTE</u>	<u># LANES</u>	<u>DIRECTION OF TRAFFIC</u>	<u>RIGHT LATERAL CLEARANCE</u>	<u>LEFT LATERAL CLEARANCE</u>	<u>UR-ID</u>	
2	US 65 N	3	1-WAY TRAF		8 FT 5 IN	98167	
	<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>		
	ACTUAL	17 FT 6 IN		12/23/2020			
	PLANNED	17 FT 3 IN	RIGHT				
<u>RECORD #</u>	<u>ROUTE</u>	<u># LANES</u>	<u>DIRECTION OF TRAFFIC</u>	<u>RIGHT LATERAL CLEARANCE</u>	<u>LEFT LATERAL CLEARANCE</u>	<u>UR-ID</u>	
3	US 65 S	3	1-WAY TRAF		16 FT 6 IN	98168	
	<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>		
	ACTUAL	17 FT 0 IN		12/23/2020			
	PLANNED	16 FT 10 IN	RIGHT				
<u>RECORD #</u>	<u>ROUTE</u>	<u># LANES</u>	<u>DIRECTION OF TRAFFIC</u>	<u>RIGHT LATERAL CLEARANCE</u>	<u>LEFT LATERAL CLEARANCE</u>	<u>UR-ID</u>	
4	IS 44 W	3	1-WAY TRAF		12 FT 4 IN	98169	
	<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>		
	ACTUAL	29 FT 5 IN		12/23/2020			
<u>RECORD #</u>	<u>ROUTE</u>	<u># LANES</u>	<u>DIRECTION OF TRAFFIC</u>	<u>RIGHT LATERAL CLEARANCE</u>	<u>LEFT LATERAL CLEARANCE</u>	<u>UR-ID</u>	
5	IS 44 E	3	1-WAY TRAF		12 FT 4 IN	98170	
	<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>		
	ACTUAL	34 FT 8 IN		12/23/2020			
<u>RECORD #</u>	<u>ROUTE</u>	<u># LANES</u>	<u>DIRECTION OF TRAFFIC</u>	<u>RIGHT LATERAL CLEARANCE</u>	<u>LEFT LATERAL CLEARANCE</u>	<u>UR-ID</u>	
6	RP IS44W TO US65S S	1	1-WAY TRAF		12 FT 0 IN	98171	
	<u>VERTICAL CLEARANCE TYPE**</u>	<u>VALUE</u>	<u>DIRECTION</u>	<u>DATE</u>	<u>COMMENT</u>		
	ACTUAL	20 FT 2 IN		02/11/2008			
STRUCTURE PAINT INFORMATION							
CONDITION: GOOD		RUST AMOUNT : 9=.03% OF SURFACE RUSTED		STEEL TONS : 1,383			
<u>ORIGINAL PAINT</u>		<u>CONTRACT REPAINT</u>		<u>DEPARTMENT REPAINT</u>			
PAINT TYPE : G SYSTEM		PAINT TYPE :		PAINT TYPE :		MANUFACTURE :	
NAME : ZINC/EPOXY/ACRYLIC		NAME :		NAME :		SURFACE PREP :	
PAINT COLOR : GRAY		PAINT COLOR :		PAINT COLOR :			
PAINT YEAR : 2007		PAINT YEAR :		PAINT YEAR :			
MILS : 7		MILS :		MILS :			
REQUESTED WORK ITEMS							
GENERAL WORK COMMENTS:							
<i>RESPONSIBILITY</i>	<i>LOCATION</i>	<i>ITEM</i>	<i>CATEGORY</i>	<i>PRIORITY</i>	<i>DATE</i>	<i>WORK ITEM COMMENT</i>	
REGIONAL	SEE COMMENT	REPAIR BEAM CAP	SUBSTRUCTURE	3	06/20/2019	(SHUNAT1, 04/25/2018)--BENT 7 GIRDER 4	
REGIONAL	BENT-CAPS	CLEAN AND SEAL	SUBSTRUCTURE	3	06/20/2019	(WEAVER1, 06/20/2019)--SEAL BEAMCAPS @ BENTS 3 & 6	
REGIONAL	BENT	MISCELLANEOUS	EXPANSION DEVICE	2	06/09/2021	(RICKEC, 05/30/2023)--GIRDER ENDS WITH MEDIUM PACK RUST AND INTIAL SECTION LOSS NOW	
						(GEIGEM1, 08/09/2024)--BENT 3 & 6 FINGER JOINT NEEDS FULL DIAPER PLACEMENT UNDER JOINTS	
REGIONAL	SEE COMMENT	REPAIR BEAM CAP	SUBSTRUCTURE	3	06/09/2021	(RICKEC, 06/09/2021)--BENT 3 & 6 WITH MANY OPEN VERTICAL CRACKS NEEDS EPOXY INJECTED INTO CRACKS	
REGIONAL	BENT-CAPS	RESET NEOPRENE BRG PADS	SUBSTRUCTURE	2	05/30/2023	(RICKEC, 05/30/2023)--BENT 7 GIRDERS 3 & 4 NEOPHRENE BEARINGS MISSING 4 MASONARY PINS	
STIP		SHOTBLAST AND PAINT	PAINT		04/10/2024	(GEIGEM1, 04/11/2022)--2029 - MAJOR BRIDGE - SYSTEM G AT EXPANSION JOINTS	
STIP			STRUCTURAL REPAIR		04/10/2024	(GEIGEM1, 06/27/2025)--2027 - MAJOR BRIDGE - REPLACE BEARINGS, REPAIR & MODIFY BENT CAPS, REPLACE EXP JTS & SUPPORT BEAMS	
Design_No = a7024							
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This report contains information that is protected from disclosure by federal law, 23 USC Section 409 and the Missouri Open Records Law (Sunshine Act), Section 610.021 RSMo. Please review MoDOT's policy and procedure manual on the Sunshine Act before releasing any of the information contained herein.							

		Missouri Department of Transportation				July 01, 2025																																										
		State Bridge Inspection Report				5:40:31AM																																										
COUNTY: GREENE		DISTRICT: SW		CLASS: STATBR		FED-ID: 31505																																										
						BRIDGE: A7024																																										
REGIONAL	BENT	REPAIR EXPANSION DEVICE	EXPANSION DEVICE	2	10/10/2024	(GEIGEM1, 10/11/2024)--REPAIR CRACKED WELD IN BT 3 FINGER SOUTH SUPPORT BEAM AND BENT 6 WEST SUPPORT BEAM																																										
UTILITY ATTACHMENTS																																																
UTILITY ELECTRIC	OWNER	METHOD ENCASED	MEASUREMENT TYPE DIAMETER	VALUE 4 IN	NUMBER 1	UTILITY ATTACHMENT COMMENT																																										
PROGRAM NOTES INFORMATION																																																
YEAR 2018	PROJECT # J8P3111	MONTH LET 1	YEAR LET 2018	ITEMS		COMMENT (GEIGEM1, 04/29/2020)--TRANSPO T-70/MX-30, HIGH MOLECULAR WEIGHT METHACRYLATE (HMWM) CRACK SEALER																																										
COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS					***ADVANCED SIGN INFORMATION***																																											
<div>NOTE: The items listed in this section are updated whenever computer edits are ran on a structure after the inspection updates have been entered in to TMS.</div> <table><thead><tr><th>Rated Item</th><th>Rating</th><th>Rating Date</th></tr></thead><tbody><tr><td>[Item 67] Structure Evaluation Rating:</td><td>5-BETTER THAN MINIMUM</td><td>5/31/2023</td></tr><tr><td>[Item 68] Deck Geometry Rating:</td><td>9-SUPR TO PRES DESIRABLE</td><td>5/3/2006</td></tr><tr><td>[Item 69] Underclearance:</td><td>N-NOT APPLICABLE</td><td>5/3/2006</td></tr><tr><td>Sufficiency Rating:</td><td>87.0%</td><td>3/6/2024</td></tr><tr><td>Deficiency:</td><td>NOT DEFICIENT</td><td>5/3/2006</td></tr><tr><td>Funding Eligibility:</td><td></td><td>----</td></tr><tr><td>Estimated New Structure Length:</td><td></td><td>----</td></tr><tr><td>Estimated Structure Cost:</td><td></td><td>----</td></tr><tr><td>Estimated Total Project Cost:</td><td></td><td>----</td></tr><tr><td>Year of Cost Estimate:</td><td></td><td>----</td></tr></tbody></table> <div>NOTE: The above structure length and cost estimates are computer generated using algorithms in the TMS system. These algorithms are generalized to use NBI items to come up with a new structure length and width to calculate a new area which is taken times a representative cost per square foot. The actual structure size and cost may vary significantly from these numbers once site specific engineering is done.</div>					Rated Item	Rating	Rating Date	[Item 67] Structure Evaluation Rating:	5-BETTER THAN MINIMUM	5/31/2023	[Item 68] Deck Geometry Rating:	9-SUPR TO PRES DESIRABLE	5/3/2006	[Item 69] Underclearance:	N-NOT APPLICABLE	5/3/2006	Sufficiency Rating:	87.0%	3/6/2024	Deficiency:	NOT DEFICIENT	5/3/2006	Funding Eligibility:		----	Estimated New Structure Length:		----	Estimated Structure Cost:		----	Estimated Total Project Cost:		----	Year of Cost Estimate:		----	<table><thead><tr><th>SIGN #</th><th>SIGN TYPE</th><th>PROBLEM</th><th>PROBLEM DIRECTION</th></tr></thead><tbody><tr><td>1</td><td></td><td></td><td></td></tr></tbody></table>			SIGN #	SIGN TYPE	PROBLEM	PROBLEM DIRECTION	1			
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STATUS:	DATE:																																															
NOTES:																																																

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
Unit 1: (180'-200') Continuous Composite Plate Girder Spans

STATE	PROJ. NO.	SHEET NO.
MO		81
SEC./SUR. 3/4 TWP. 29N RGE. 21W		



"⊕" indicates location of Borings.

Notice and Disclaimer Regarding Boring Log Data.

The locations of all subsurface borings for this structure are shown on the bridge plan sheet for this structure. Boring data for the numbered locations is shown on sheet Nos. 6 thru 8. The boring data for all locations indicated, as well as any other boring logs or other factual records of subsurface data and investigations performed by the department for the design of the project, is available from the Project Contact upon written request as outlined in the Project Special Provisions. No greater significance or weight should be given to the boring data depicted on the plan sheets than is subsurface data available from the district or elsewhere.

The Commission does not represent or warrant that any such boring data accurately depicts the conditions to be encountered in constructing this project. A Contractor assumes all risks it may encounter in basing its bid prices, time or schedule of performance on the boring data depicted here or those available from the district, or on any other documentation not expressly warranted, which the Contractor may obtain from the Commission.

DETAILED: GJD JULY 2005
CHECKED: JEF DEC. 2005

JACOBS CIVIL INC.
ST. LOUIS, MO.

For General Notes, Estimated Quantities, Estimated Quantities for Slab on Steel and Footing data, see Sheet No. 5.

Intermediate Bent No. 4 skewed 40°-00'-00" to a radial line at Sta. 309+46.59. All remaining Bents radial. For Location Sketch, see Sheet No. 2.

Roadway fill shall be completed to the final roadway section and up to the elevation of the bottom of the concrete approach beam within the limits of the structure and for not less than 25 feet in back of the fill face of the end bents before any piles are driven for any bents falling within the embankment section.

CURVE DATA - RAMP 3

P.I. STA. = 313+93.26
P.C. STA. = 301+86.46
P.T. STA. = 318+32.80
Δ = 6°-35'-08.6" (LT.)
D = 6°-35'-08.6"
L = 1,646.34'
T = 1,206.80'
R = 870.00'
S.E. = 0.06 1/1

BENCH MARK - U.S.G.S. DATUM

BM #4 CHISELED SQUARE ON NORTH SIDE OF D.I. IN MEDIAN
I-44 STATION 1326+00 ELEV. 1303.46

BRIDGE OVER RAMP 9 ROUTE 65 AND I-44

STATE ROAD FROM RTE. 744 TO RTE. C

ABOUT 0.8 MILES NORTH OF RTE. 744

PROJECT NO.

JOB NO. J8U0548B

STA. 303+64.84
(RAMP 3)
RTE. 65

STD. 706.35
STD. 617.10
STD. 611.60
STD. 609.00

A7024

SHEET NO. 1 OF 77

GREENE COUNTY

DATE: 2/6/06

P:\c1x21400\700cadd\709str\A7024 Ramp 3\A7024_GPE01_J8U0548B.dgn

18:48 01-FEB-2006



2/1/06

STATE	PROJ. NO.	SHEET NO.
MO		B2

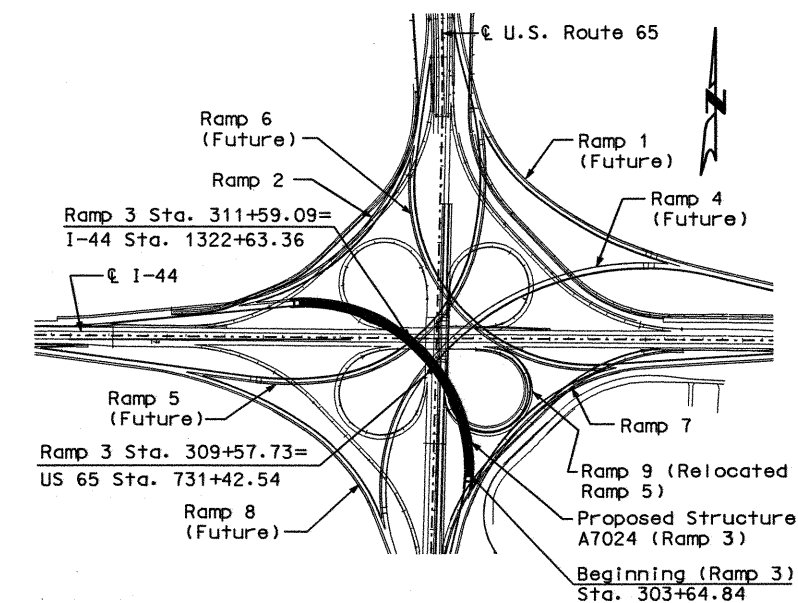


P.I. STA. = 313+93.26
P.C. STA. = 301+86.46
P.T. STA. = 318+32.80
 $\Delta = 6^{\circ}-35'-08.6''$ (LT.)
 $D = 6^{\circ}-35'-08.6''$
 $L = 1,646.34'$
 $T = 1,206.80'$
 $R = 870.00'$
 $S.E. = 0.06'/'$

" " indicates location of Borings.

For General Notes, Estimated Quantities, Estimated Quantities
for Slab on Steel and Footing data, see Sheet No. 5.

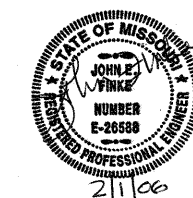
Intermediate Bent No. 4 skewed 40°-00'-00" to a radial line at Sta. 309+46.59. All remaining Bents radial.



LOCATION SKETCH

Notes:

For Notice and Disclaimer Regarding Boring
Log Data, see Sheet No. 1.

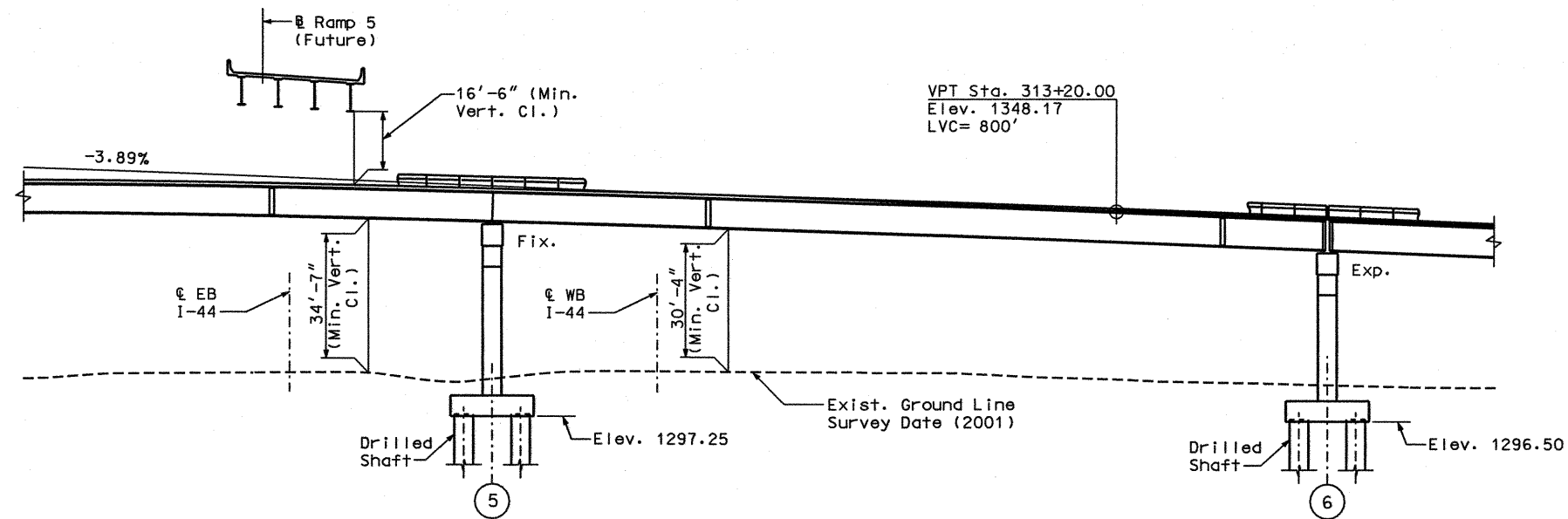


Unit 2: (200'-224'-200') Continuous Composite Plate Girder Spans

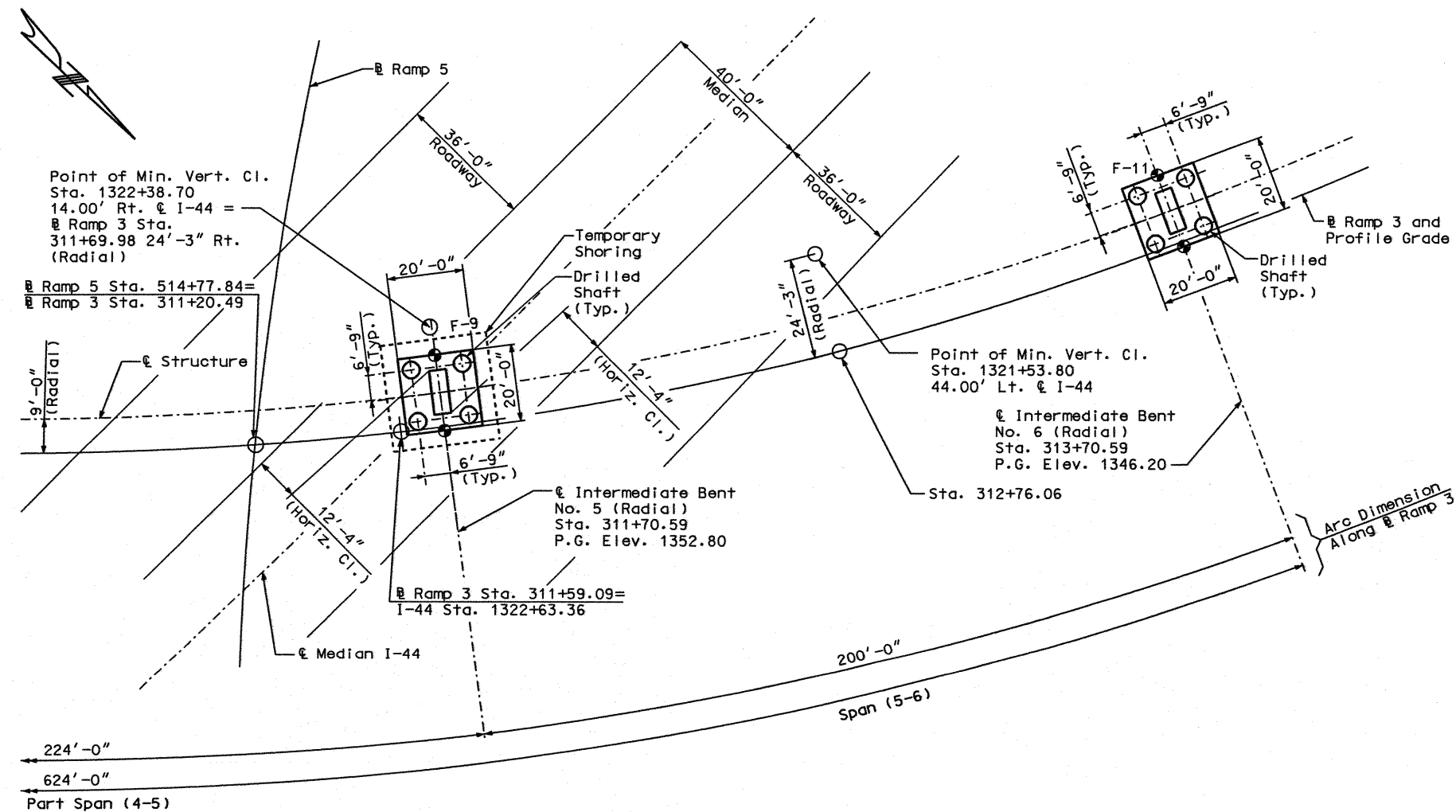
STATE	PROJ. NO.	SHEET NO.
MO		33

CURVE DATA - RAMP 3

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P.T. STA. = 318+32.80
 $\Delta = 6^{\circ}-35'-08.6''$ (LT.)
 $D = 6^{\circ}-35'-08.6''$
 $L = 1,646.34'$
 $T = 1,206.80'$
 $R = 870.00'$
 $S.E. = 0.06'/'$



PART DEVELOPED ELEVATION - UNIT 2



PART PLAN - UNIT 2

"⊙" indicates location of Borings.

For General Notes, Estimated Quantities, Estimated Quantities for Slab on Steel and Footing data, see Sheet No. 5.

Intermediate Bent No. 4 skewed $40^{\circ}-00'-00''$ to a radial line at Sta. 309+46.59. All remaining Bents radial. For location sketch, see Sheet No. 2.

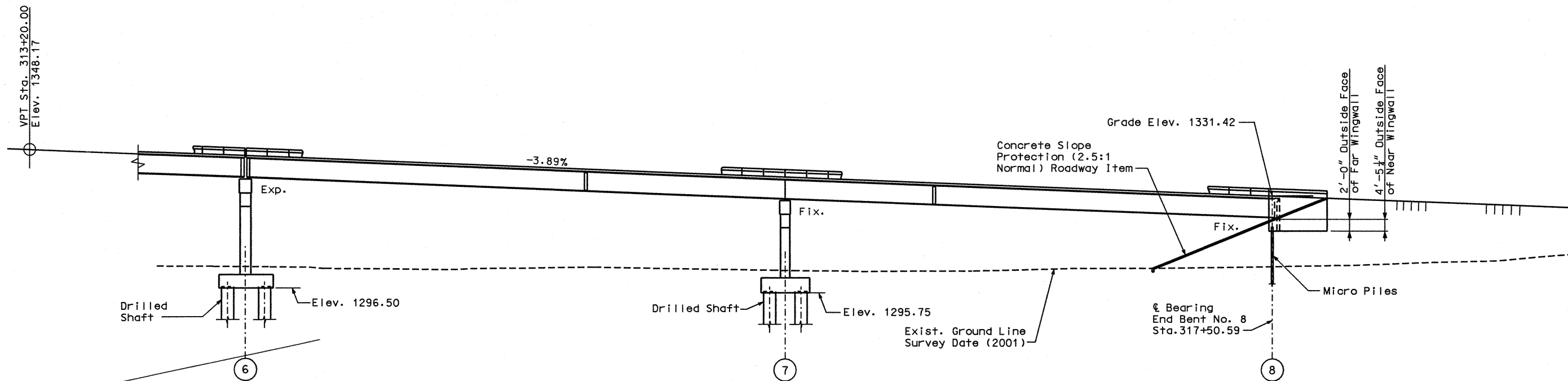
Notes:

For Notice and Disclaimer Regarding Boring Log Data, see Sheet No. 1.

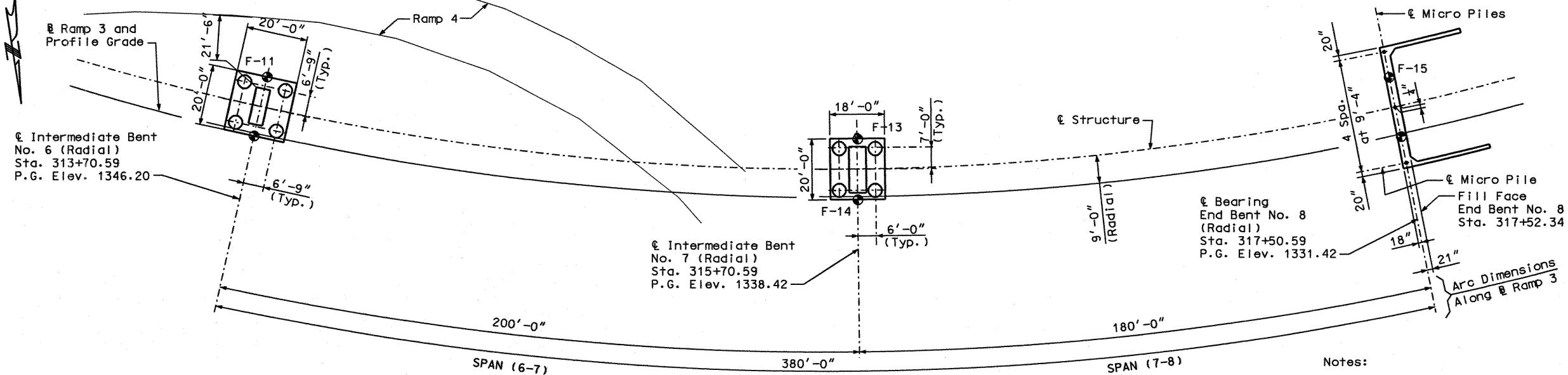


Unit 3: (200'-180') Continuous Composite Plate Girder Spans

STATE	PROJ. NO.	SHEET NO.
MO		B4



DEVELOPED ELEVATION - UNIT 3



PLAN - UNIT 3

CURVE DATA - RAMP 3

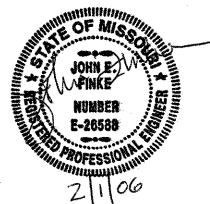
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 $D = 60^\circ-35'-08.6''$
 $L = 1,646.34'$
 $T = 1,206.80'$
 $R = 870.00'$
 $S.E. = 0.06 \text{ '/'}$

Notes:

For Notice and Disclaimer Regarding Boring Log Data, see Sheet No. 1.

For General Notes, Estimated Quantities, Estimated Quantities for Slab on Steel and Footing data, see Sheet No. 5.

Intermediate Bent No. 4 skewed $40^\circ-00'-00''$ to a radial line at Sta. 309+46.59. All remaining Bents radial. For Location Sketch, see Sheet No. 2.



Estimated Quantities				
Item		Substr.	Superstr.	Total
Class 1 Excavation	cu. yard	1,030		1,030
Temporary Shoring	lump sum	1		1
Bridge Approach Slab (Bridge)	square yard		226	226
Drilled Shafts (4 ft. 0 in. Dia.)	linear foot	195.4		195.4
Drilled Shafts (4 ft. 6 in. Dia.)	linear foot	431.6		431.6
Rock Sockets (3 ft. 6 in. Dia.)	linear foot	128		128
Rock Sockets (4 ft. 0 in. Dia.)	linear foot	268		268
Supplemental Television Camera Inspection	each	24		24
Foundation Inspection Holes	linear foot	636		636
Concrete Coring	linear foot	257.5		257.5
Sonic Logging Testing	Each	24		24
Micro Piles (9.625 in.)	each	10		10
Loading Tests	each	2		2
Class B Concrete (Substructure)	cu. yard	1,239.4		1,239.4
Slab on Steel	square yard		6254	6254
* Safety Barrier Curb	linear foot		2820	2820
Form Liners	square yard	224		224
Reinforcing Steel (Bridges)	pound	362,210		362,210
Conduit System on Structure	lump sum		1	1
Reinforcing Steel (Epoxy Coated)	pound	21,990		21,990
Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum	1		1
Expansion Device (Finger Plate)	linear foot		76	76
Fabricated Structural Low Alloy Steel (Plate Girder) A709, Grade 50	pound		2,765,000	2,765,000
Slab Drain	each		38	38
Intermediate Field Coat (System G)	square foot		149,000	149,000
Finish Field Coat (System G)	square foot		22,900	22,900
Vertical Drain at End Bents	each	2		2
Laminated Neoprene Bearing Pad (Tapered)	each		8	8
Laminated Neoprene Bearing Pad Assembly	each		32	32

All concrete between the upper and lower construction joints in the end bents is included in the Estimated Quantities for Slab on Steel.

All reinforcement in the end bents is included in the Estimated Quantities for Slab on Steel.

* Safety barrier curb shall be cast-in-place option or slip-form option.

Estimated Quantities for Slab on Steel		
Item		Total
Class B-2 Concrete	cu. yard	1,825.7
Reinforcing Steel (Epoxy Coated)	pound	481,860
Reinforcing Steel (Bridges)	pound	19,050

The table of Estimated Quantities for Slab on Steel represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard with the horizontal dimensions as shown on the plan of slab. Payment for conventional forms, all concrete and coated and uncoated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

Method of forming the slabs shall be as shown on the plans and in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II, or III.

Pile Data				
Bent No.		1	8	
Bearing Pile	Pile Type & Size	Micro Pile (9.625 in.)	Micro Pile (9.625 in.)	
	Number	5	5	
	Approximate Length	ft. 29	67	
	Design Bearing	tons 138	138	

For Micro Pile details, see Sheet No. 33.

For Details of Drilled. Shaft see Sheet No. 32.

General Notes:

Design Specifications:
 2002 - AASHTO 17th Edition
 Load Factor Design
 Seismic Performance Category A
 Acceleration Coefficient = 0.05

Design Loading:
 HS20 Modified
 35#/Sq. Ft. Future Wearing Surface
 Military 24,000# Tandem Axle
 Earth 120#/Cu. Ft., Equivalent Fluid
 Pressure 45#/Cu. Ft.
 Fatigue Stress - Case I
 Superstructure: Continuous composite for live-load.

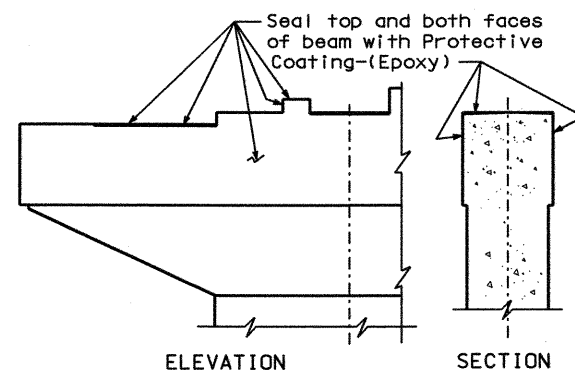
Design Unit Stresses:
 Class B Concrete (Substructure) f'c = 3,000 psi
 Class B-2 Concrete (Superstructure, except Safety Barrier Curb) f'c = 4,000 psi
 Class B-1 Concrete (Safety Barrier Curb) f'c = 4,000 psi
 Grout Strength f'c = 5000 psi
 Reinforcing Steel (Grade 60) fy = 60,000 psi
 Structural Steel Low Alloy (ASTM A709 Grade 50) fy = 50,000 psi
 Steel Pile (ASTM A709 Grade 36) fb = 9,000 psi
 fy = 36,000 psi

Neoprene Pads:
 Bearings shall be 60 durometer neoprene pads.
 Laminated Neoprene Bearing Pads (Tapered) shall be in accordance with Sec 716.

Fabricated Steel Connections:
 Field connections shall be made with 7/8" diameter high strength bolts and 15/16" diameter holes, except as noted.

Joint Filler:
 All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:
 Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.



PROTECTIVE COATING
 INTERMEDIATE BENT NOS. 3 AND 6
 Note: Slope beam cap to drain between bearings.

STATE	PROJ. NO.	SHEET NO.
MO		B5

Structural Steel Protective Coatings:
 Protective Coating: System G in accordance with Sec 1081.

Prime Coat: The cost of the prime coat will be considered completely covered by the contract unit price for the "Fabricated Structural Steel".
 Tint of the prime coat for System G shall be similar to the color of the field coat to be used.

Field Coat: The color of the finish field coat shall be Gray (Federal Standard #26373). The cost of the intermediate field coat will be considered completely covered by the contract unit price per sq. foot for "Intermediate Field Coat (System G)". The cost of the finish field coat will be considered completely covered by the contract unit price per sq. foot for "Finish Field Coat (System G)".

At the option of the contractor, the intermediate and finish field coats may be applied in the shop. The contractor shall exercise extreme care during all phases of loading, hauling, handling, erection and pouring of the slab to minimize damage and shall be fully responsible for all repairs and cleaning of the coating systems as required by the engineer.

Traffic Handling:
 See Roadway Plans. No staging on this structure.

Concrete Protective Coatings:
 Protective coating for concrete bents (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.

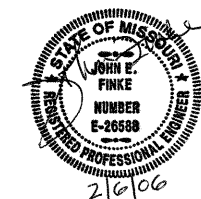
Miscellaneous:
 A minimum vertical clearance of 14'-6" over Route 65 and a minimum horizontal clearance of 5'-3" from the edge of the traffic lanes of Route 65. Existing Ramps 4 and 9 and I-44 shall be maintained during construction.

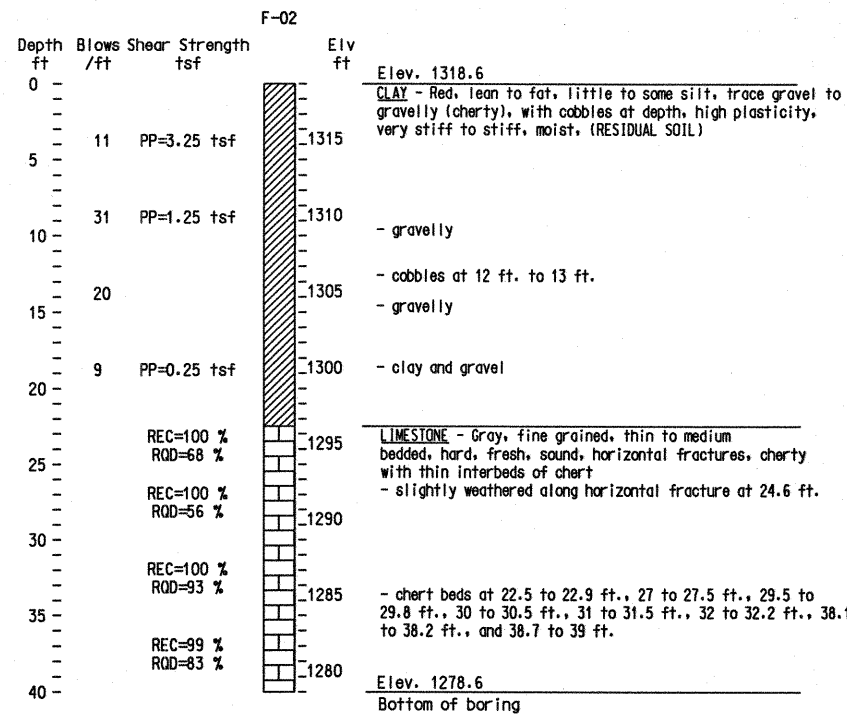
High strength bolts, nuts and washers will be sampled for quality assurance as specified in Sec 106 and Field Section (FS-712) from Materials Manual.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

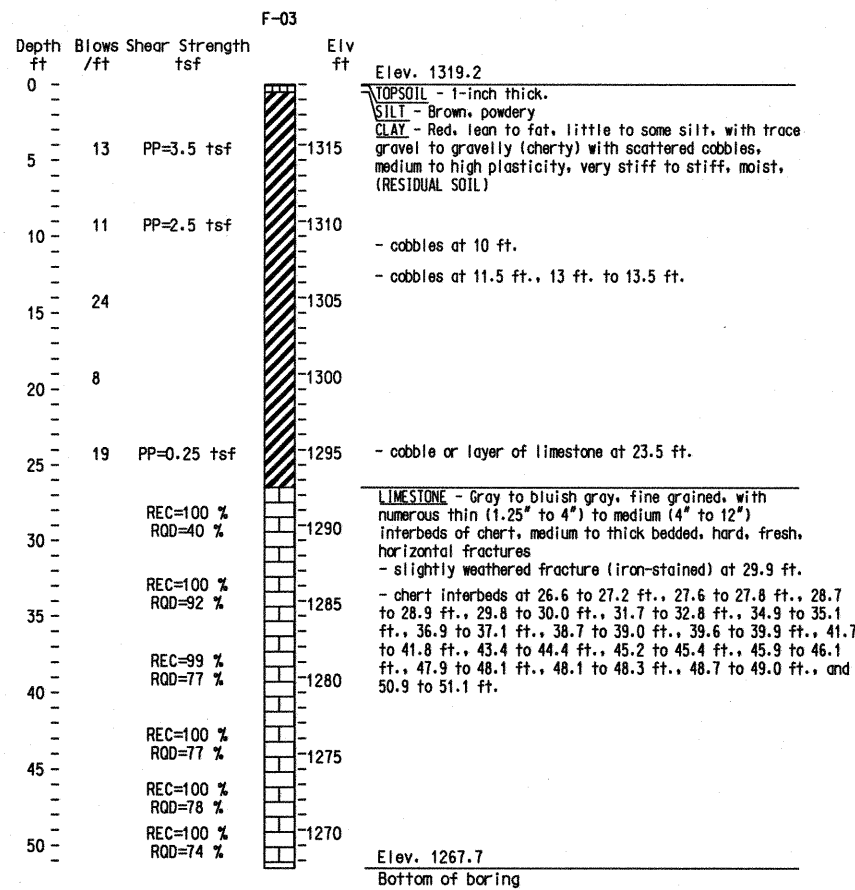
Erection:
 During erection, the contractor shall temporarily support, anchor and brace primary members such as girders in a manner that will produce alignment and camber in the completed structure. The contractor shall install cross frames and diagonal bracing as necessary to provide stability and assure correct geometry. The contractor shall provide temporary bracing or stiffening devices if necessary during any stage of erection. Wind loads shall be included in the design of such bracing members. The contractor shall support, anchor and brace all erected superstructure members as detailed in the Erection Plan before allowing traffic under the bridge.

Design temporary supports and falsework in accordance with the current edition of the AASHTO Bridge Construction Specifications, Section 3 "Temporary Works."

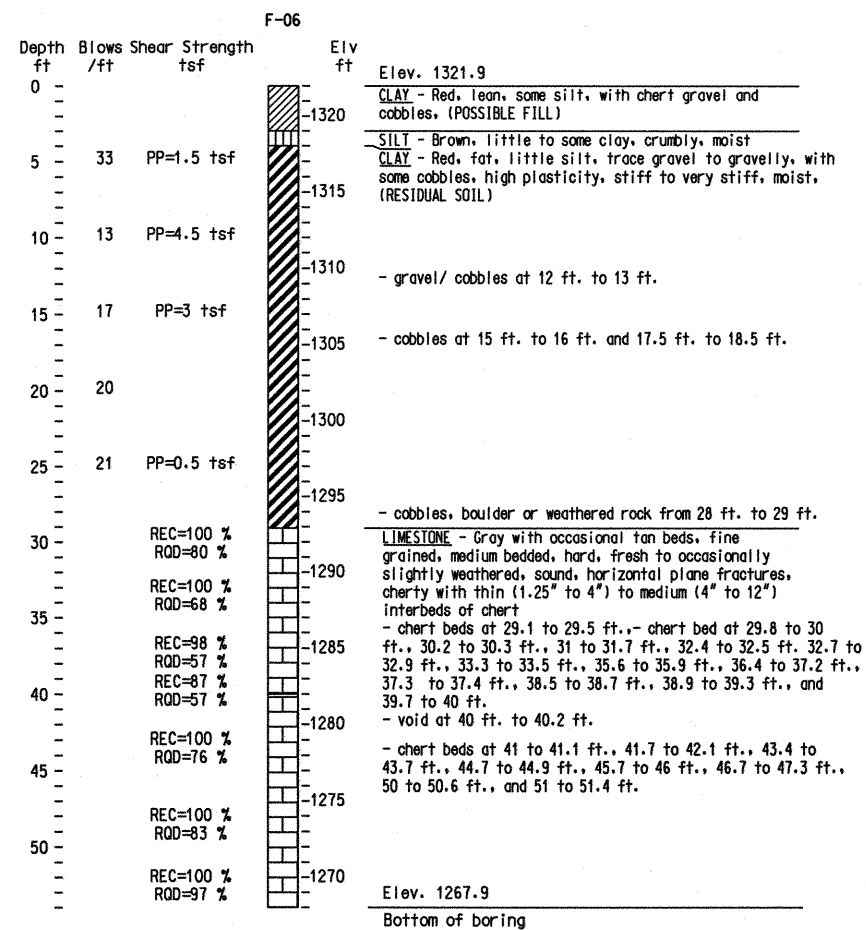




F-02
(CORE)
1' Rt.



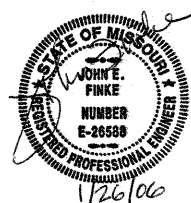
F-03
(CORE)
19' Lt.



F-06
(CORE)
1' Rt.

Note:
For Notice and Disclaimer Regarding Boring Log Data,
see Sheet No. 1.

For Location of Borings see, Sheet Nos. 1 thru 4.



BORING DATA

DETAILED: GJD JULY 2005
CHECKED: BJE OCT. 2005

JACOBS CIVIL INC.
ST. LOUIS, MO.

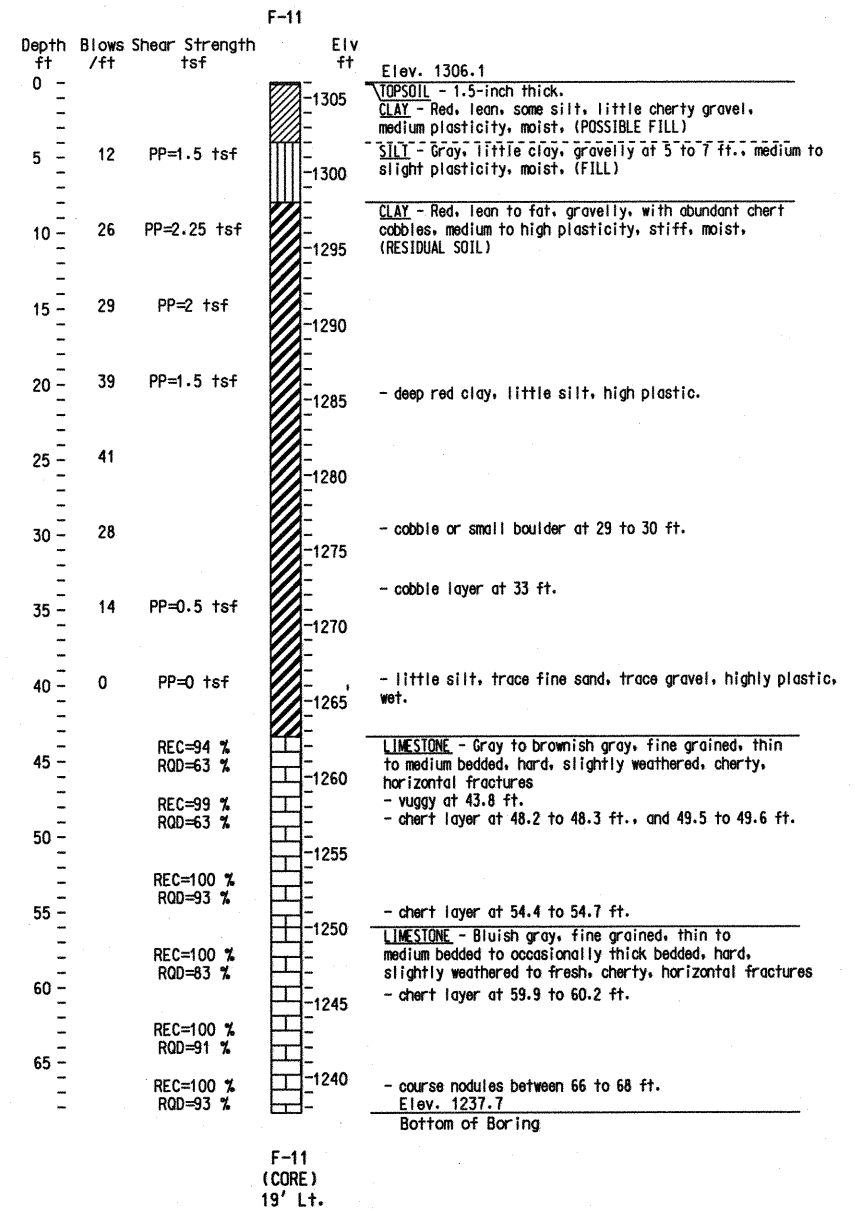
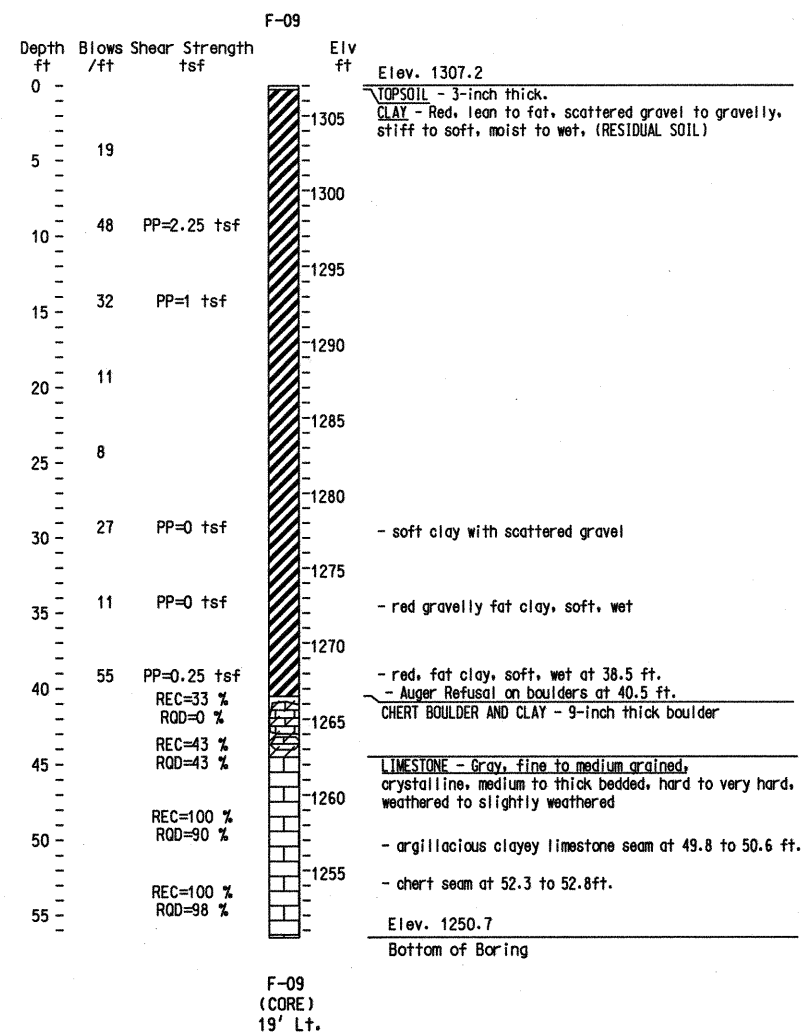
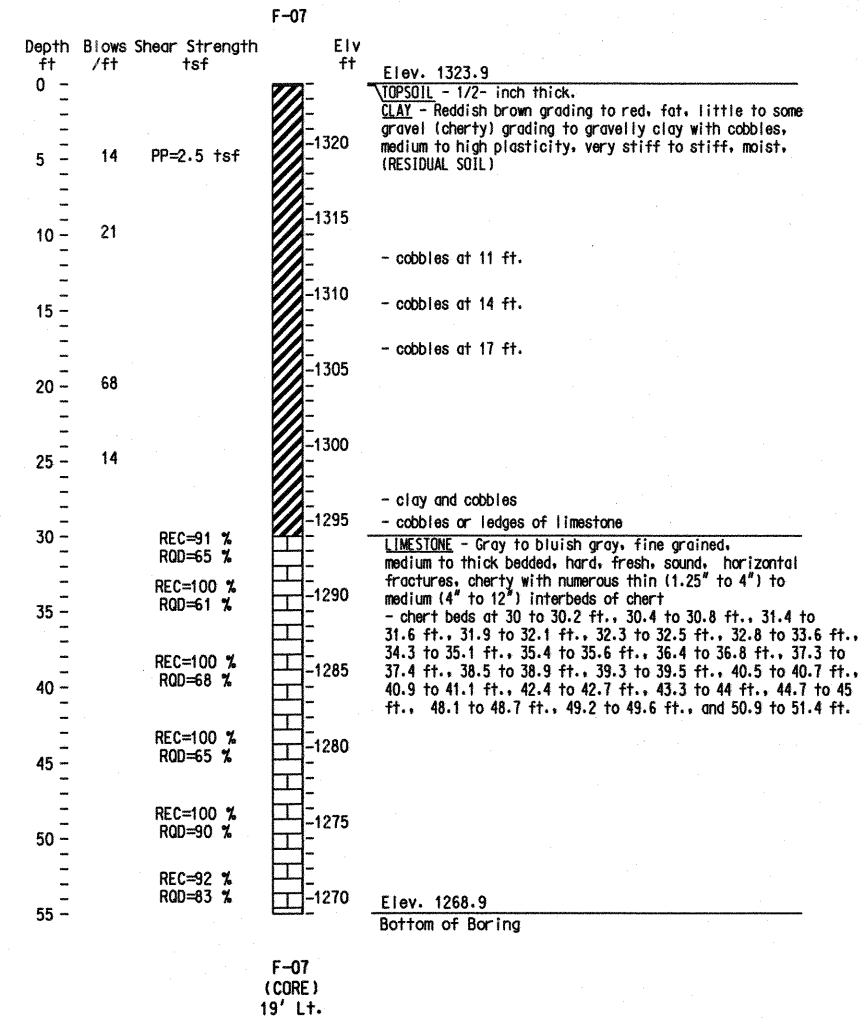
SHEET NO. 6 OF 77

GREENE COUNTY

A7024

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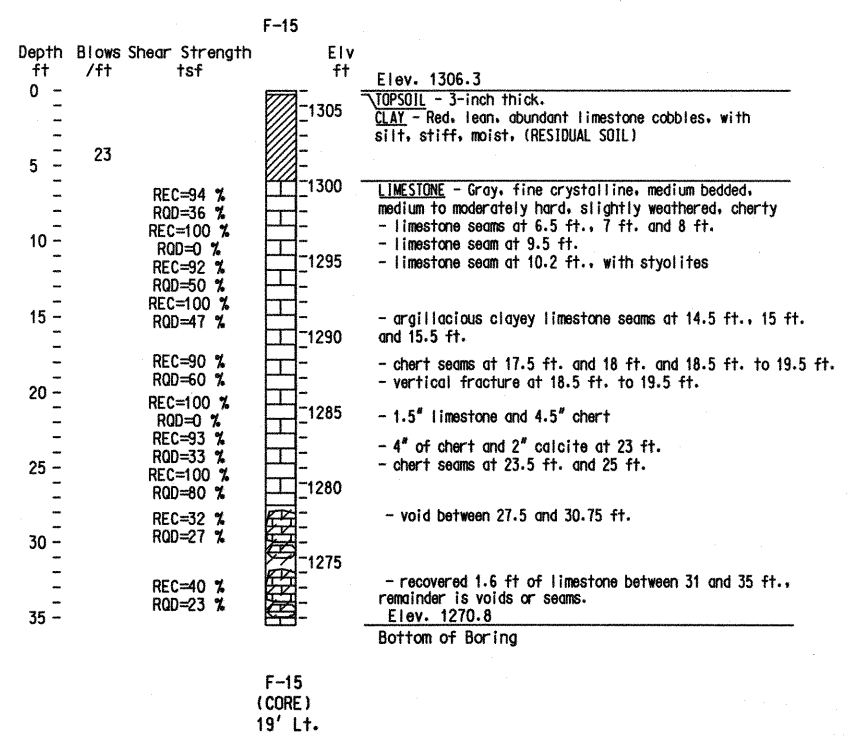
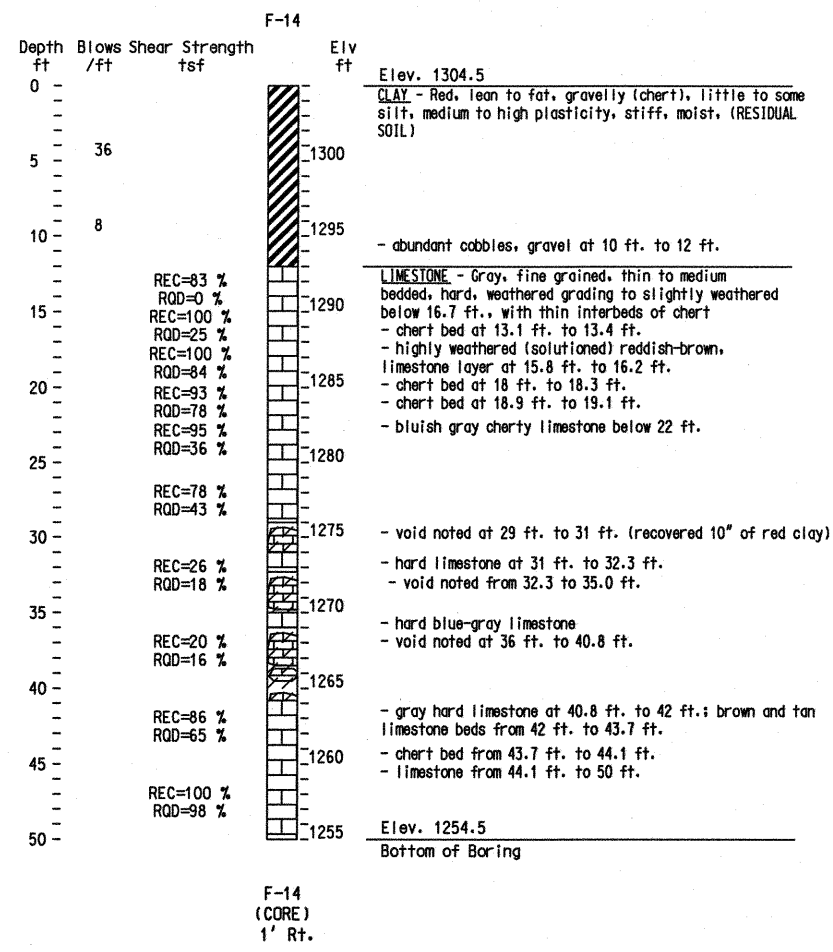


Note:
For Notice and Disclaimer Regarding Boring Log Data,
see Sheet No. 1.

For Location of Borings, see Sheet Nos. 1 thru 4.

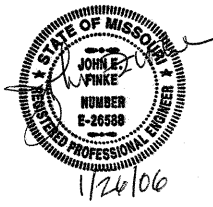


BORING DATA

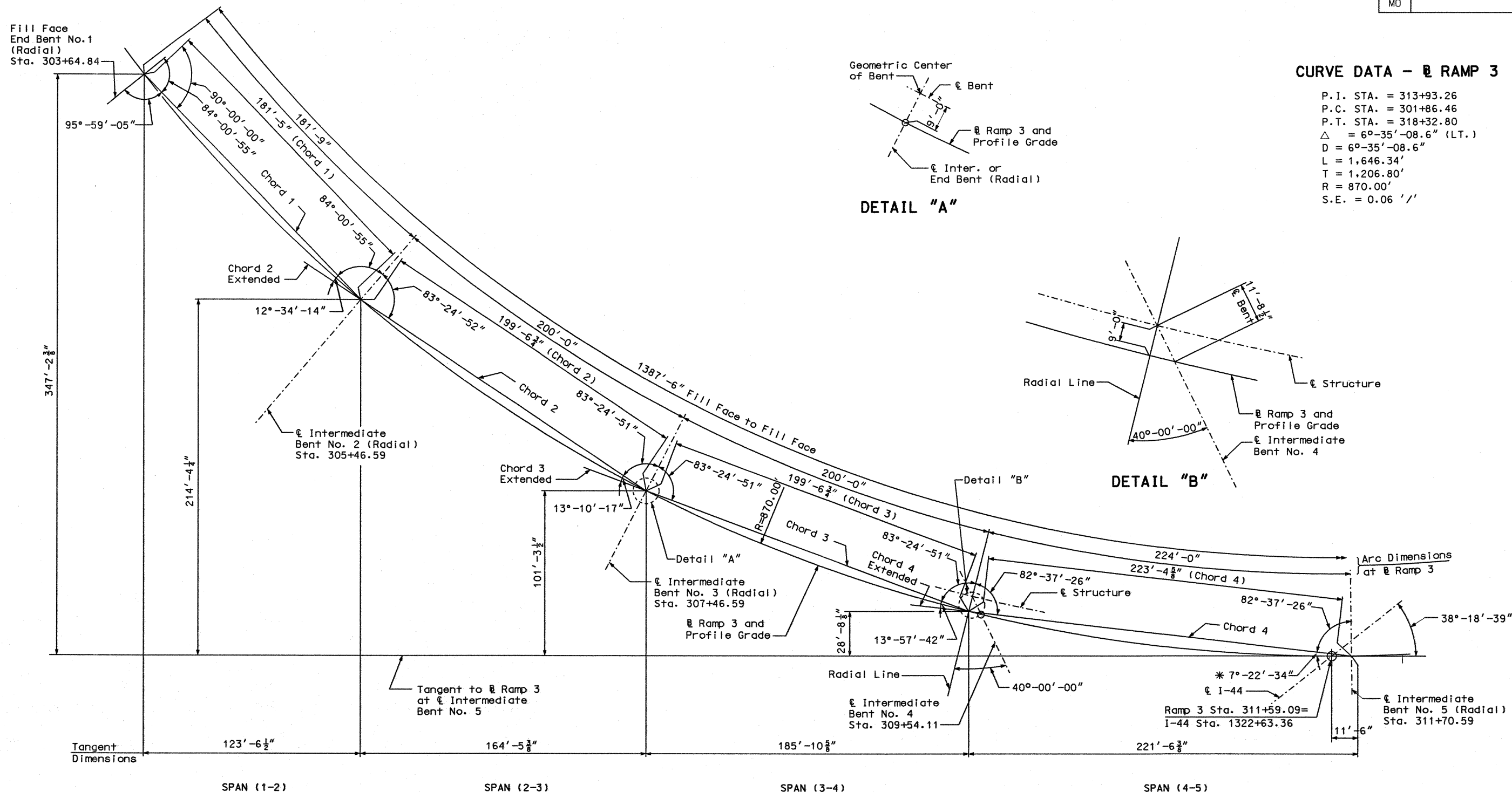


BORING DATA

Note:
For Notice and Disclaimer Regarding Boring Log Data,
see Sheet No. 1.
For Location of Borings, see Sheet Nos. 1 thru 4.



STATE	PROJ. NO.	SHEET NO.
MO		89



SUBSTRUCTURE LAYOUT

Notes:

All dimensions are horizontal.

* Angle between tangent and chord.
Bent Nos. 1 thru 3, and 5 thru 8 are parallel.
Intermediate Bent No. 4 skewed 40°-00'-00" R.A.
to a radial line at Sta. 309+46.59 @ Ramp 3.

DETAILED: GJD JUNE 2005
CHECKED: JEF NOV. 2005

JACOBS CIVIL INC.
ST. LOUIS, MO.

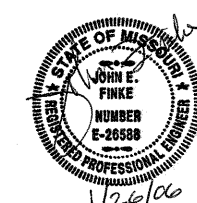
SHEET NO. 9 OF 77

GREENE COUNTY

A7024

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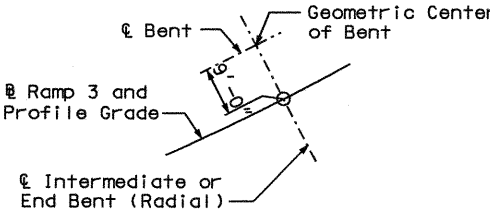
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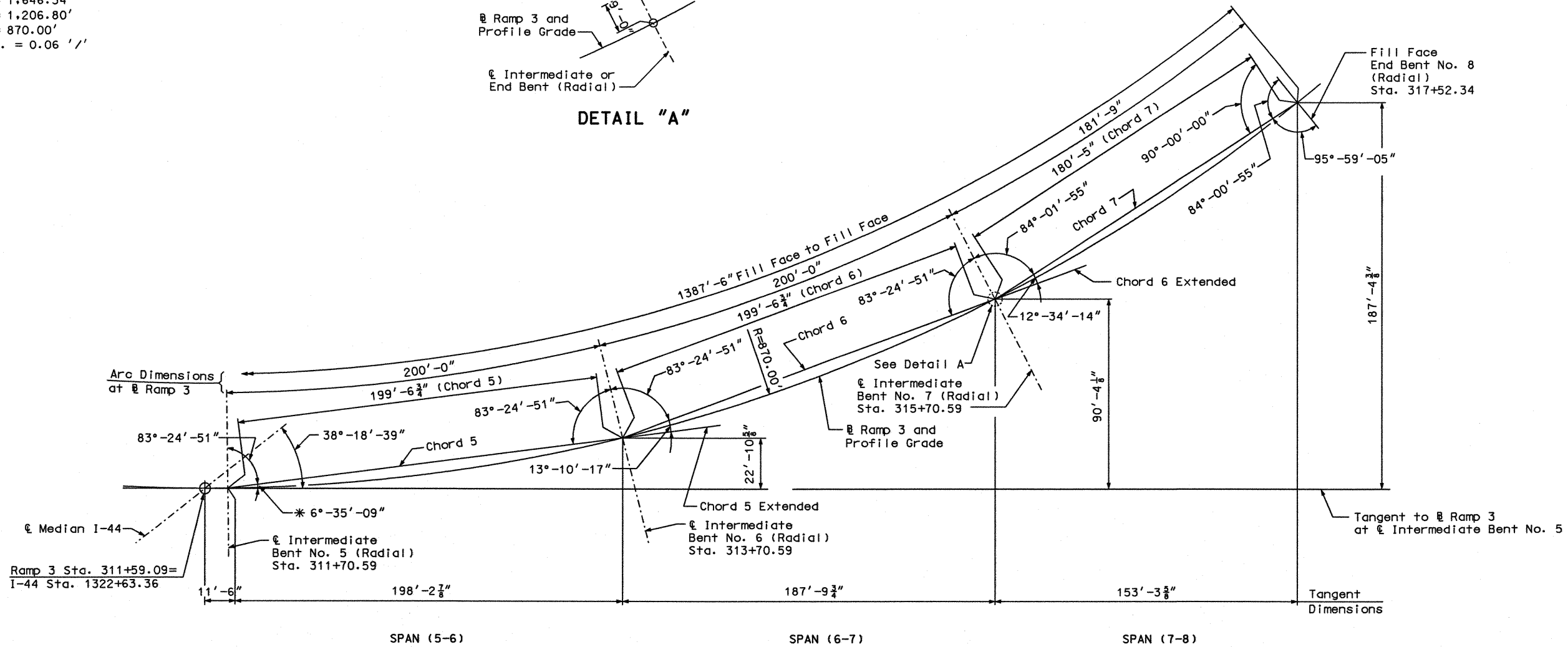
STATE	PROJ. NO.	SHEET NO.
MO		810

CURVE DATA - RAMP 3

P.I. STA. = 313+93.26
P.C. STA. = 318+86.46
P.T. STA. = 318+32.80
 $\Delta = 6^{\circ}-35'-08.6''$ (LT.)
 $D = 6^{\circ}-35'-08.6''$
 $L = 1,646.34'$
 $T = 1,206.80'$
 $R = 870.00'$
 $S.E. = 0.06'/'$



DETAIL "A"



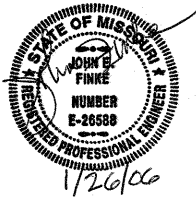
SUBSTRUCTURE LAYOUT

Notes:

All dimensions are horizontal.

* Angle between tangent and chord. Bent Nos. 1 thru 3 and 5 thru 8 are parallel.

Intermediate Bent No. 4 skewed 40°-00'-00" R.A. to a radial line at Sta. 309+46.59 RAMP 3.



DETAILED: GJD JUNE 2005
CHECKED: JEF DEC. 2005

JACOBS CIVIL INC.
ST. LOUIS, MO.

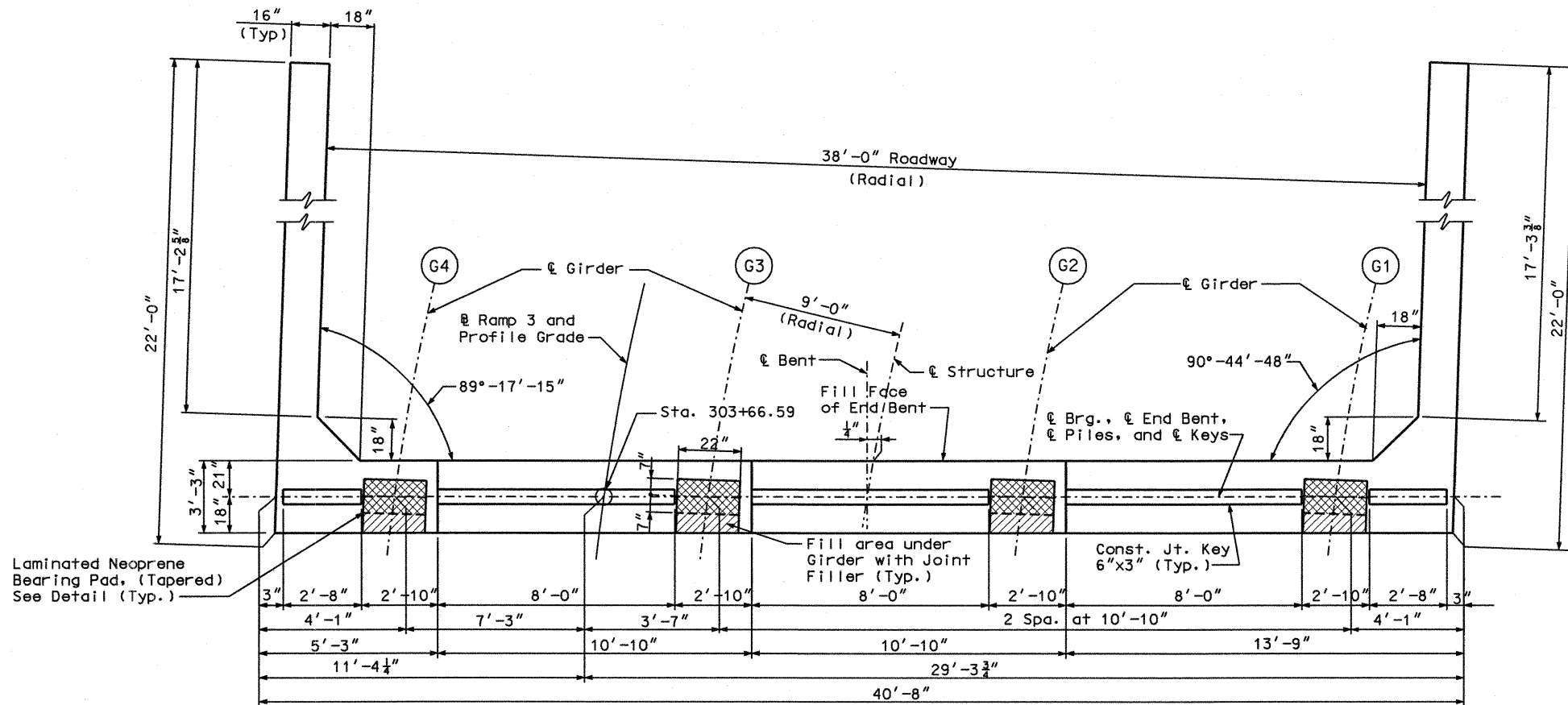
SHEET NO. 10 OF 77

GREENE COUNTY

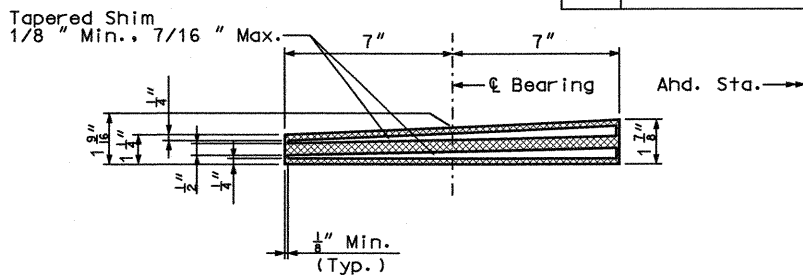
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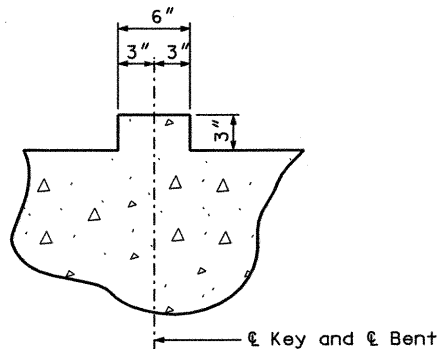
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PLAN OF BEAM SHOWING DIMENSIONS



DETAIL OF LAMINATED NEOPRENE BEARING AT END BENT NO. 1



TYPICAL SECTION THRU KEY AT END BENT

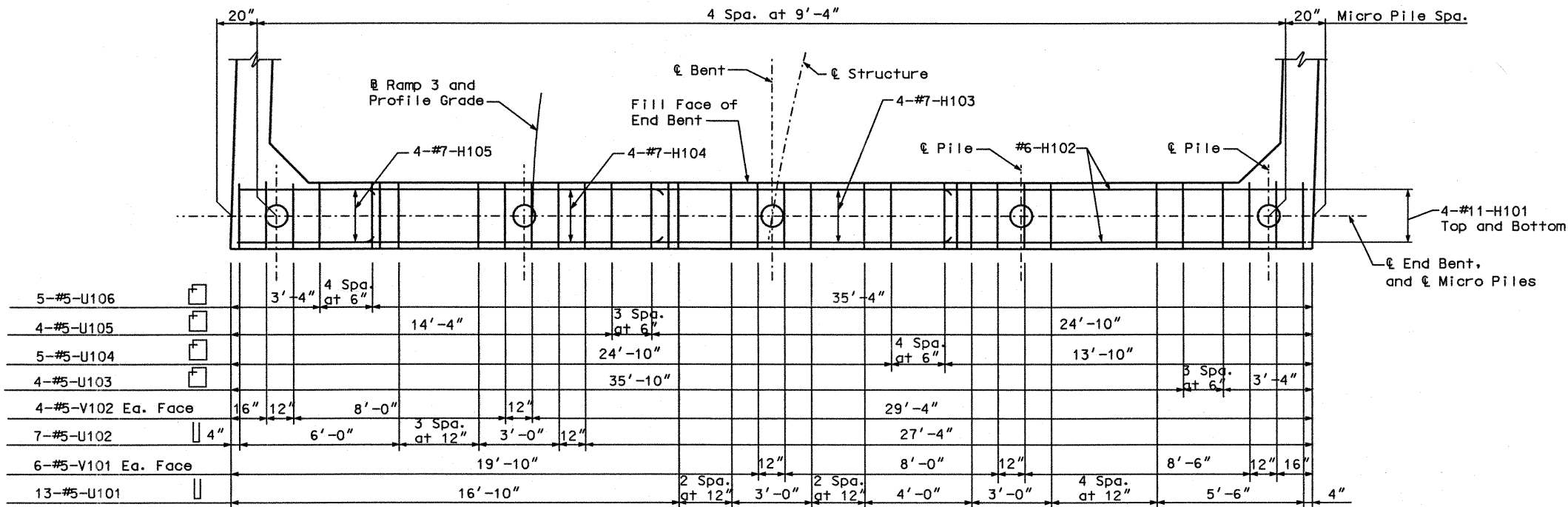
Substructure Quantity Table for End Bent No. 1

Item	Quantity
Micro Piles (9.625 in.)	each 5
Loading Tests	each 1
Class B Concrete (Substructure)	cu. yard 28.7

Note: These quantities are included in the Estimated Quantities Table on Sheet No. 5.

Notes:

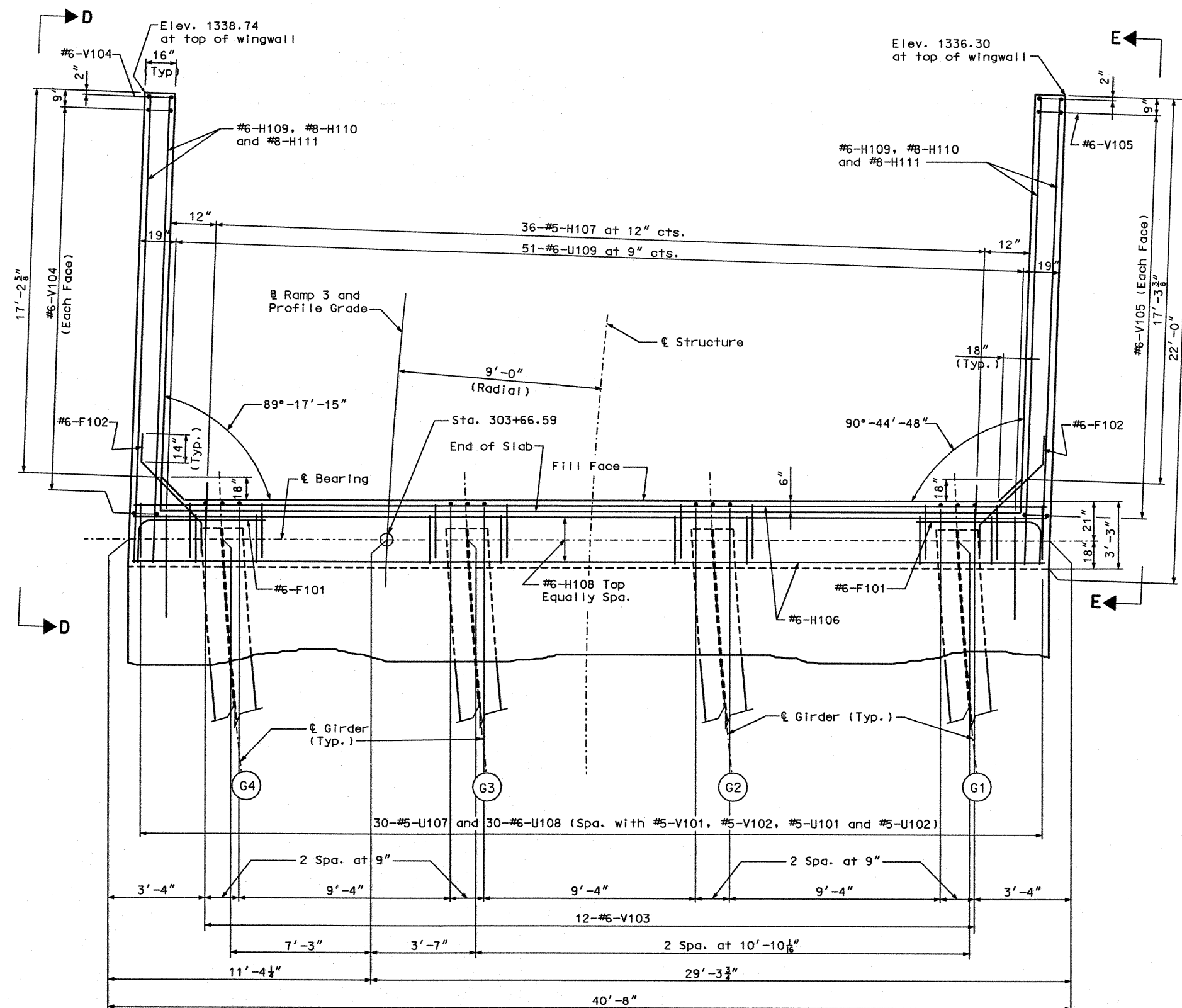
- For reinforcement of Safety Barrier Curb, see Sheet No. 67.
- For details of End Bent No. 1 not shown, see Sheet Nos. 12 thru 14.
- For details of Approach Slab, see Sheet No. 70.
- For details of Vertical Drain at End Bent, see Sheet No. 34.
- All Vertical reinforcement bars in the substructure beams or caps shall be field adjusted to clear piles by at least 1 1/2".
- For Micro Pile Details, see Sheet No. 33.



PLAN OF BEAM SHOWING REINFORCEMENT

DETAILS OF END BENT NO. 1

STATE	PROJ. NO.	SHEET NO.
MO		BIZ



Notes:

For details of End Bent No. 1 not shown, see Sheet Nos. 11, 13 and 14.

For details of Approach Slab, see Sheet No. 70.

For details of Vertical Drain at End Bent, see Sheet No. 34.

Reinforcing in the end bent shall be placed parallel to Δ Ramp 3.

For Elevations D-D and E-E, see Sheet No. 14.

Bend F102 Bars in field to clear Girder.

Concrete Diaphragms at the Integral End Bents shall be poured a minimum of 12 hours before the Slab is poured.

PART PLAN

DETAILS OF END BENT NO. 1

DETAILED: EAK JULY 2005
CHECKED: SEM NOV. 2005

JACOBS CIVIL INC.
ST. LOUIS, MO.

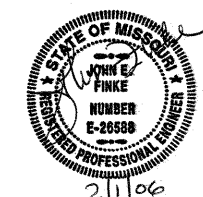
SHEET NO. 12 OF 77

GREENE COUNTY

A7024

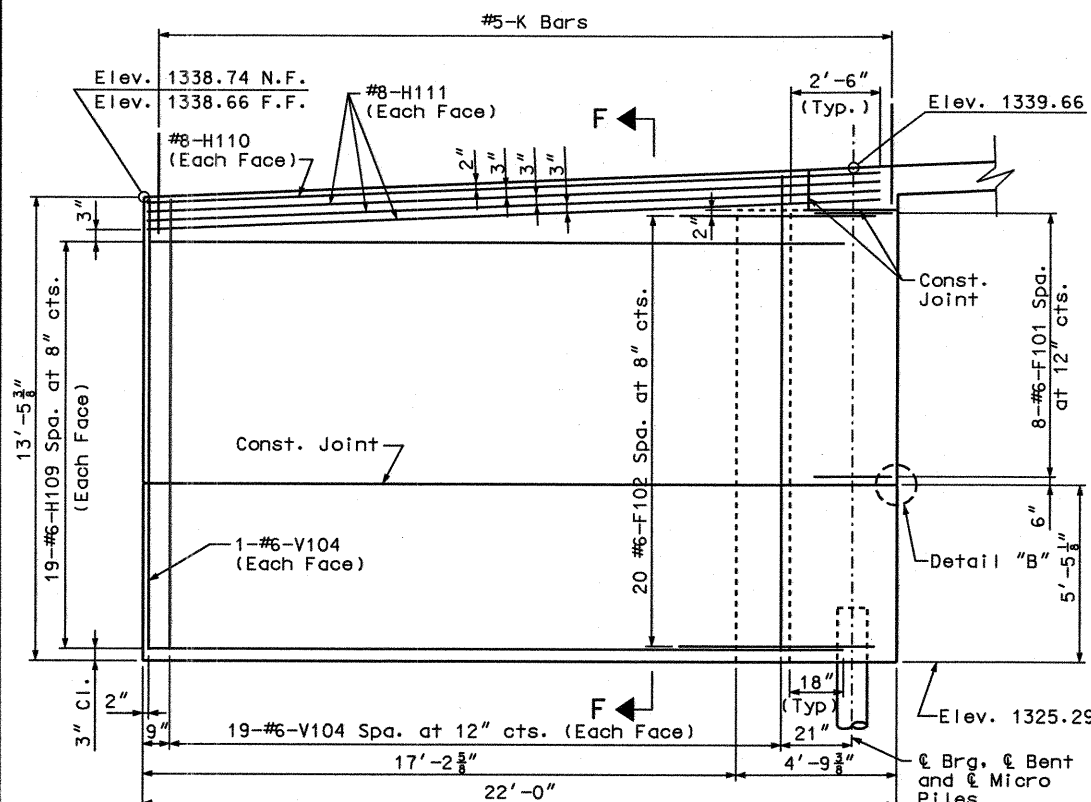
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11:43 01-FEB-2006

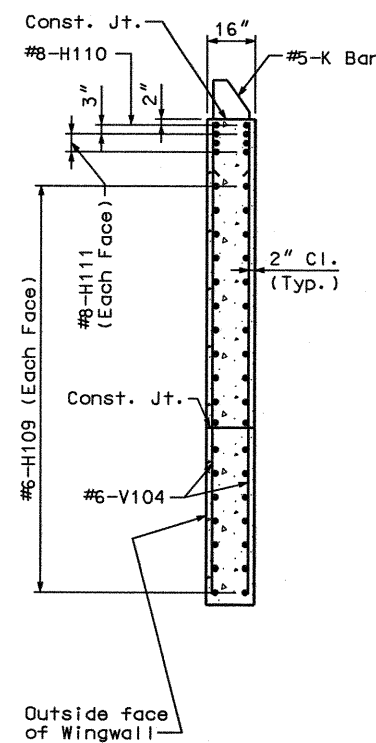


REV.

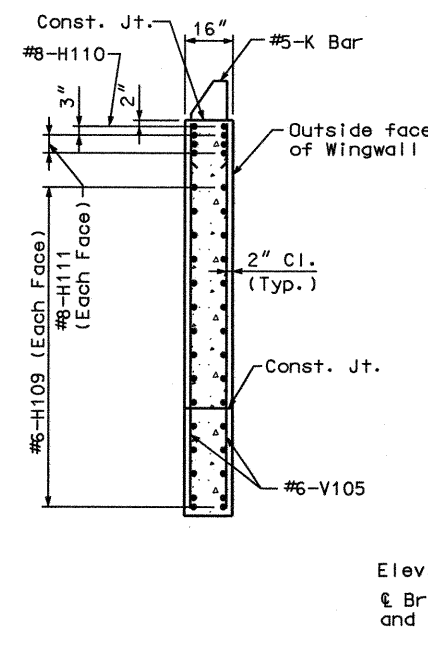
STATE	PROJ. NO.	SHEET NO.
MO		B14



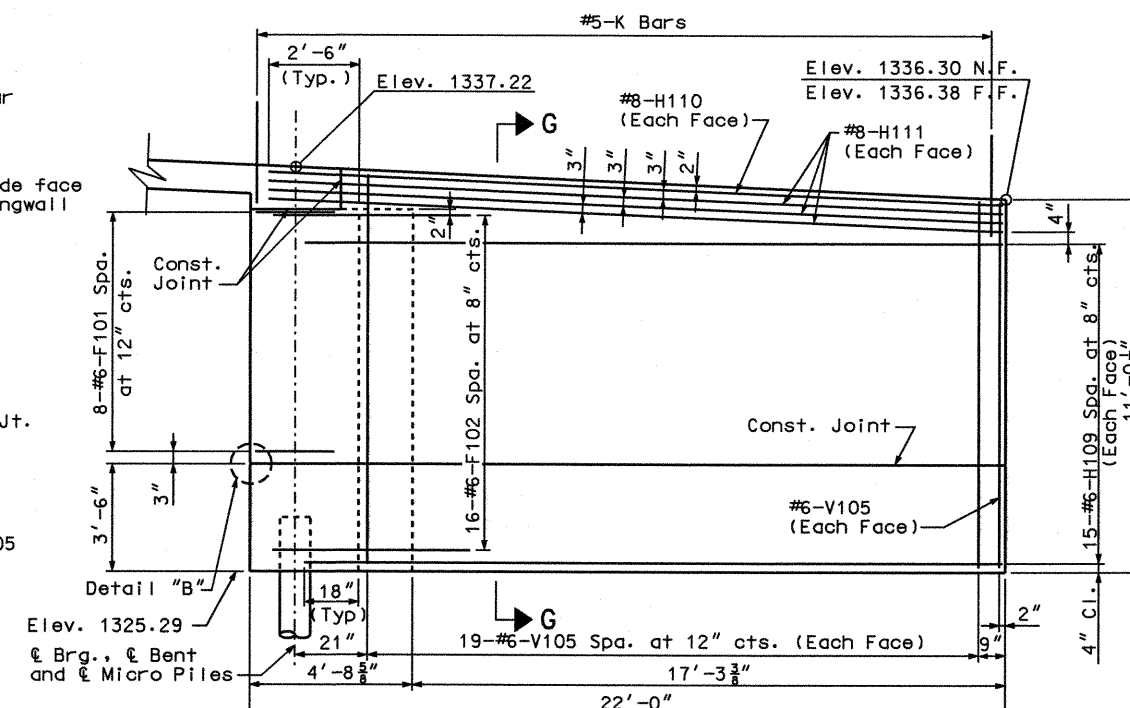
ELEVATION D-D



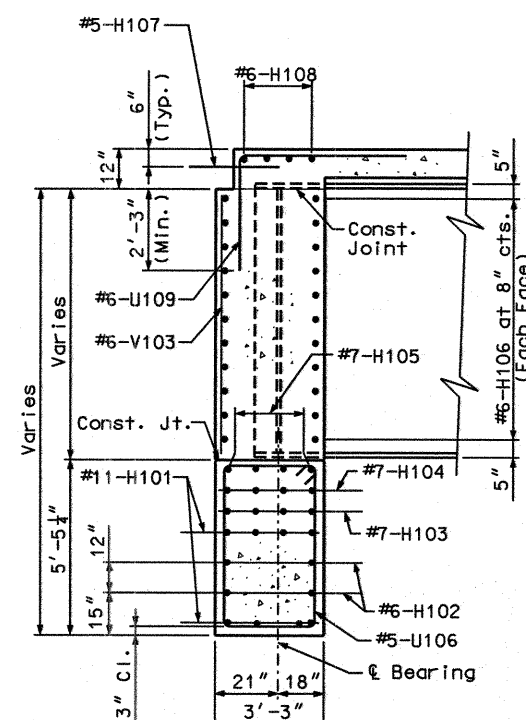
SECTION F-F



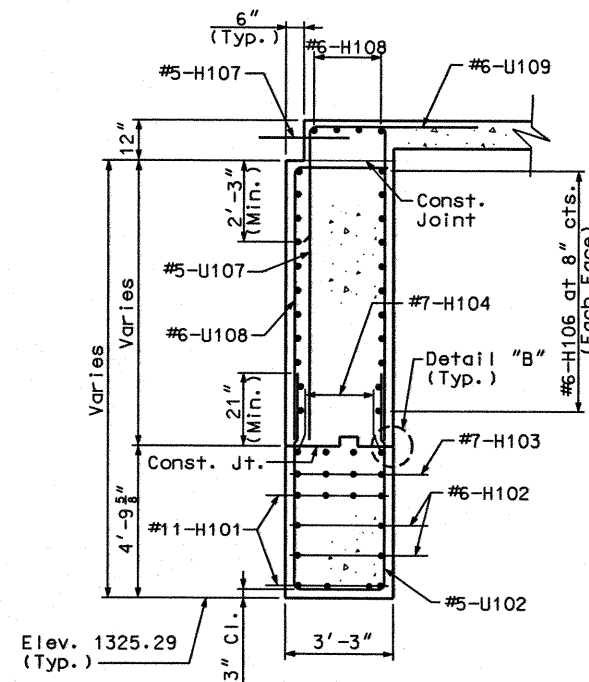
SECTION G-G



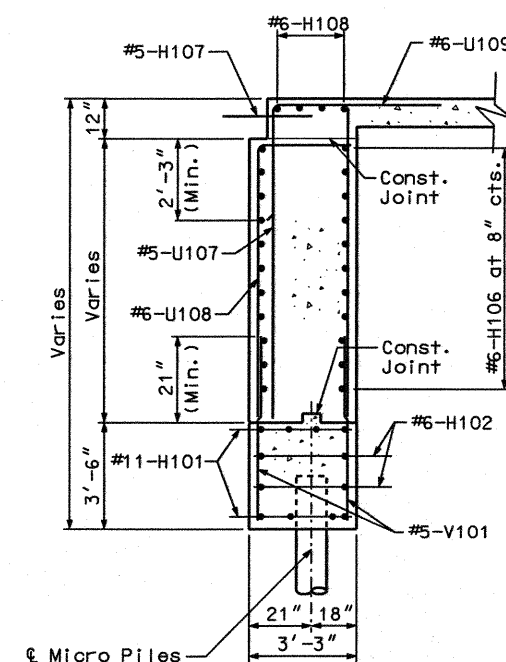
ELEVATION E-E



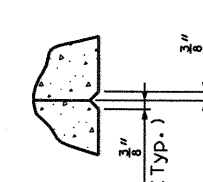
SECTION A-A



SECTION B-B



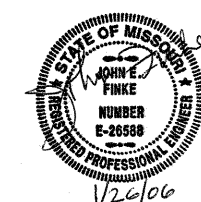
SECTION C-C



DETAIL "B"

Notes:

- For location of Elevation D-D and E-E, see Sheet No. 12.
- For reinforcement of safety barrier curb, see Sheet No. 67.
- For locations of Sections A-A, B-B and C-C see Sheet No. 13.
- For details of End Bent No. 1 not shown, see Sheet Nos. 11 thru 13.
- For Micro Pile Details, see Sheet No. 33.



DETAILS OF END BENT NO. 1

DETAILED: EAK SEP. 2005
CHECKED: SEM NOV. 2005

JACOBS CIVIL INC.
ST. LOUIS, MO.

SHEET NO. 14 OF 77

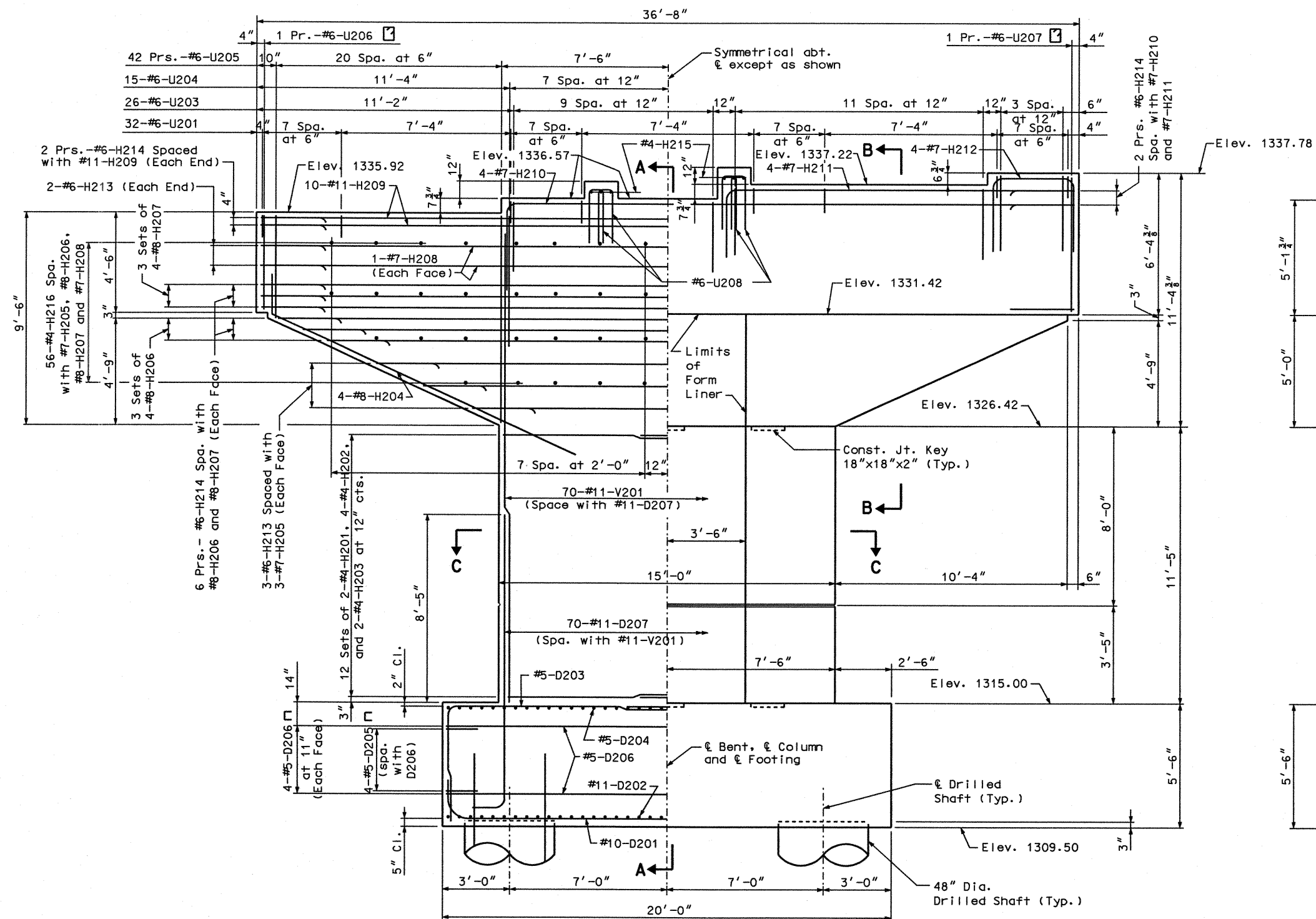
GREENE COUNTY

A7024

P:\c1x21400\700codd\709str\A7024 Ramp 3\A7024_EBT03_JBU0548B.dgn

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REV.



ELEVATION

Notes:

For Sections B-B and C-C, see Sheet No. 16.

For Form Liner Details, see Sheet No. 33.

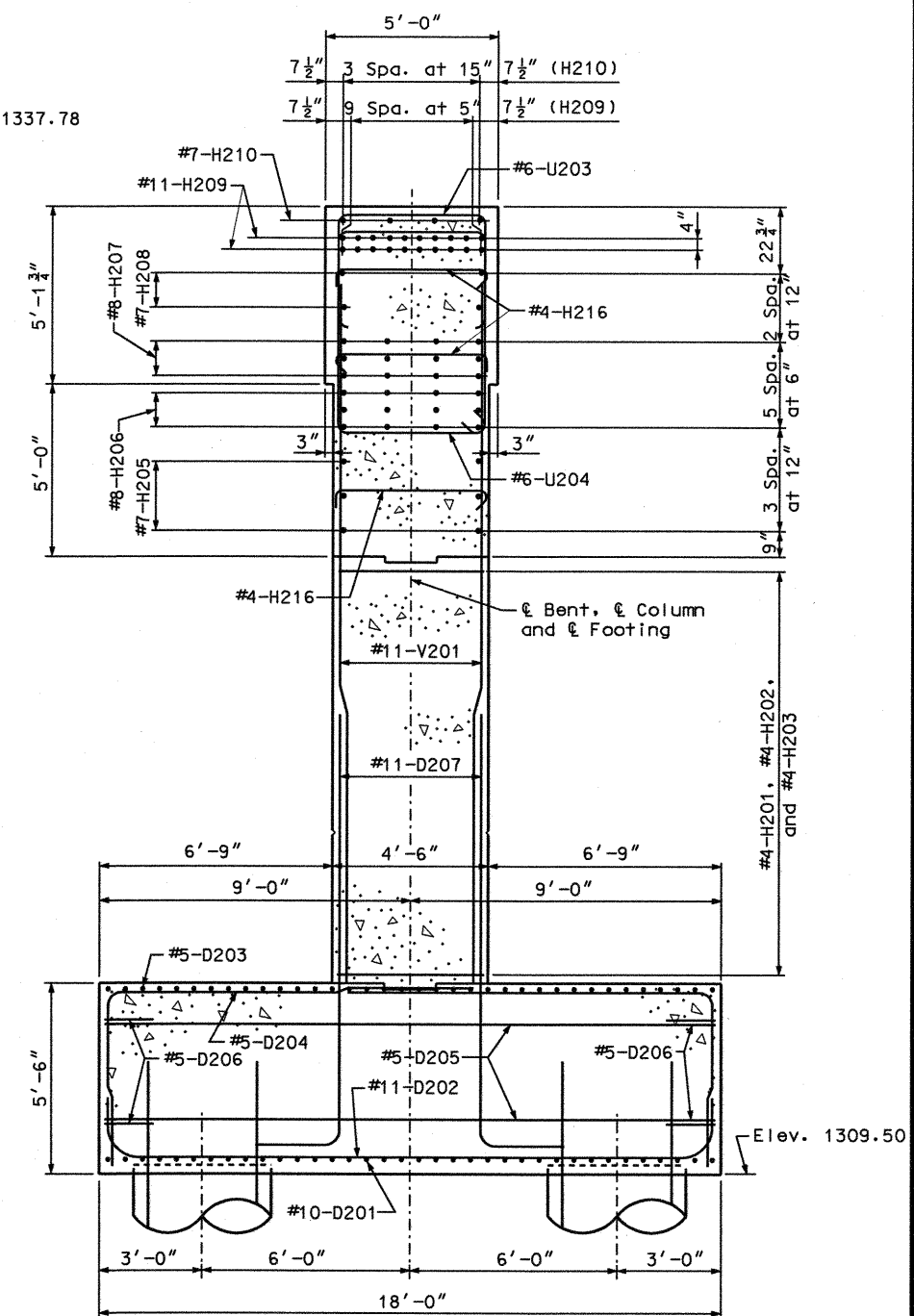
For Footing Plan, see Sheet No. 16.

For Details of Laminated Neoprene Bearing Pad, see Sheet No. 35.

For Details of Drilled Shafts, see Sheet No. 32.

Substructure Quantity Table
for Intermediate Bent No. 2

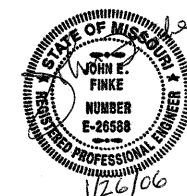
Item	Quantity
Class 1 Excavation cu. yard	140
Drilled Shafts (4 ft. 0 in. Dia.) linear foot	64.2
Rock Sockets (3 ft. 6 in. Dia.) linear foot	64
Supplemental Television Camera Inspection each	4
Foundation Inspection Holes linear foot	104
Concrete Coring linear foot	32
Sonic Logging Testing each	4
Class B Concrete (Substructure) cu. yard	159.5
Form Liner sq. yard	26
Reinforcing Steel (Bridges) pound	49,680

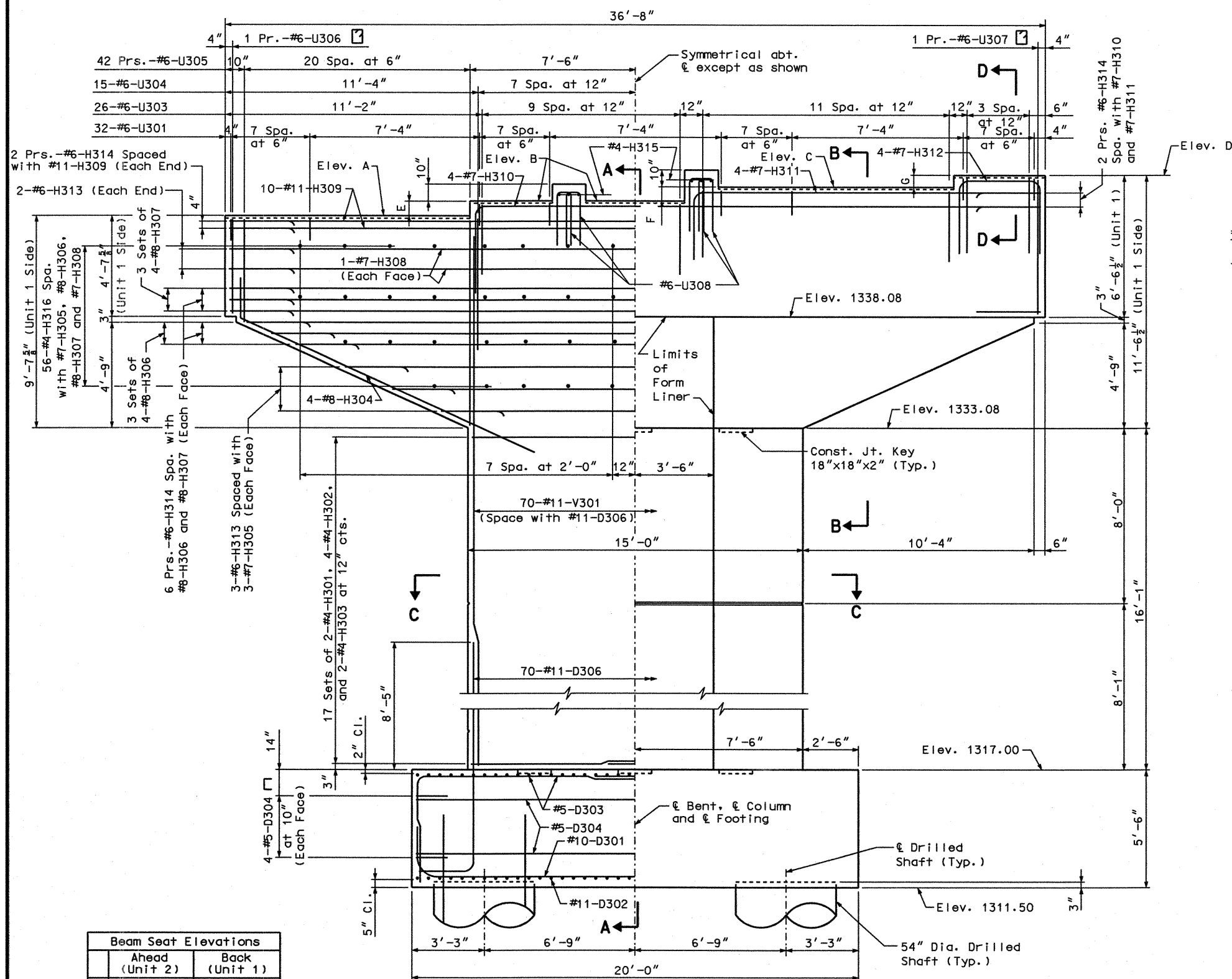


SECTION A-A

Note:

NOTE:
These quantities are included in
the Estimated Quantities Table
on Sheet No. 5.





Beam Seat Elevations		
	Ahead (Unit 2)	Back (Unit 1)
A	1342.58	1342.72
B	1343.23	1343.37
C	1343.79	1344.02
D	1344.36	1344.62
Dimensions		
E	7 $\frac{3}{4}$ "	7 $\frac{3}{4}$ "
F	6 $\frac{3}{4}$ "	7 $\frac{3}{4}$ "
G	6 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "

Note:
Slope beam cap to drain between bearings.
See Sheet No. 5 for limits of Protective Coating.

Notes:

For Sections B-B, C-C and D-D, see Sheet No. 18.

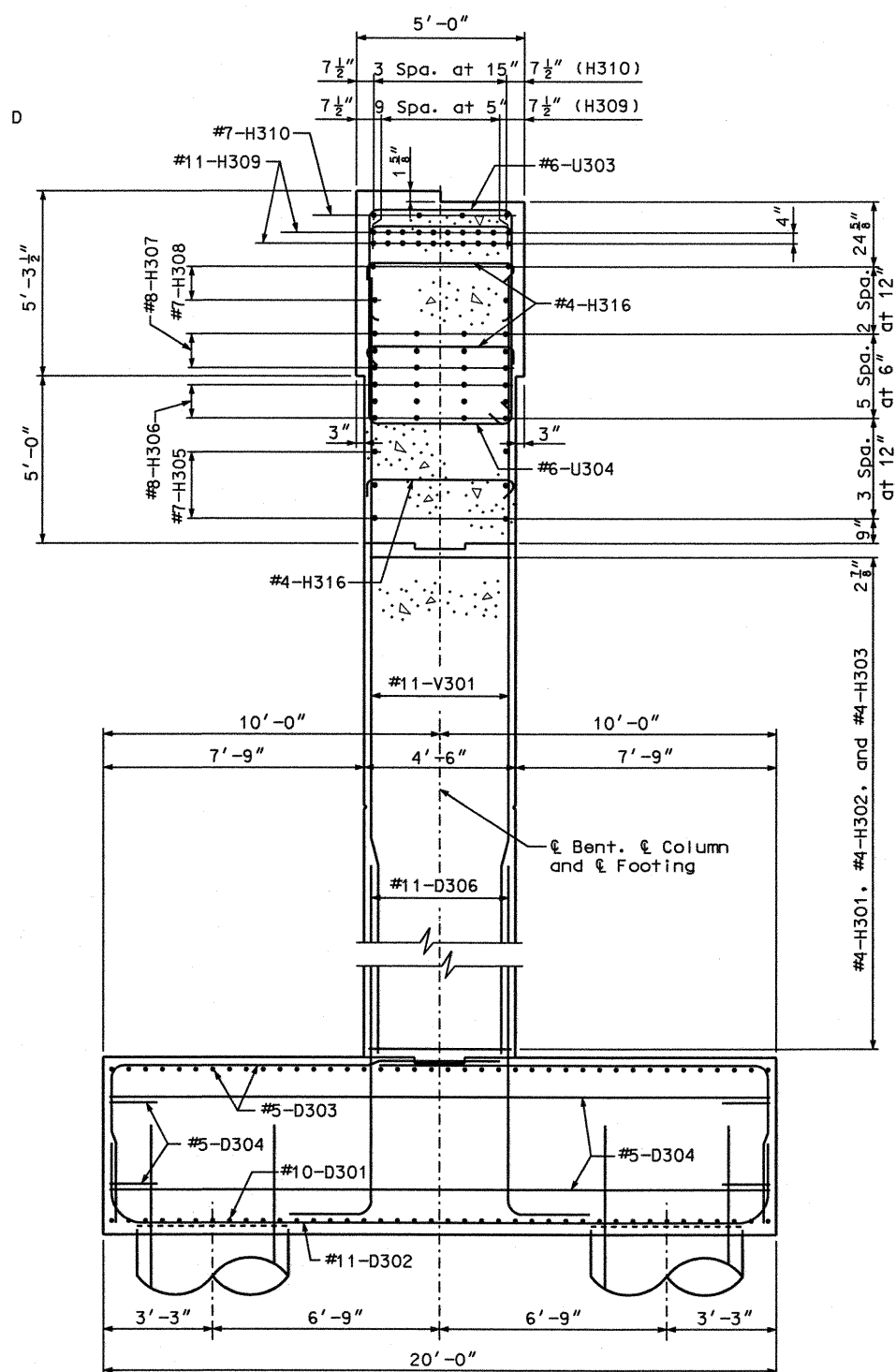
For Details of Laminated Neoprene Bearing Pad, see Sheet No. 36.

For Form Liner Details, see Sheet No. 33.

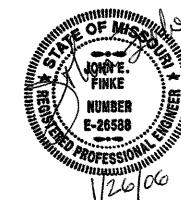
For Plan of Footing, see Sheet No. 18.

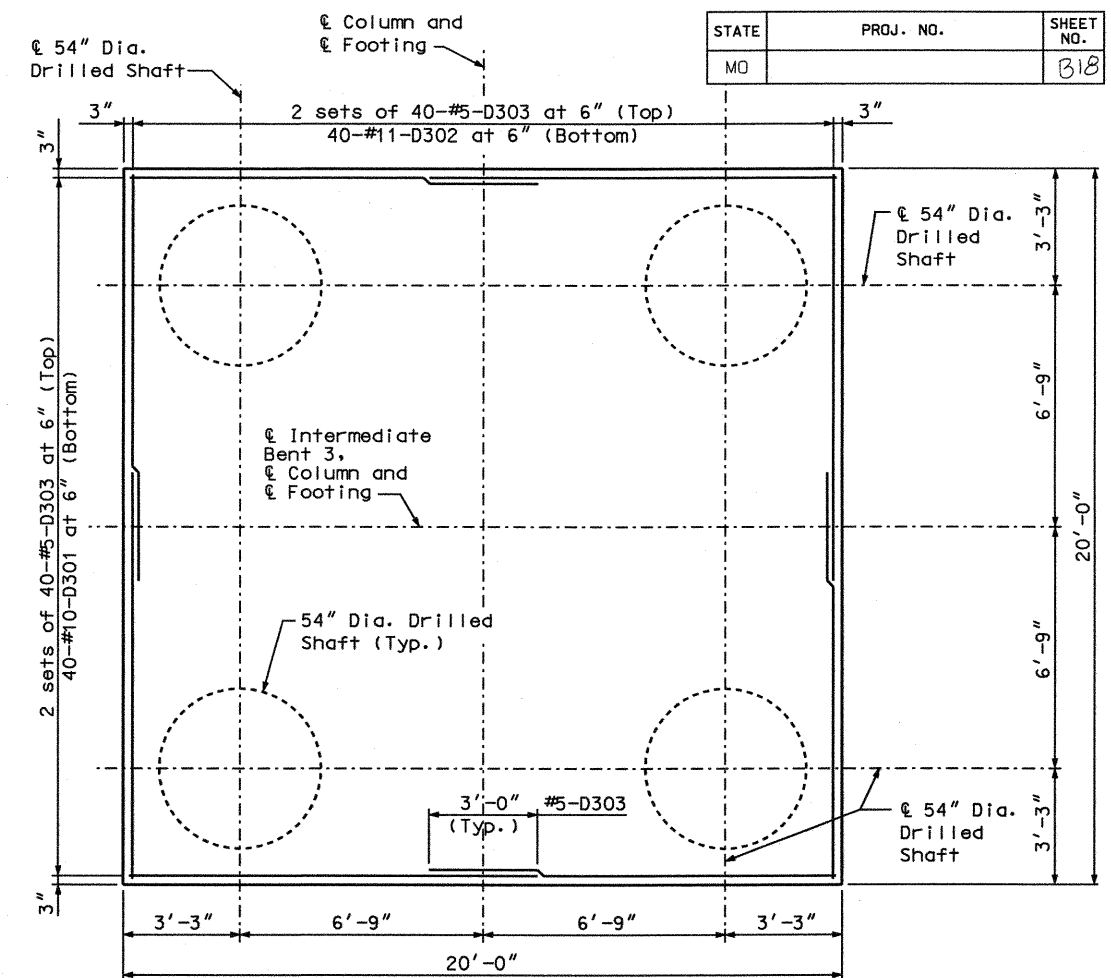
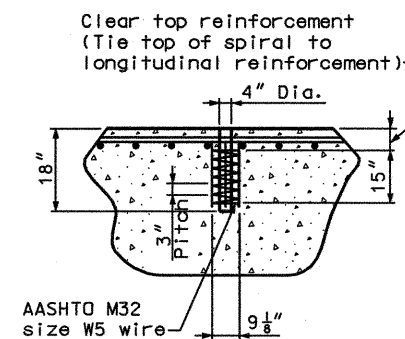
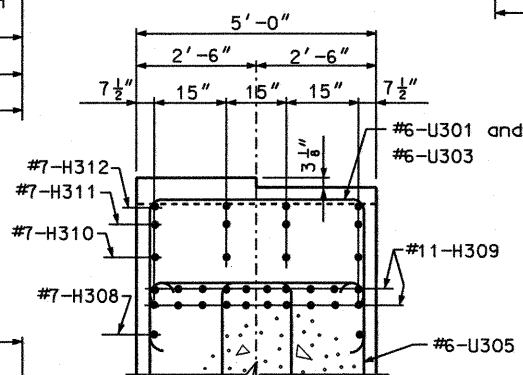
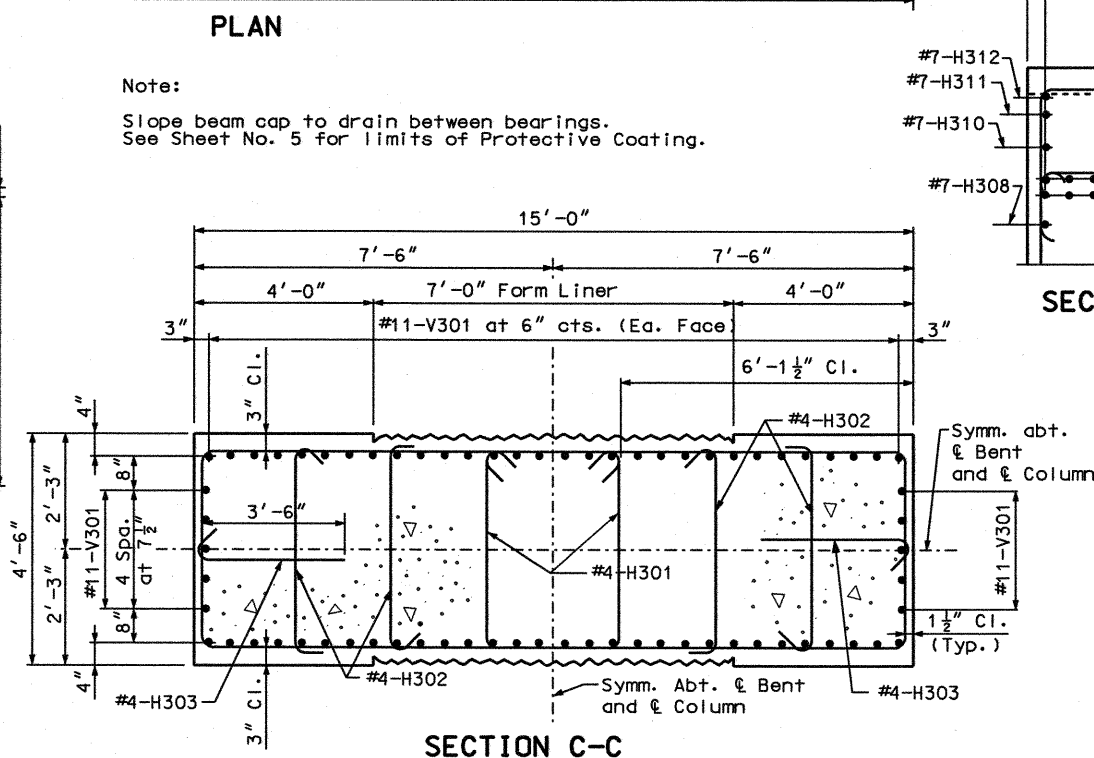
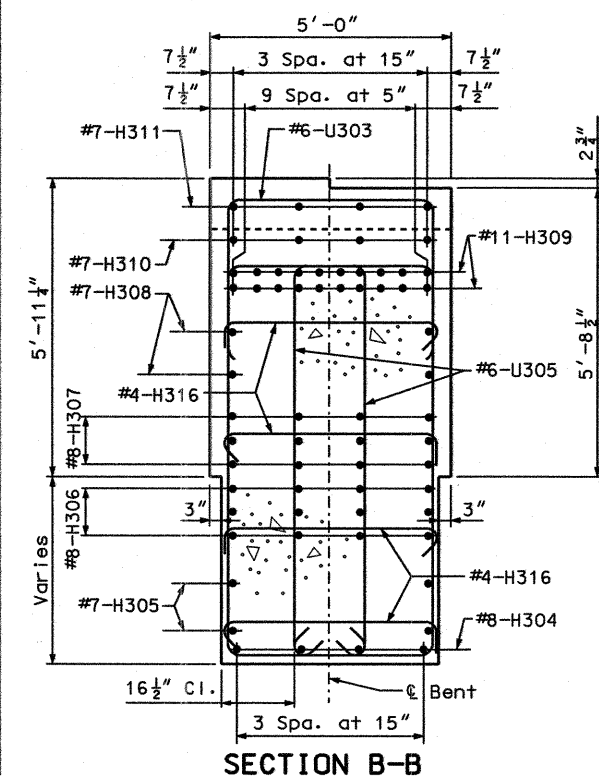
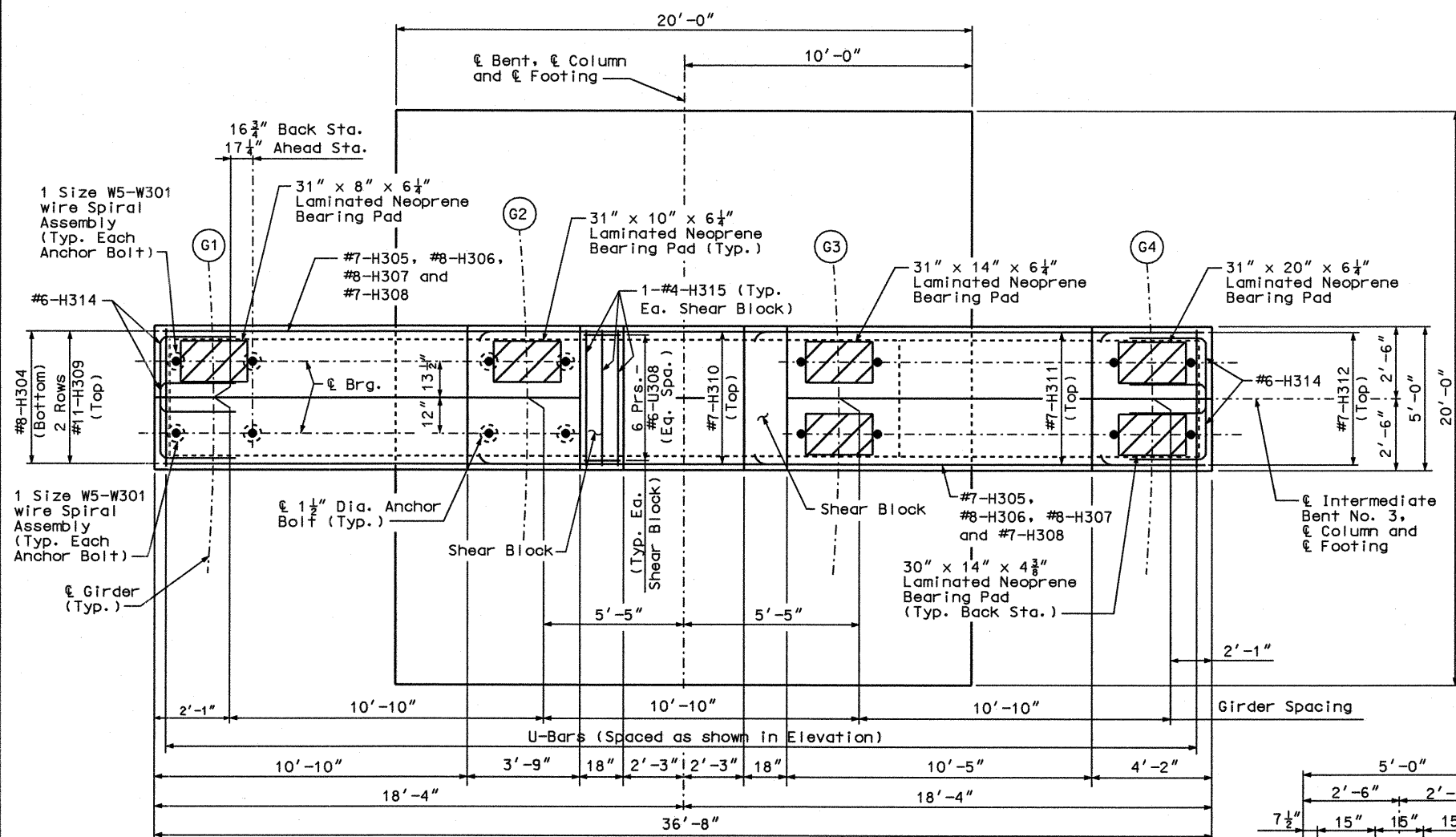
For Plan of Beam showing Bearings and reinforcing and details of Bearing pads, see sheet No. 18.

For Details of Drilled Shafts, see Sheet No. 32.



SECTION A-A





Substructure Quantity Table for Intermediate Bent No. 3		
Item		Quantity
Class 1 Excavation	cu. yard	200
Drilled Shafts (4 ft. 6 in. Dia.)	linear foot	82
Rock Sockets (4 ft. 0 in. Dia.)	linear foot	60
Supplemental Television Camera Inspection	each	4
Foundation Inspection Holes	linear foot	100
Concrete Coring	linear foot	36
Sonic Logging Testing	each	4
Class B Concrete (Substructure)	cu. yard	179.1
Form Liner	sq. yard	33
Reinforcing Steel (Bridges)	pound	48,590
Reinforcing Steel (Epoxy Coated)	pound	11,360

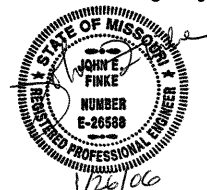
Note: These quantities are included in the Estimated Quantities Table on Sheet No. 5.

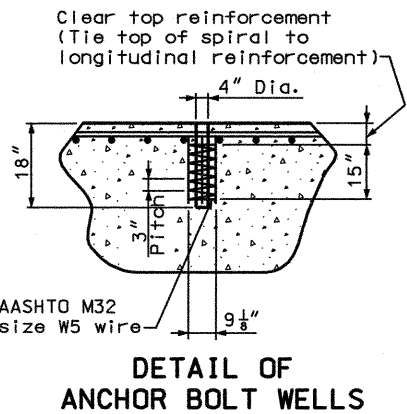
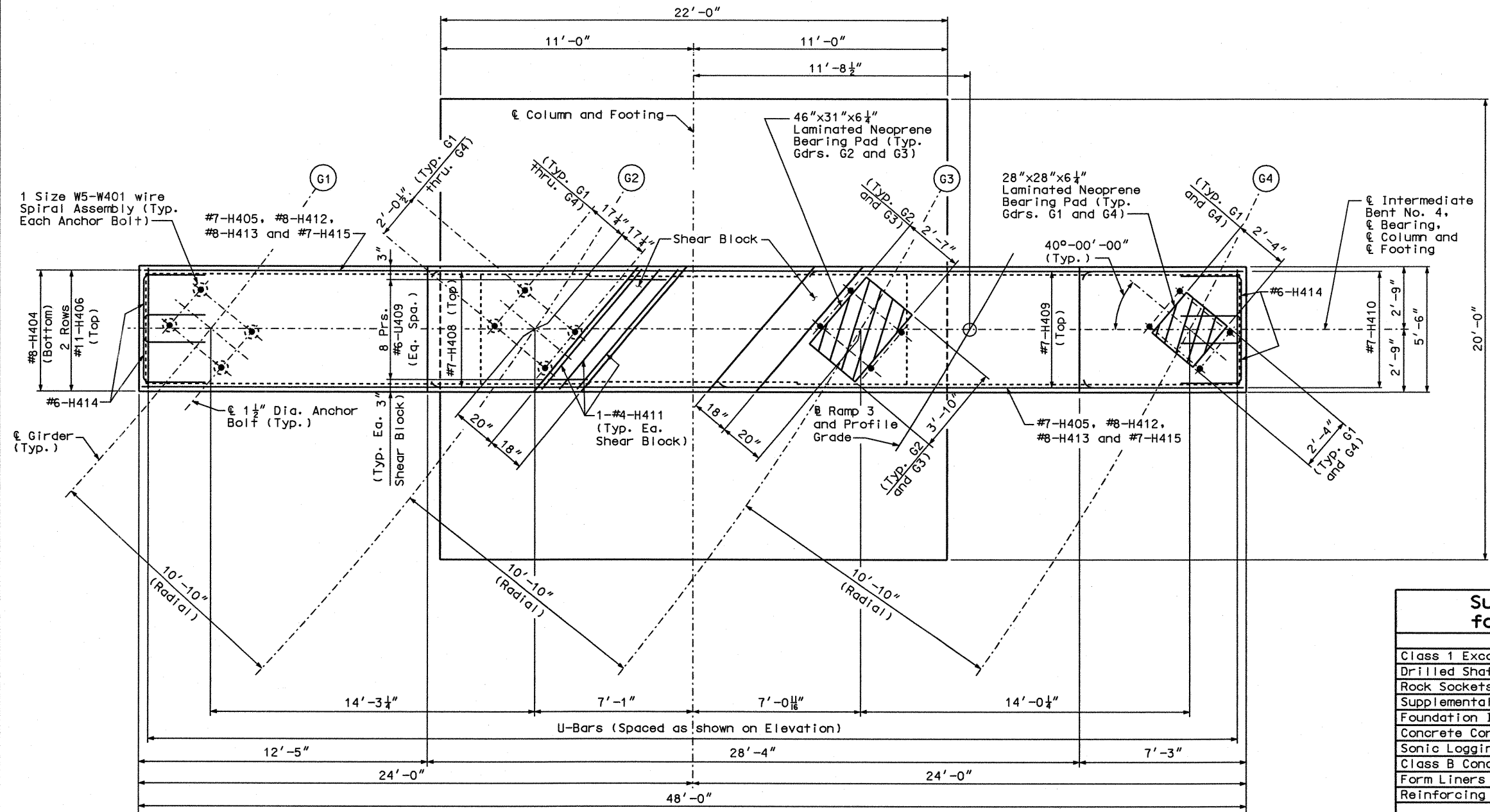
Notes:

For location of Section B-B, Section C-C, and D-D see Sheet No. 17.

For Details of Drilled Shafts, see Sheet No. 32.

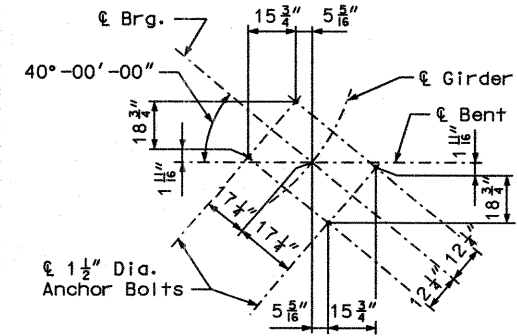
All reinforcing bars in the tops of substructure beams or cap shall be spaced to clear anchor bolt wells for bearings by at least 1/2".





Substructure Quantity Table for Intermediate Bent No. 4		
Item		Quantity
Class 1 Excavation	cu. yard	200
Drilled Shafts (4 ft. 6 in. Dia.)	linear foot	73
Rock Sockets (4 ft. 0 in. Dia.)	linear foot	72
Supplemental Television Camera Inspection	each	4
Foundation Inspection Holes	linear foot	112
Concrete Coring	linear foot	34.9
Sonic Logging Testing	each	4
Class B Concrete (Substructure)	cu. yard	226
Form Liners	sq. yard	31
Reinforcing Steel (Bridges)	pound	72,930

Note: These quantities are included in the Estimated Quantities Table on Sheet No. 5.

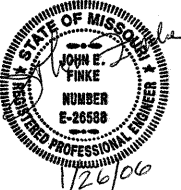


Notes:

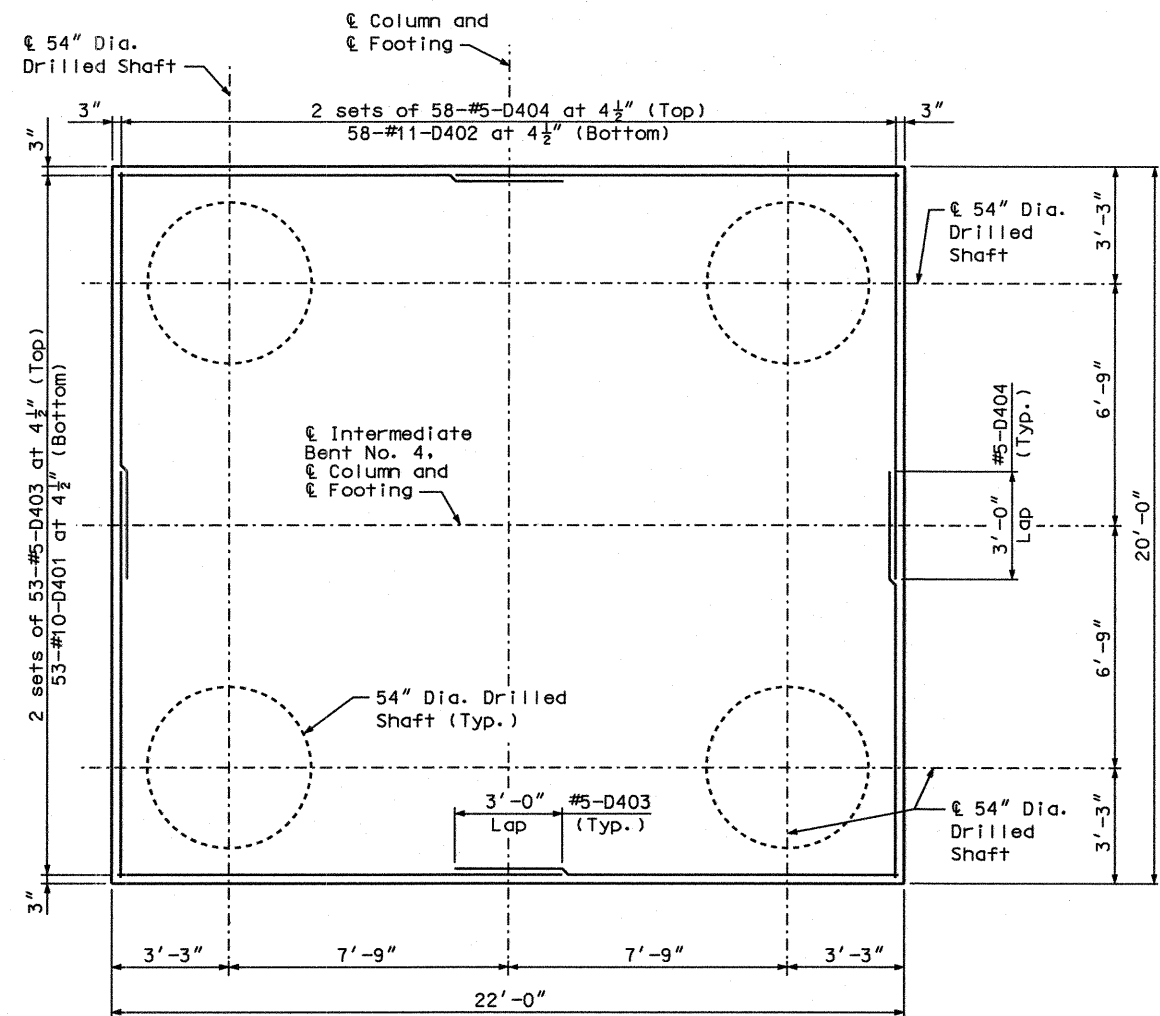
For details of Laminated Neoprene Bearing Pad, see Sheet No. 35.

For Form Liner Details, see Sheet No. 33.

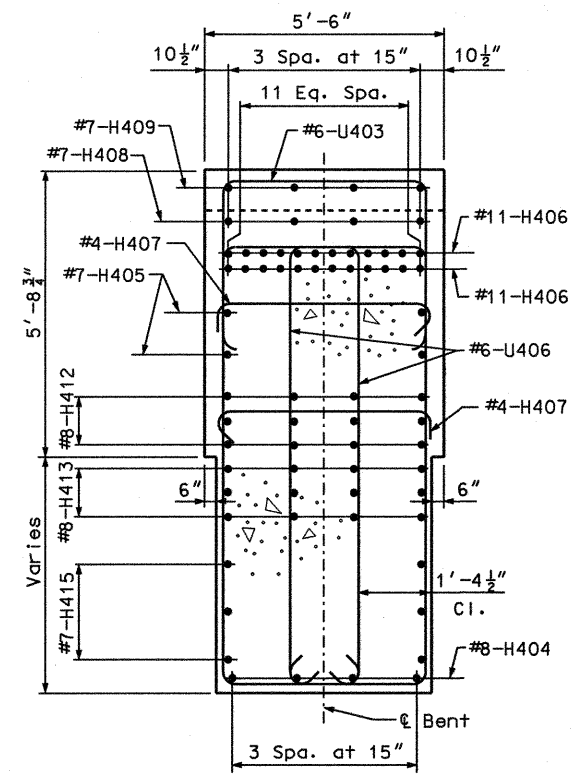
All reinforcing in the top of substructure beam or caps shall be spaced to clear anchor bolt wells for bearings by at least 1/2".



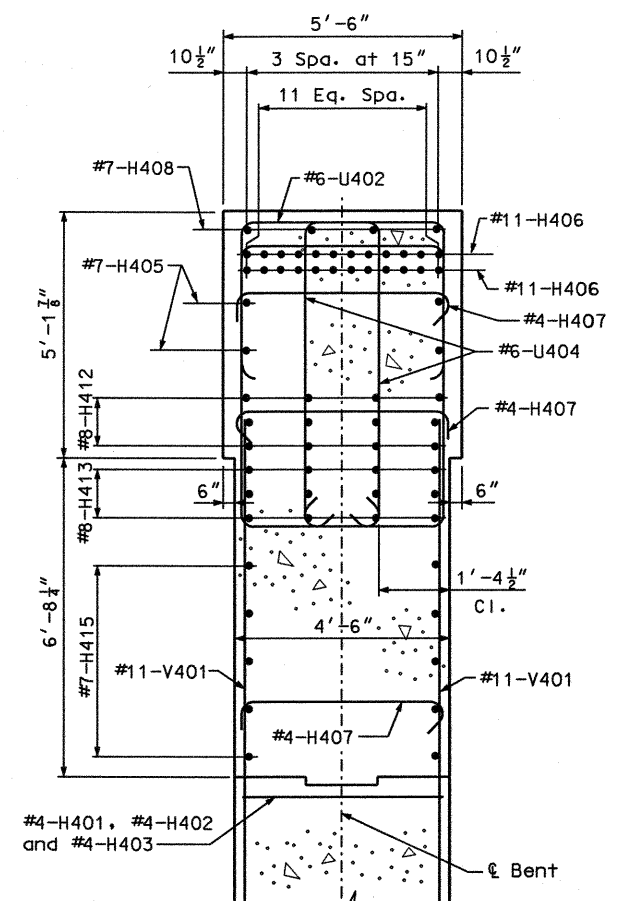
STATE	PROJ. NO.	SHEET NO.
MO		821



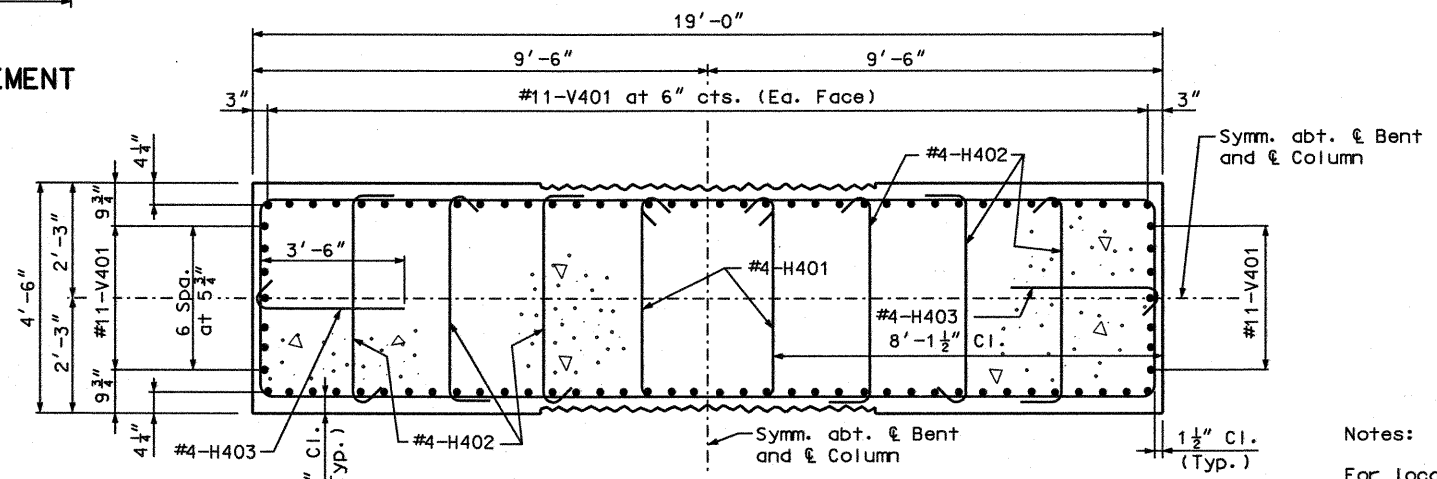
PLAN OF FOOTING
SHOWING DRILLED SHAFTS AND REINFORCEMENT



SECTION B-B

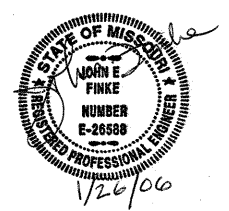


SECTION D-D



SECTION C-C

Notes:
For location of Sections B-B, C-C and D-D see Sheet No. 19.
For Details of Drilled Shafts, see Sheet No. 32.



DETAILED: SEM NOV. 2005
CHECKED: GJD DEC. 2005

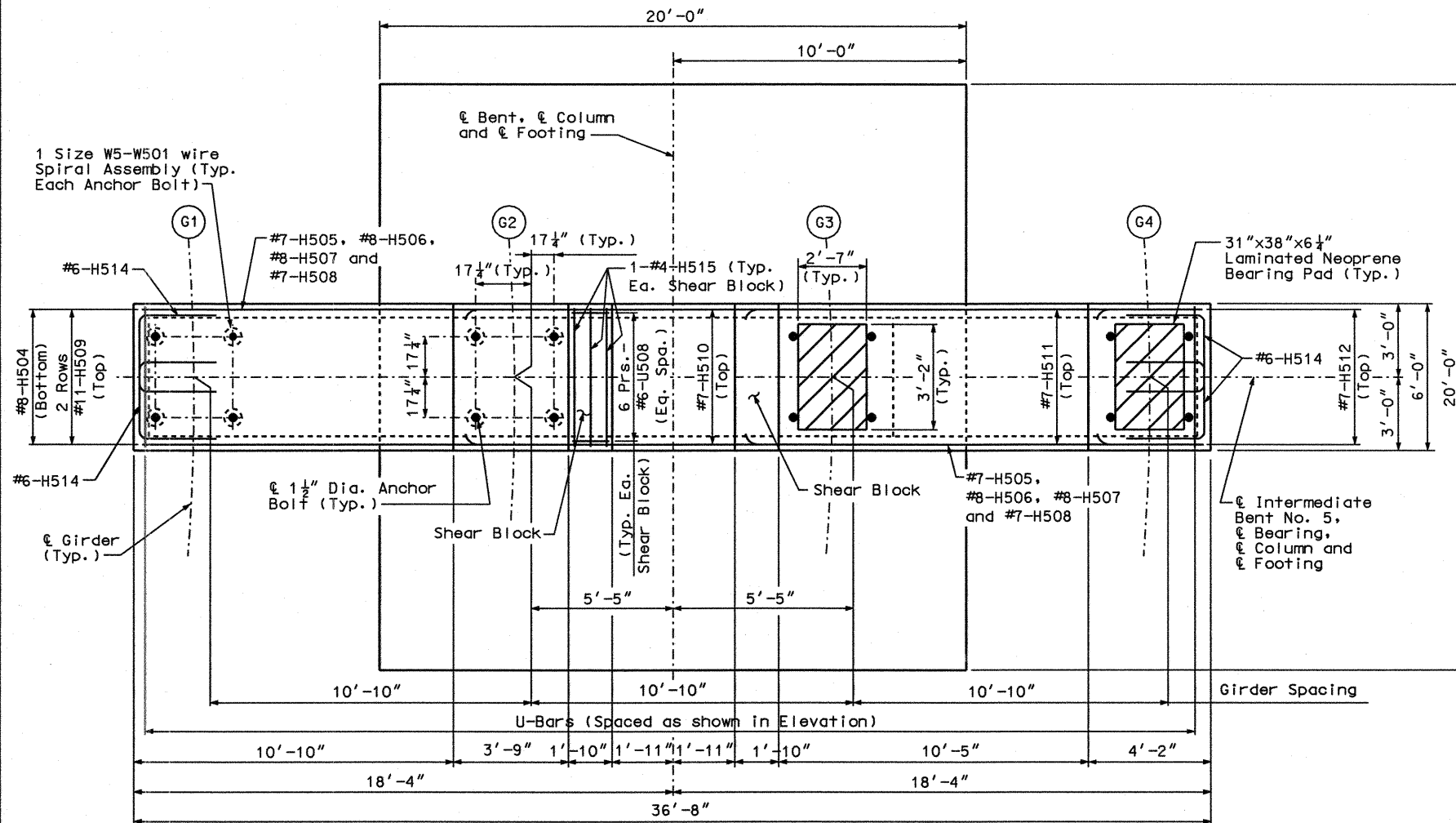
JACOBS CIVIL INC.
ST. LOUIS, MO.

DETAILS OF INTERMEDIATE BENT NO. 4

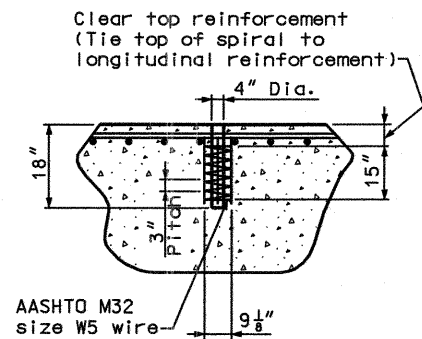
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GREENE COUNTY

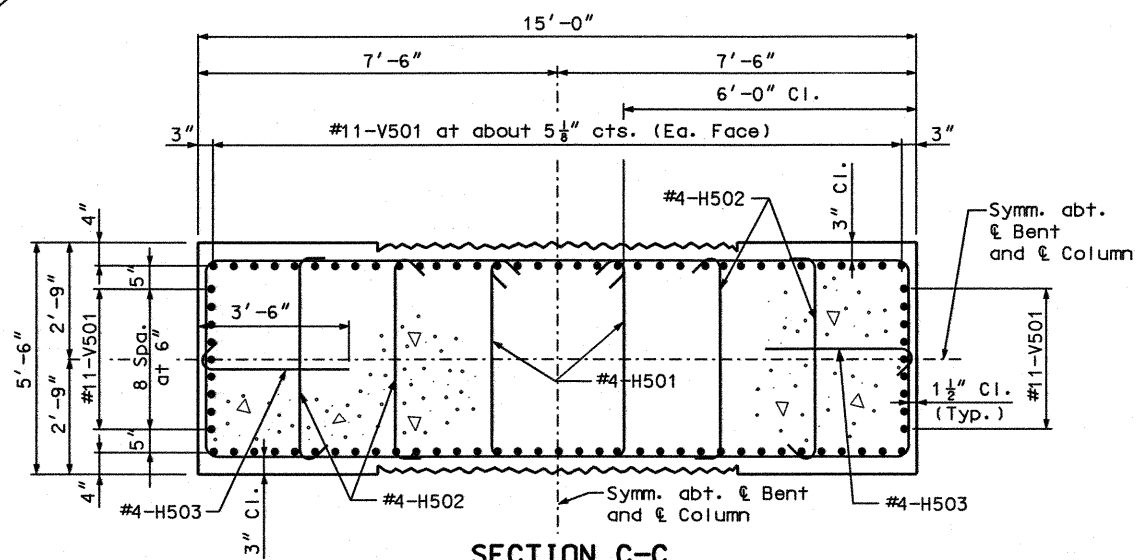
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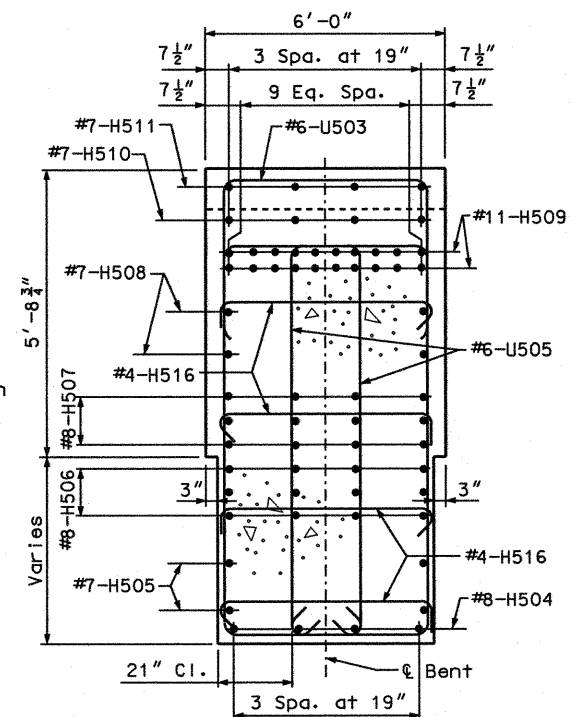
PLAN



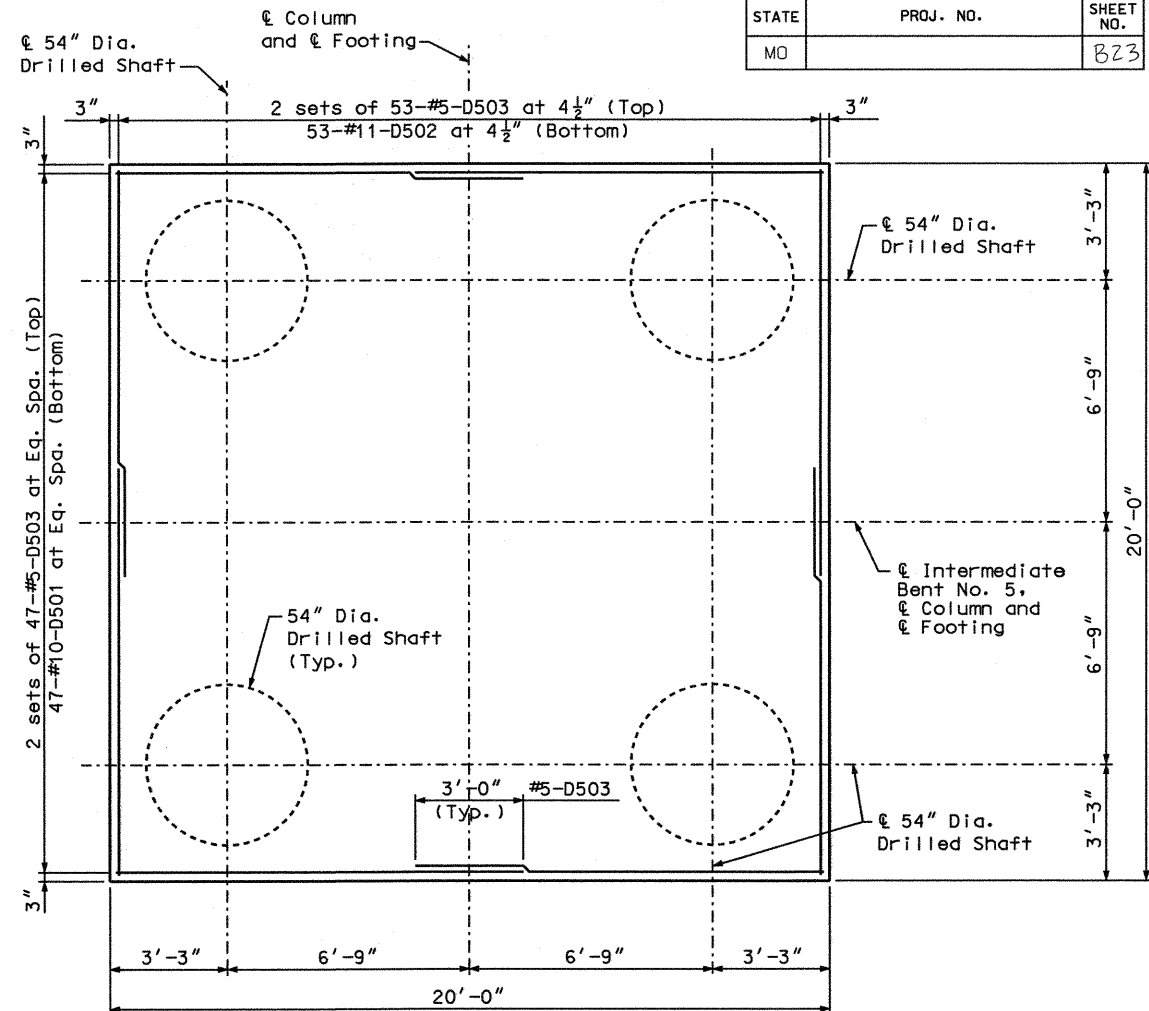
DETAIL OF ANCHOR BOLT WELLS



SECTION C-C



SECTION B-B



PLAN OF FOOTING
SHOWING DRILLED SHAFTS AND REINFORCEMENT

Substructure Quantity Table for Intermediate Bent No. 5

Item	Quantity
Class 1 Excavation	cu. yard 185
Drilled Shafts (4 ft. 6 in. Dia.)	linear foot 140.4
Rock Sockets (4 ft. 0 in. Dia.)	linear foot 72
Supplemental Television Camera Inspection	each 4
Foundation Inspection Holes	linear foot 112
Concrete Coring	linear foot 53.8
Sonic Logging Testing	each 4
Class B Concrete (Substructure)	cu. yard 244.7
Form Liner	sq. yard 54
Reinforcing Steel (Bridges)	pound 76,850

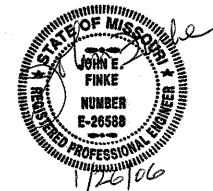
Note: These quantities are included in the Estimated Quantities Table on Sheet No. 5.

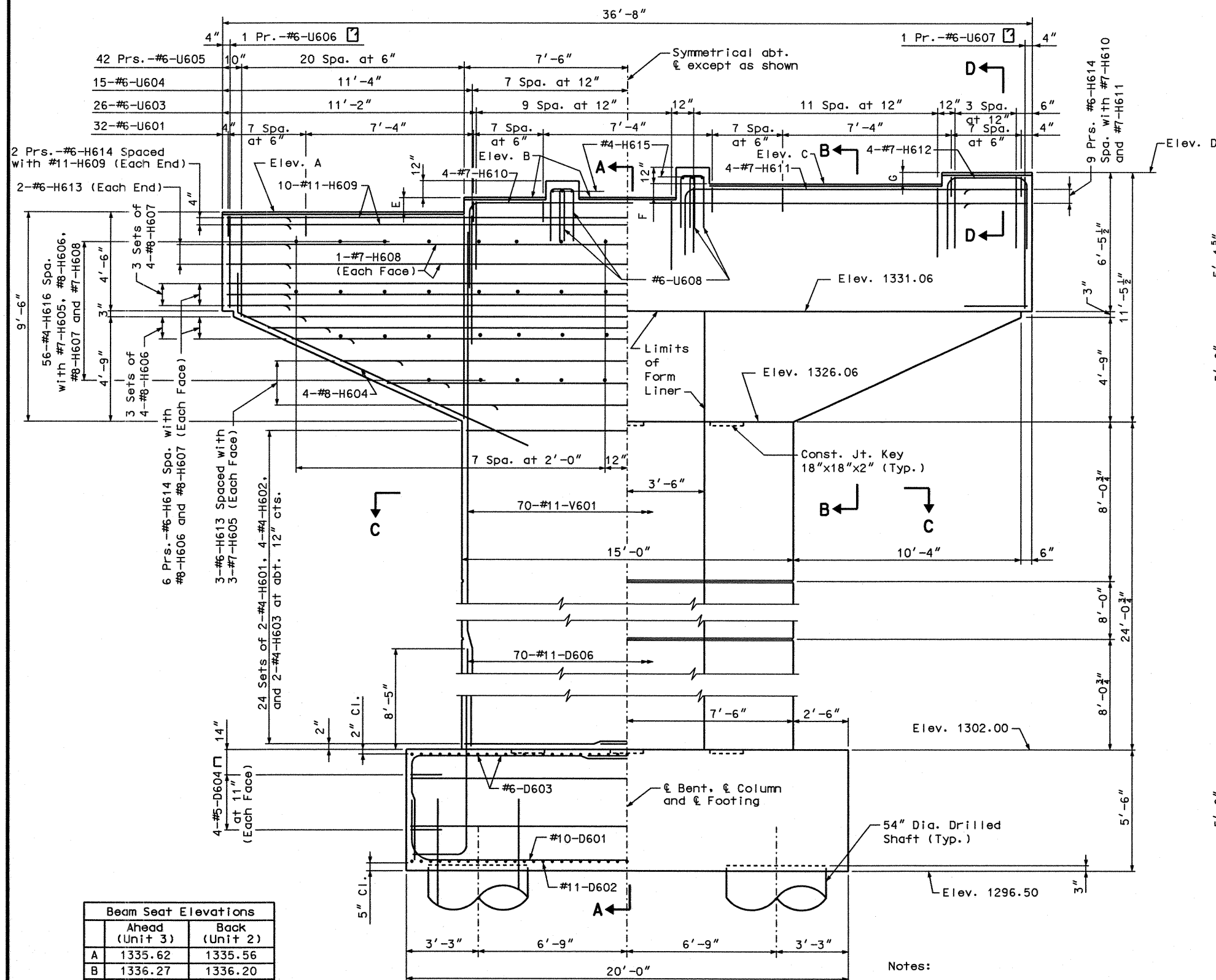
Notes:

For location of Sections B-B and C-C, see Sheet No. 22.

For Details of Drilled Shafts, see Sheet No. 32.

All reinforcing bars in the tops of substructure beams or caps shall be spaced to clear anchor bolt wells for bearings by at least 1/2".



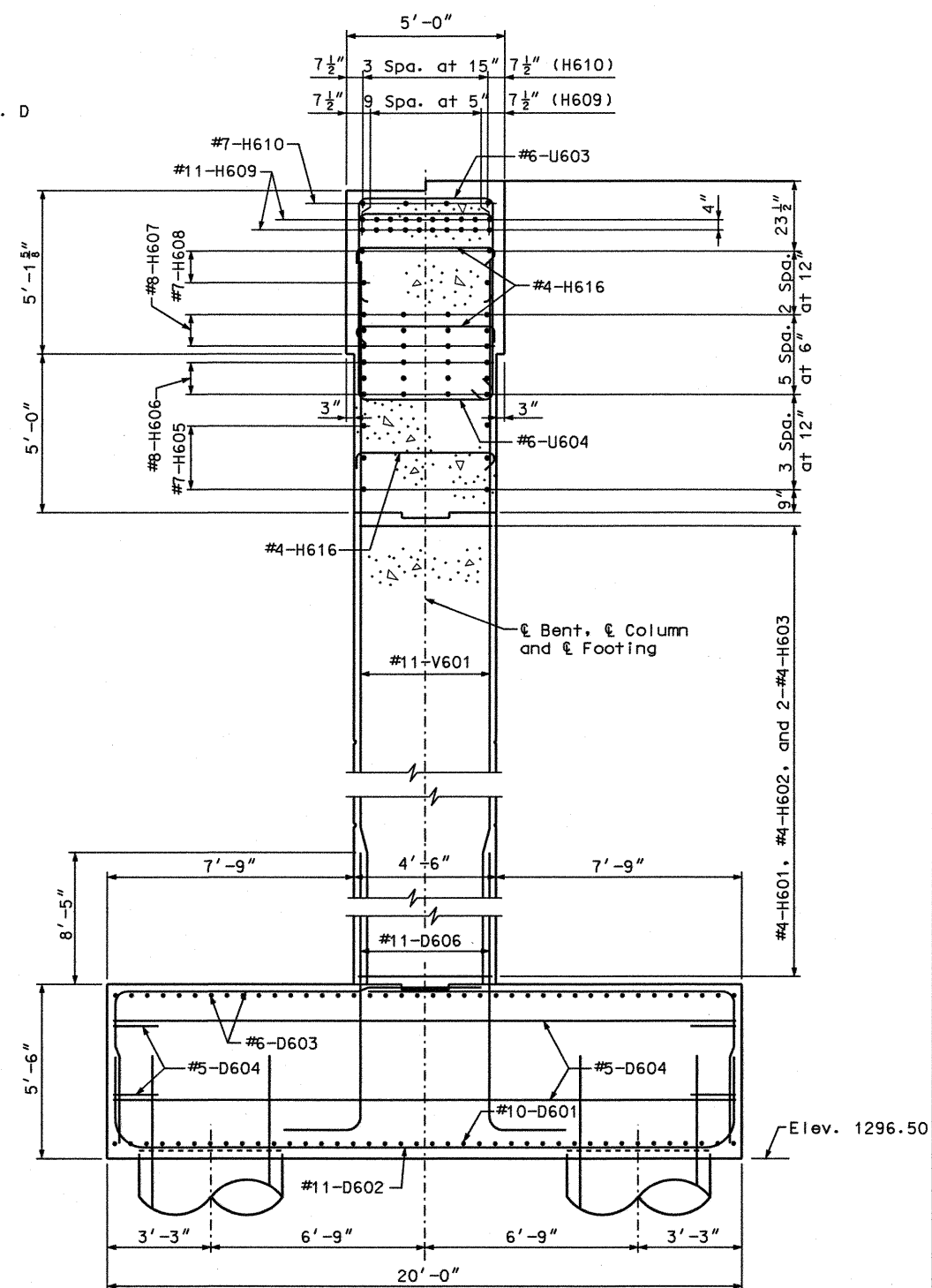


Beam Seat Elevations		
	Ahead (Unit 3)	Back (Unit 2)
A	1335.62	1335.56
B	1336.27	1336.20
C	1336.92	1336.77
D	1337.52	1337.34
Dimensions		
E	7 3/4"	7 5/8"
F	7 3/4"	6 1/2"
G	7 1/4"	6 7/8"

Note:
Slope beam cap to drain between bearings.
See Sheet No. 5 for limits of Protective Coating.

ELEVATION

- Notes:
- For Details of Laminated Neoprene Bearing Pad, see Sheet No. 36.
 - For Form Liner Details, see Sheet No. 33.
 - For Plan of Footing, see Sheet No. 25.
 - For Plan of Beam showing Bearings and Reinforcing, and Sections B-B and C-C, see Sheet 25.
 - For Details of Drilled Shafts, see Sheet No. 32.



SECTION A-A



PLAN

SECTION B-B

SECTION C-C

DETAIL OF ANCHOR BOLT WELLS

SECTION D-D

PLAN OF FOOTING SHOWING DRILLED SHAFTS AND REINFORCEMENT

Item	Quantity
Class 1 Excavation	cu. yard 160
Drilled Shafts (4 ft. 6 in. Dia.)	linear foot 136.2
Rock Sockets (4 ft. 0 in. Dia.)	linear foot 64
Supplemental Television Camera Inspection	each 4
Foundation Inspection Holes	linear foot 104
Concrete Coring	linear foot 51.0
Sonic Logging Testing	each 4
Class B Concrete (Substructure)	cu. yard 199.9
Form Liners	sq. yard 46
Reinforcing Steel (Bridges)	pound 57,700
Reinforcing Steel (Epoxy Coated)	pound 10,630

Note: These quantities are included in the Estimated Quantities Table on Sheet No. 5.

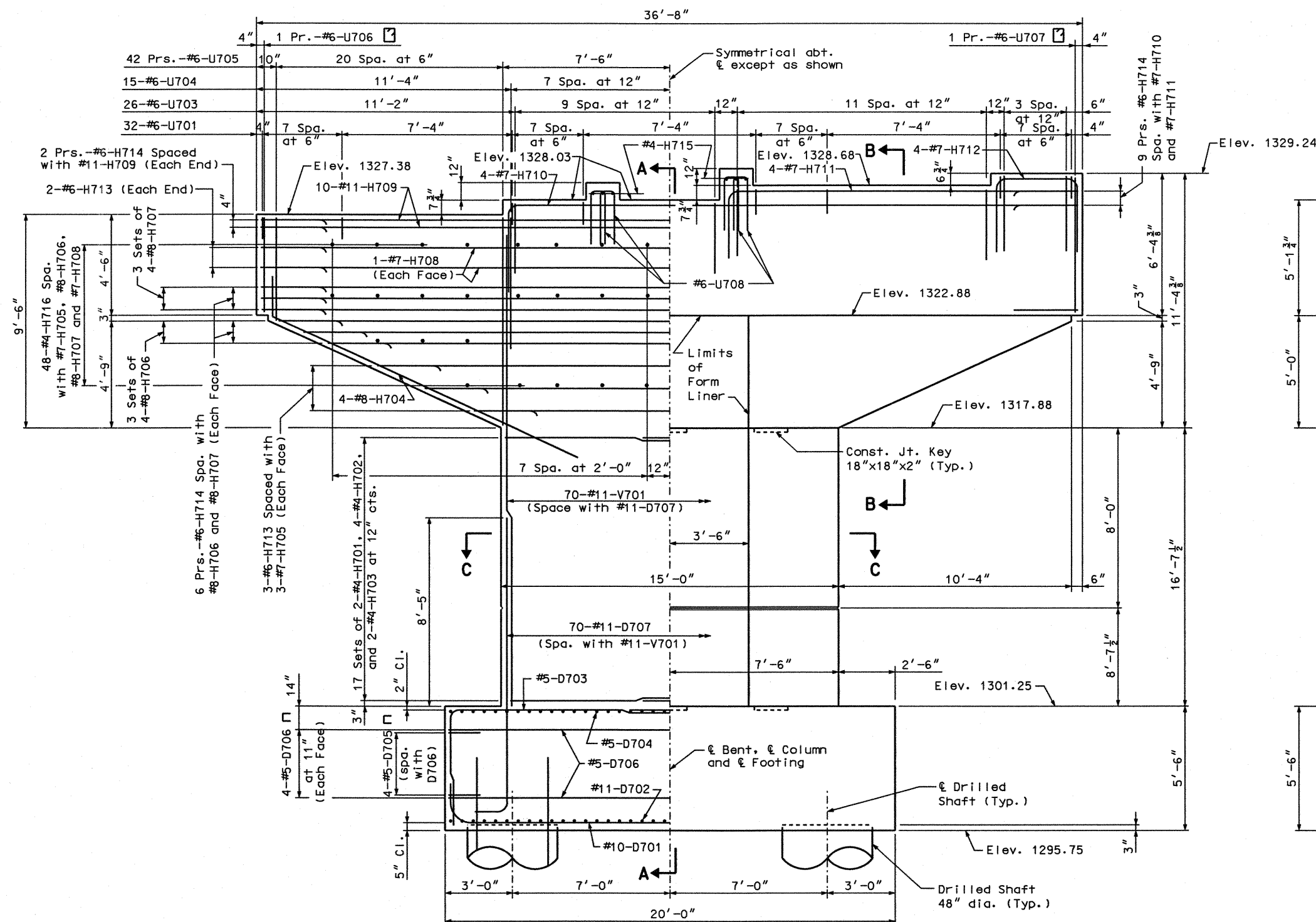
Notes:

For location of Section B-B and Section C-C, see Sheet No. 24.

For Details of Drilled Shafts, see Sheet No. 32.

All reinforcing bars in the tops of substructure beams or cap shall be spaced to clear anchor bolt wells for bearings by at least 1/2".





ELEVATION

Notes:

For Sections B-B and C-C, see Sheet No. 27.

For Form Liner Details, see Sheet No. 33.

For Footing Plan, of see Sheet No. 27.

For Details of Laminated Neoprene Bearing Pad, see Sheet No. 35.

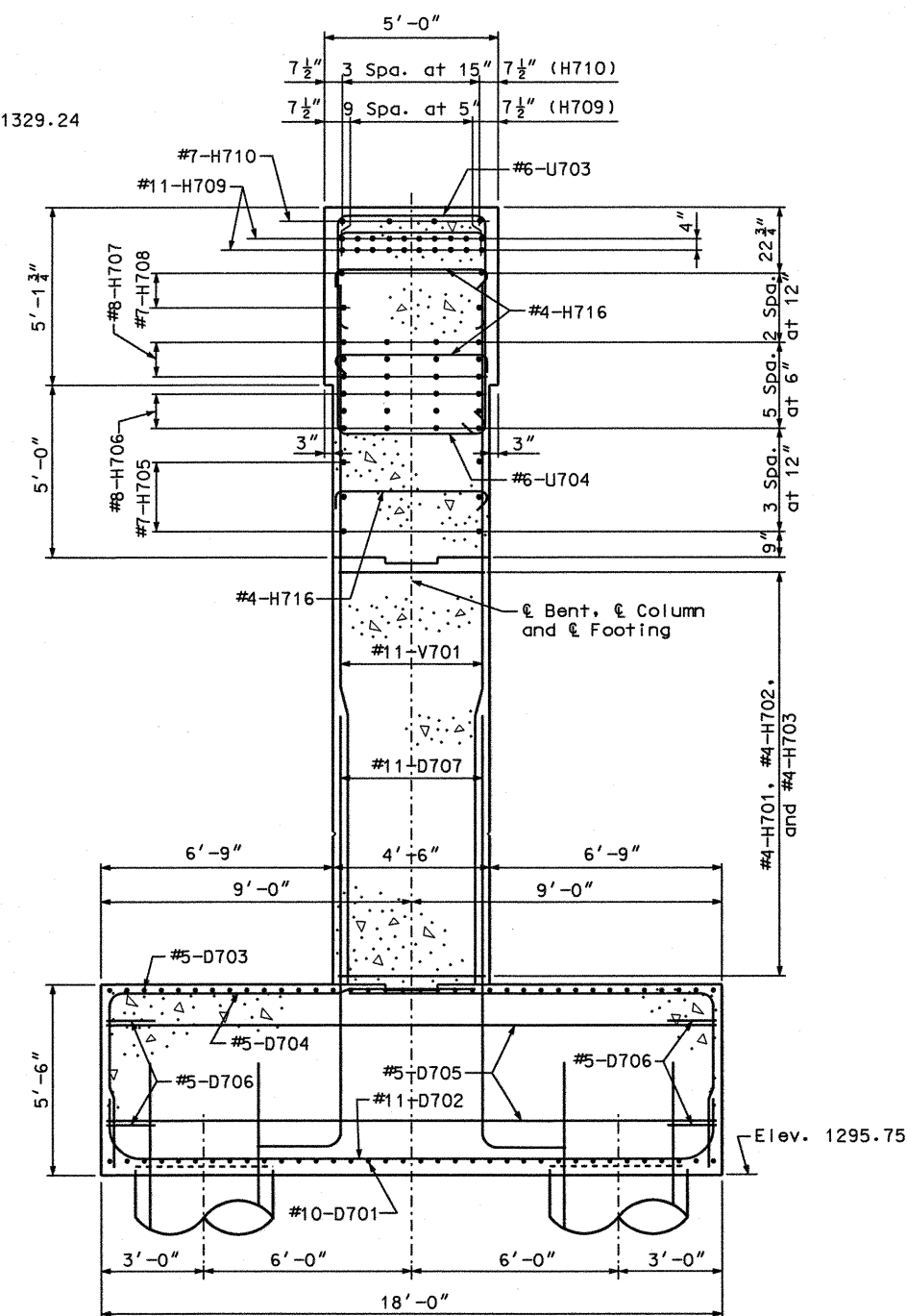
For Details of Drilled Shafts, see Sheet No. 32.

Substructure Quantity Table for Intermediate Bent No. 7

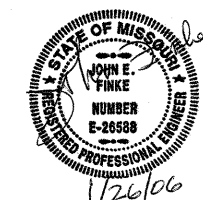
Item	Quantity
Class 1 Excavation	cu. yard 145
Drilled Shafts (4 ft. 0 in. Dia.)	linear foot 131.2
Rock Sockets (3 ft. 6 in. Dia.)	linear foot 64
Supplemental Television Camera Inspection	each 4
Foundation Inspection Holes	linear foot 104
Concrete Coring	linear foot 49.8
Sonic Logging Testing	each 4
Class B Concrete (Substructure)	cu. yard 172.5
Form Liners	sq. yard 34
Reinforcing Steel (Bridges)	pound 56,460

Note:

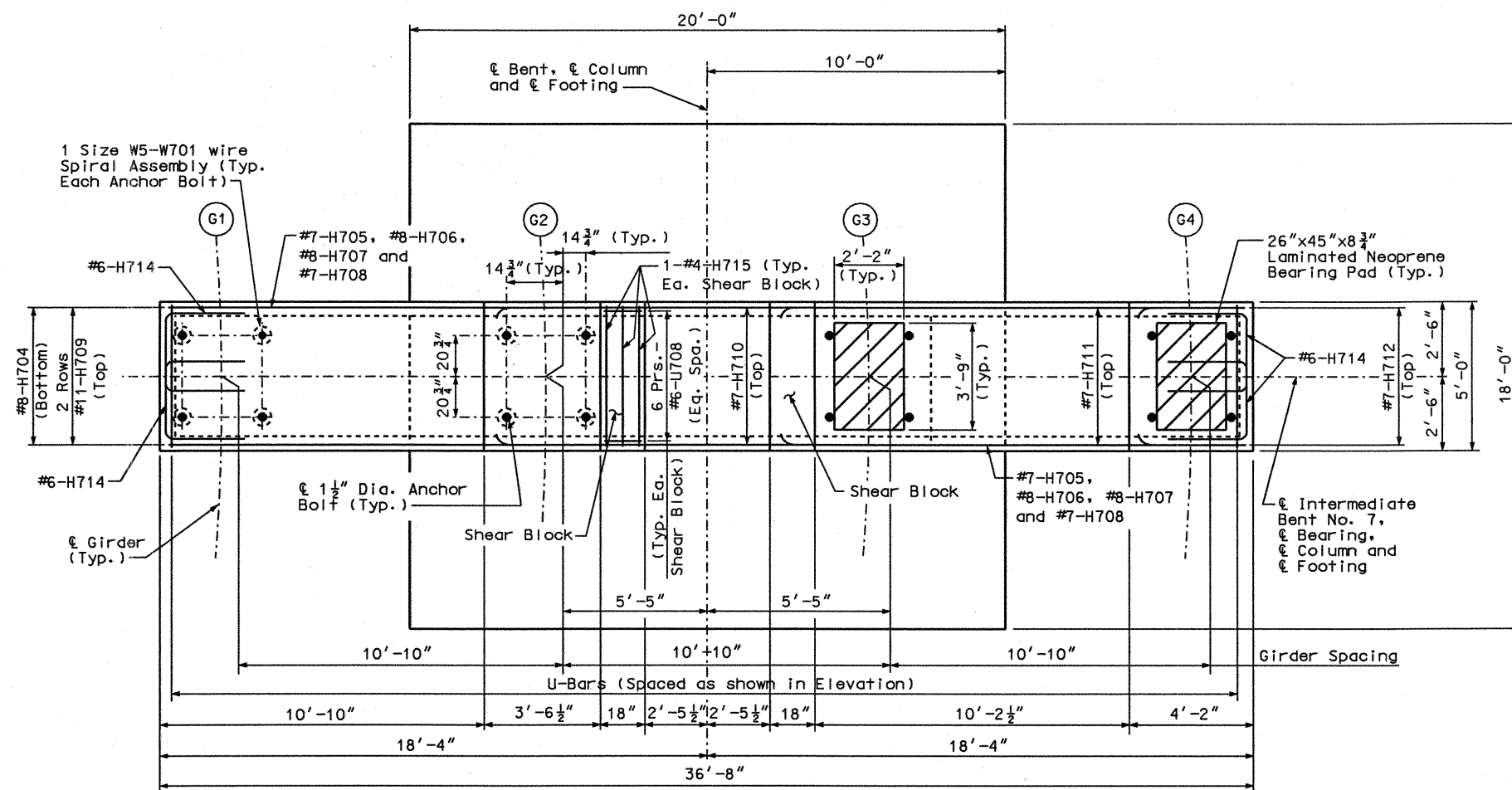
These quantities are included in the Estimated Quantities Table on Sheet No. 5.



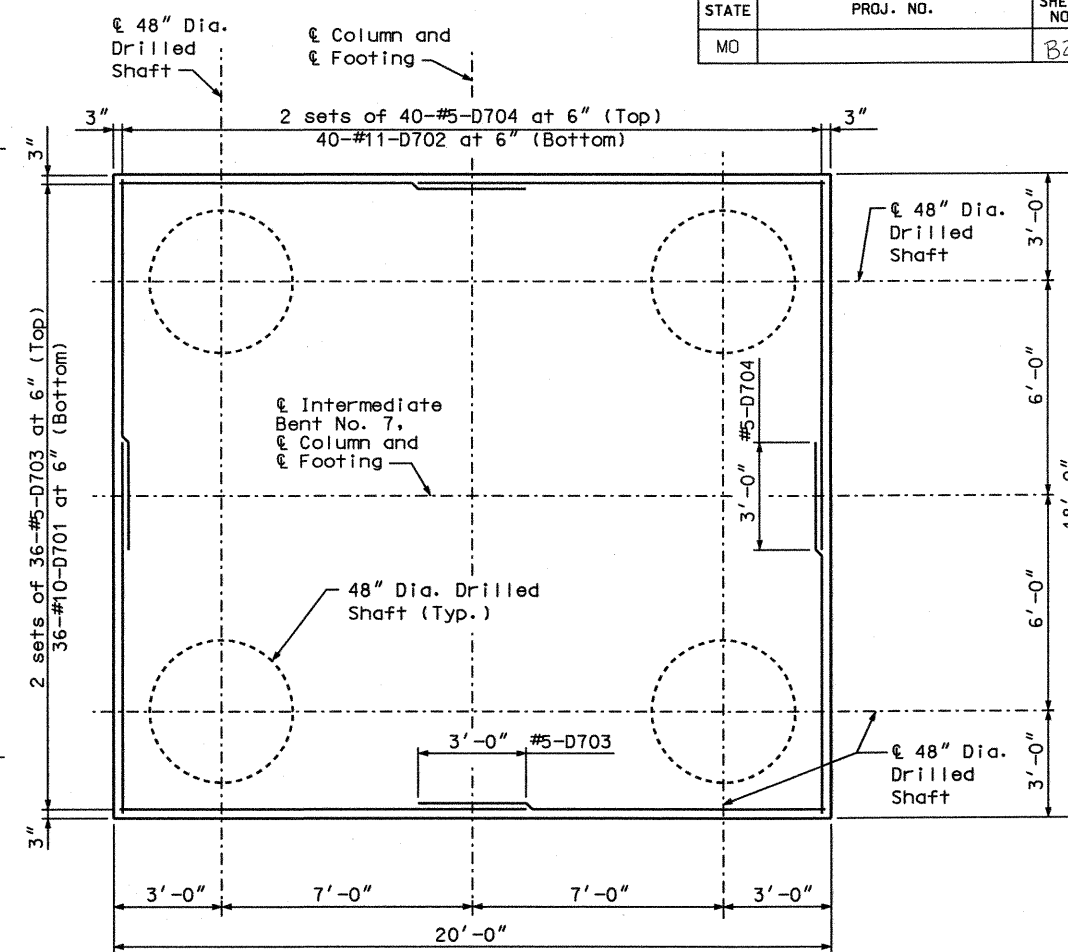
SECTION A-A



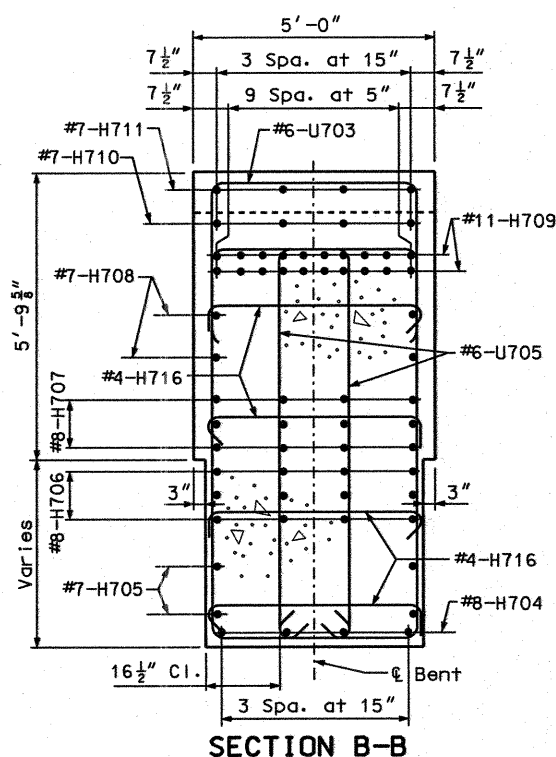
STATE	PROJ. NO.	SHEET NO.
MO		B27



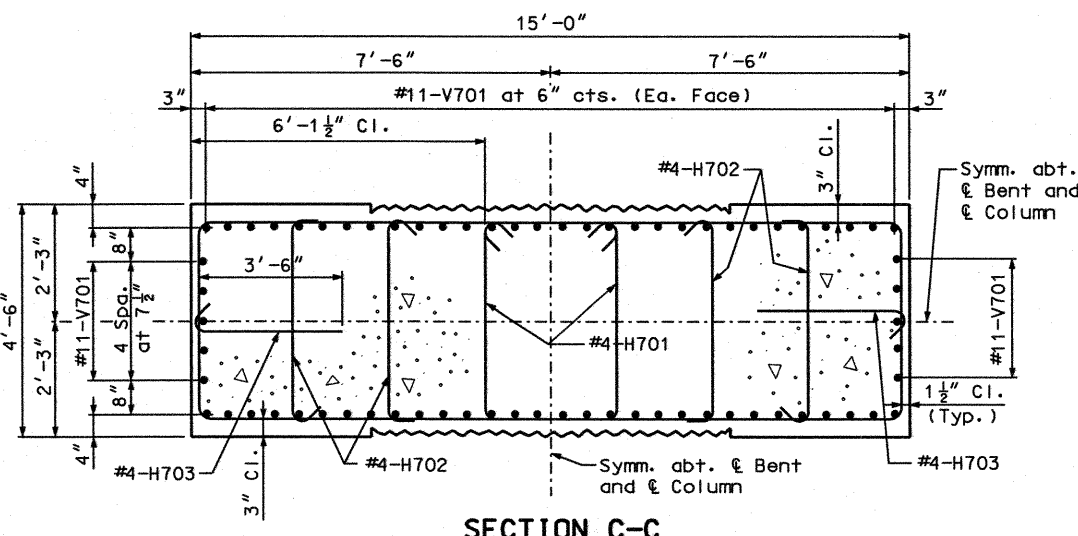
PLAN



PLAN OF FOOTING
SHOWING DRILLED SHAFTS AND REINFORCEMENT

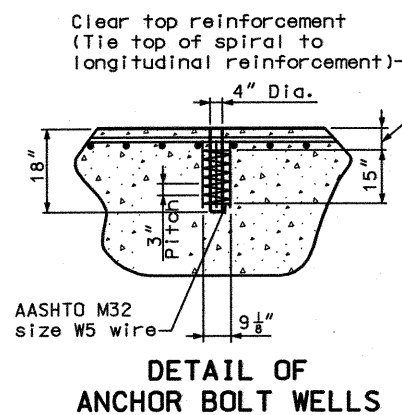


SECTION B-B



SECTION C-C

DETAILS OF INTERMEDIATE BENT NO. 7

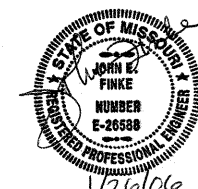


Notes:

For location of Sections B-B and C-C, see Sheet No. 26.

For Details of Drilled Shafts, see Sheet No. 32.

All reinforcing bars in the tops of substructure beams or cap shall be spaced to clear anchor bolt wells for bearings by at least 1/2".



DETAILED: SEM JULY 2005
CHECKED: RDR DEC. 2005

JACOBS CIVIL INC.
ST. LOUIS, MO.

SHEET NO. 27 OF 77

GREENE COUNTY

A7024

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10:59 25-JAN-2006

Tapered Shim
 $\frac{1}{8}$ " Min., $\frac{7}{16}$ " Max.

Ahd. Sta.

7"

7"

Bearing

$1 \frac{3}{8}$ "

$1 \frac{1}{4}$ "

$\frac{1}{2}$ "

$\frac{1}{4}$ "

$\frac{1}{8}$ " Min.
 (Typ.)

Diagram illustrating a T-joint with dimensions and symbols:

- Top flange width: 6"
- Top flange thickness: 3"
- Web thickness: 3"
- Web height: 3"
- Joint symbols: Δ (Key) and ∇ (Bent)
- Legend: Δ Key and ∇ Bent

[illegible]

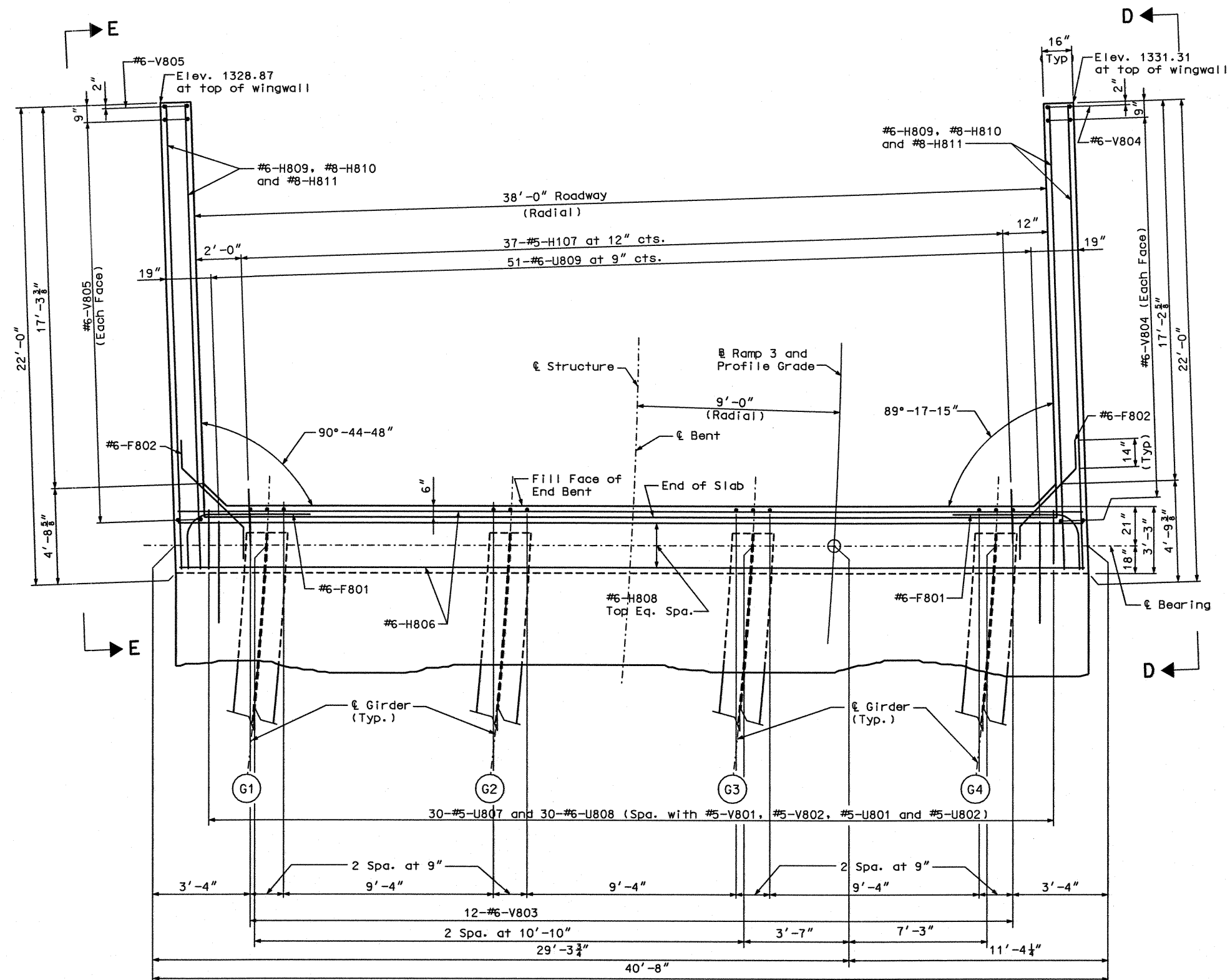
Line	Notes	Stationing
5-#5-U806		35'-4"
4-#5-U805		24'-10"
5-#5-U804		13'-10"
4-#5-U803		3'-4"
4-#5-V802 Ea. Face		29'-4"
7-#5-U802		27'-4"
6-#5-V801 Ea. Face		16"
13-#5-U801		4"

Substructure Quantity Table for End Bent No. 8		
Item		Quantity
Micro Piles (9.625 in.)	each	5
Loading Tests	each	1
Class B Concrete (Substructure)	cu. yard	29

Notes:

STATE OF MISSOURI
JOHN E. FINKE
NUMBER
E-26588
REGISTERED PROFESSIONAL ENGINEER
1/26/06

STATE	PROJ. NO.	SHEET NO.
MO		629

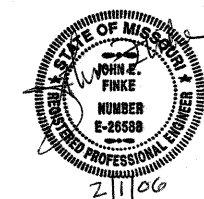


PART PLAN

DETAILS OF END BENT NO. 8

Notes:

- For details of End Bent No. 8 not shown, see Sheet Nos. 28, 30 and 31.
- For Elevations D-D and E-E see Sheet No. 31.
- Bend F-802 Bars in Field to clear Girder
- For details of Approach Slab, see Sheet No. 70.
- For details of Vertical Drain at End Bent, see Sheet No. 34.
- Concrete diaphragms at the integral end bents shall be poured a minimum of 12 hours before the slab is poured.



DETAILED: EAK SEP. 2005
CHECKED: SEM NOV. 2005

JACOBS CIVIL INC.
ST. LOUIS, MO.

SHEET NO. 29 OF 77

GREENE COUNTY

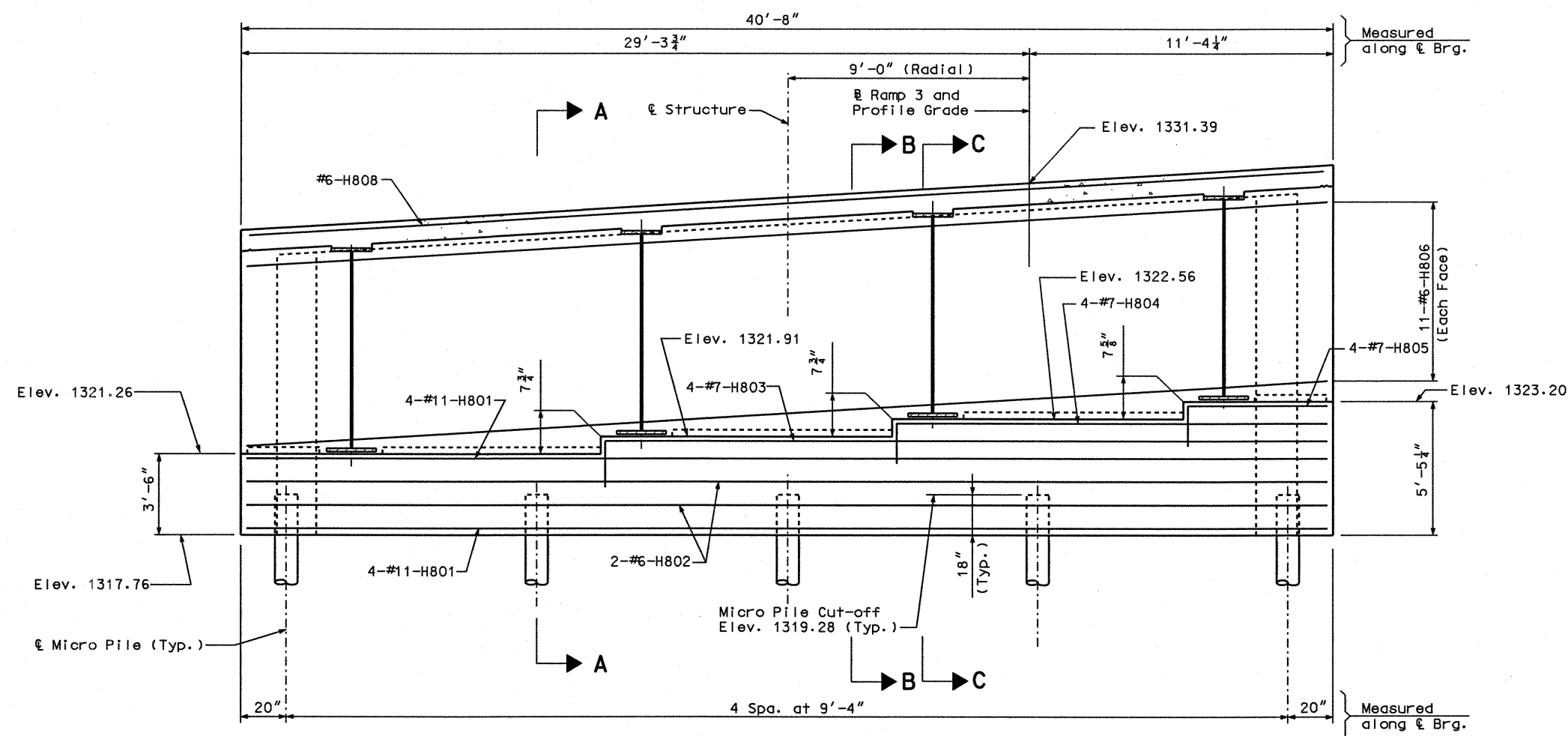
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11:42 01-FEB-2006

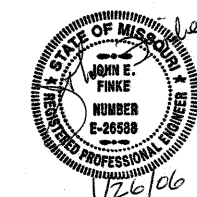
REV.

STATE	PROJ. NO.	SHEET NO.
MO		330



SECTION NEAR END BENT
Elevations at top of slab are at Slab edge.

- Notes:
- For details of End Bent No. 8 not shown, see Sheet Nos. 28, 29 and 31.
 - For details of Approach Slab, see Sheet No. 70.
 - For details of Vertical Drain at End Bent, see Sheet No. 34.
 - All concrete in the End Bent above the top of Beam and below top of Slab shall be Class B-2.
 - Concrete Diaphragms at Integral End Bents shall be poured a minimum of 12 hours before the Slab is poured.
 - Reinforcing in the end bent shall be placed parallel to & Ramp 3.
 - For Micro Pile Details, see Sheet No. 33.



DETAILED: EAK SEP. 2005
CHECKED: JEF DEC. 2005

JACOBS CIVIL INC.
ST. LOUIS, MO.

DETAILS OF END BENT NO. 8

SHEET NO. 30 OF 77
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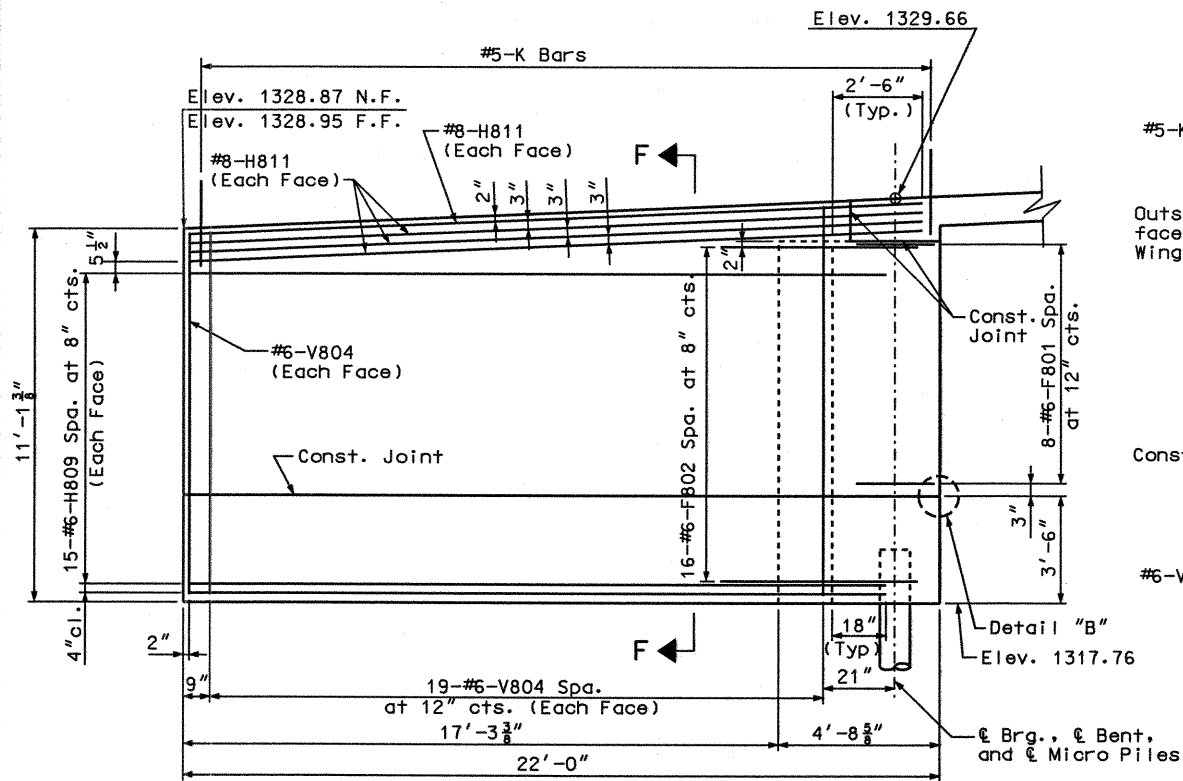
GREENE COUNTY

A7024

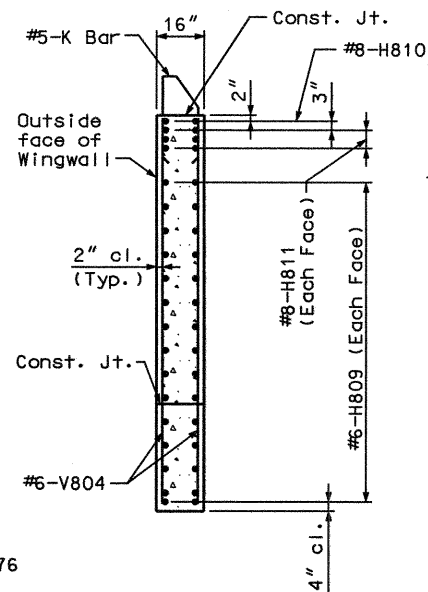
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REV.

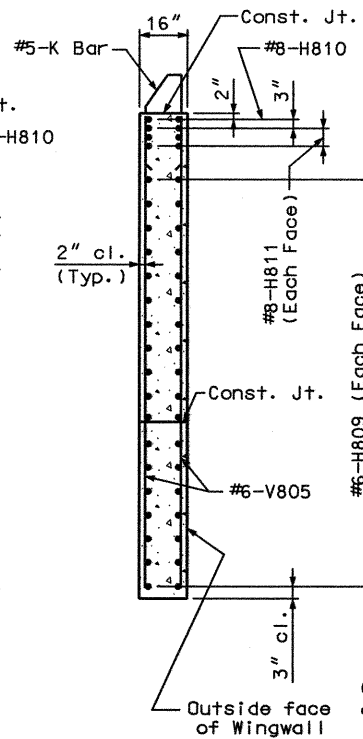
STATE	PROJ. NO.	SHEET NO.
MO		331



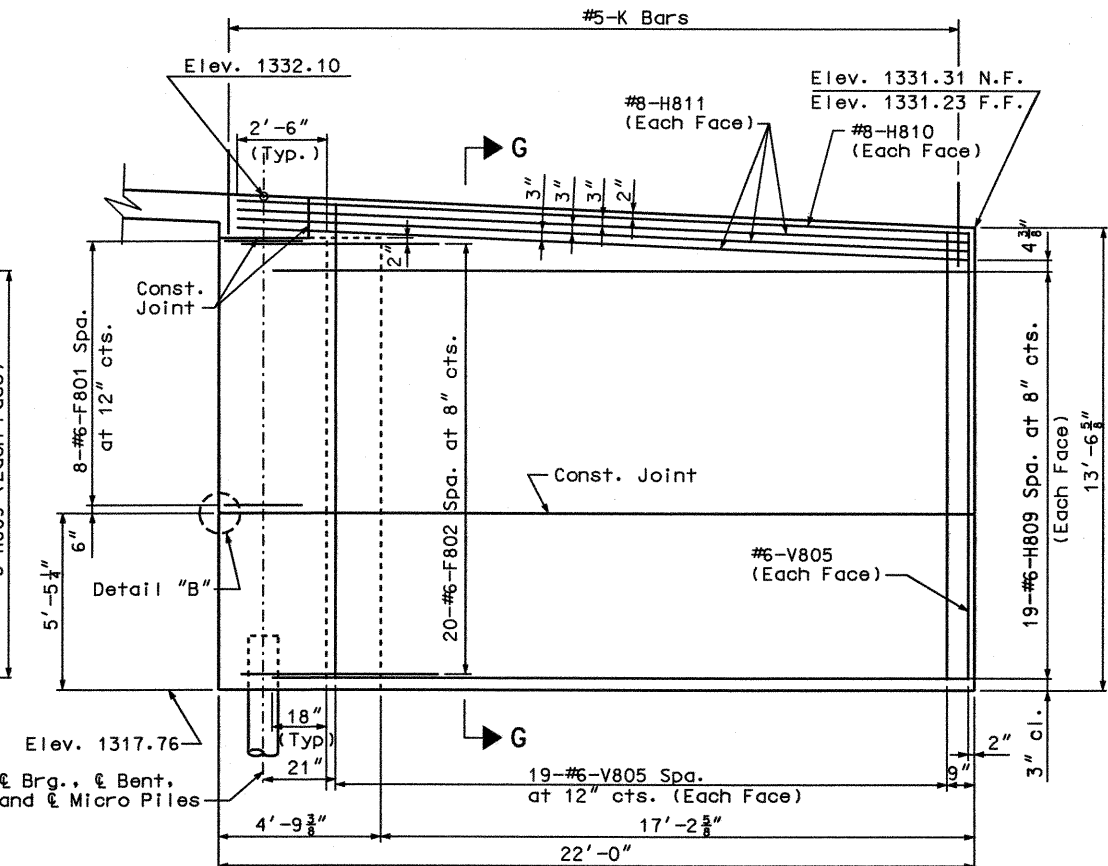
ELEVATION E-E



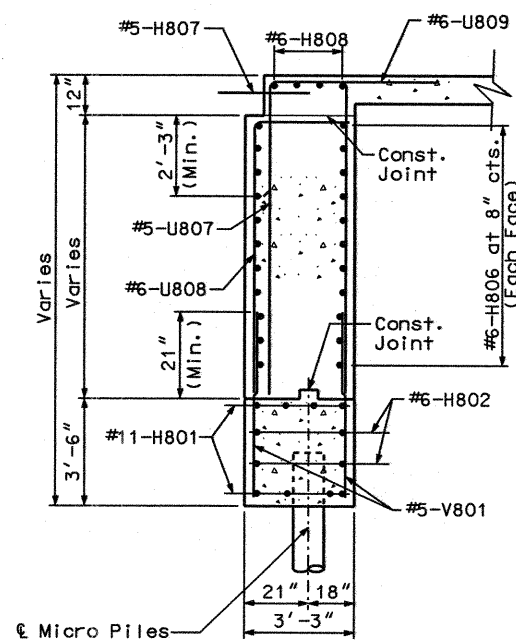
SECTION F-F



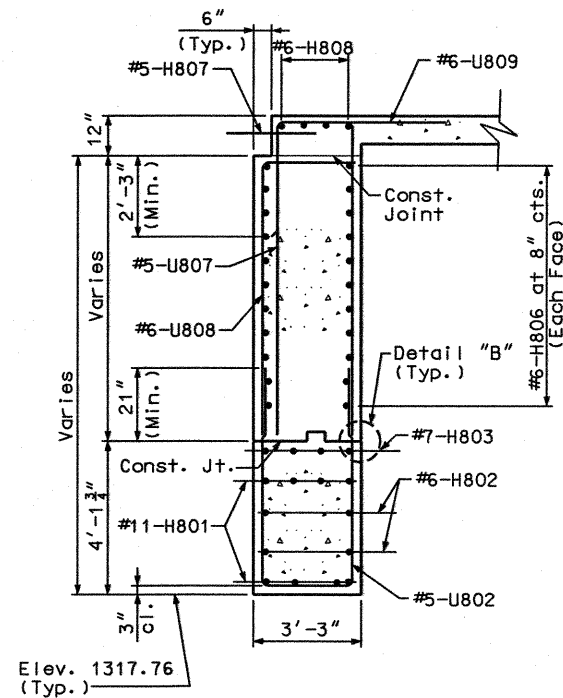
SECTION G-G



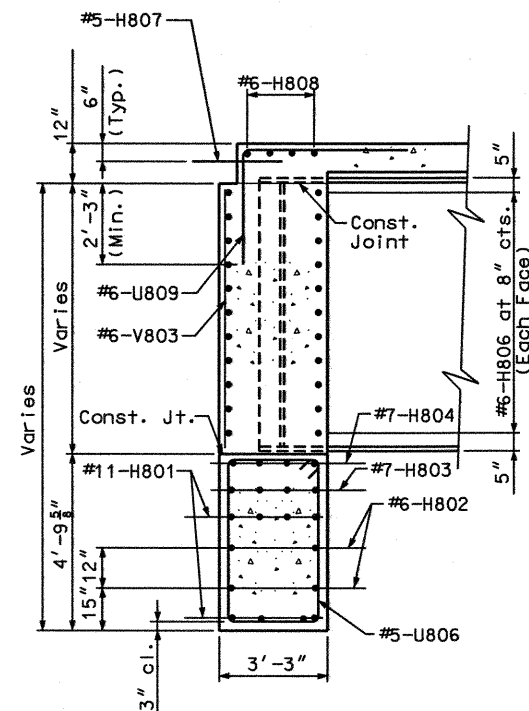
ELEVATION D-D



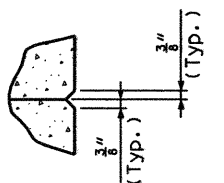
SECTION A-A



SECTION B-B

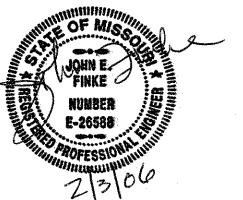


SECTION C-C



DETAIL "B"

- Notes:
- For location of Elevation D-D and E-E, see Sheet No. 29.
 - For reinforcement of Safety Barrier Curb, see Sheet No. 67.
 - For locations of Sections A-A, B-B and C-C see Sheet No. 30.
 - For details of End Bent No. 8 not shown, see Sheet Nos. 28 thru 30.
 - For Micro Pile Details, see Sheet No. 33.



DETAILED: EAK SEP. 2005
CHECKED: SEM NOV. 2005

JACOBS CIVIL INC.
ST. LOUIS, MO.

DETAILS OF END BENT NO. 8

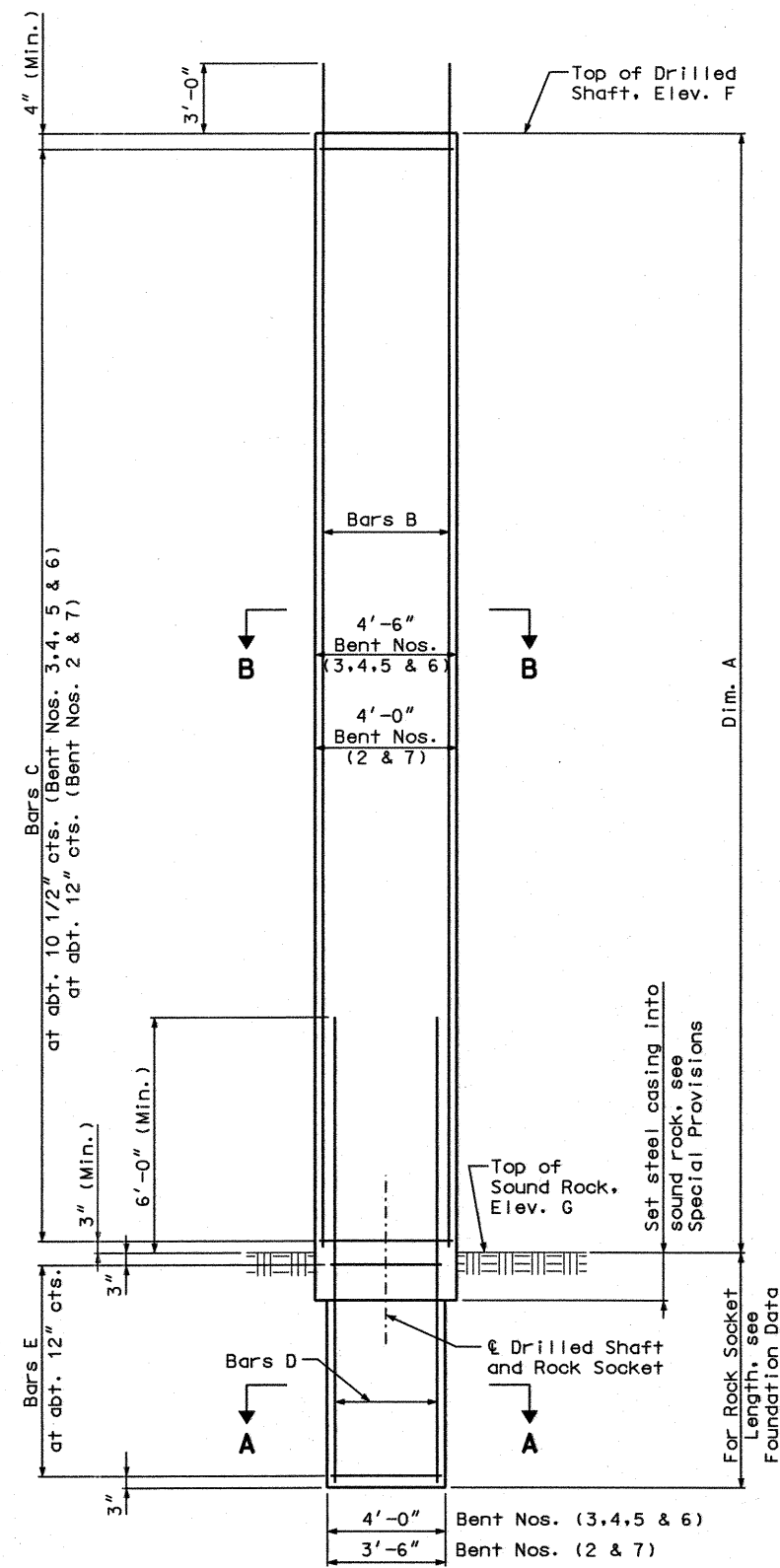
SHEET NO. 31 OF 77

GREENE COUNTY

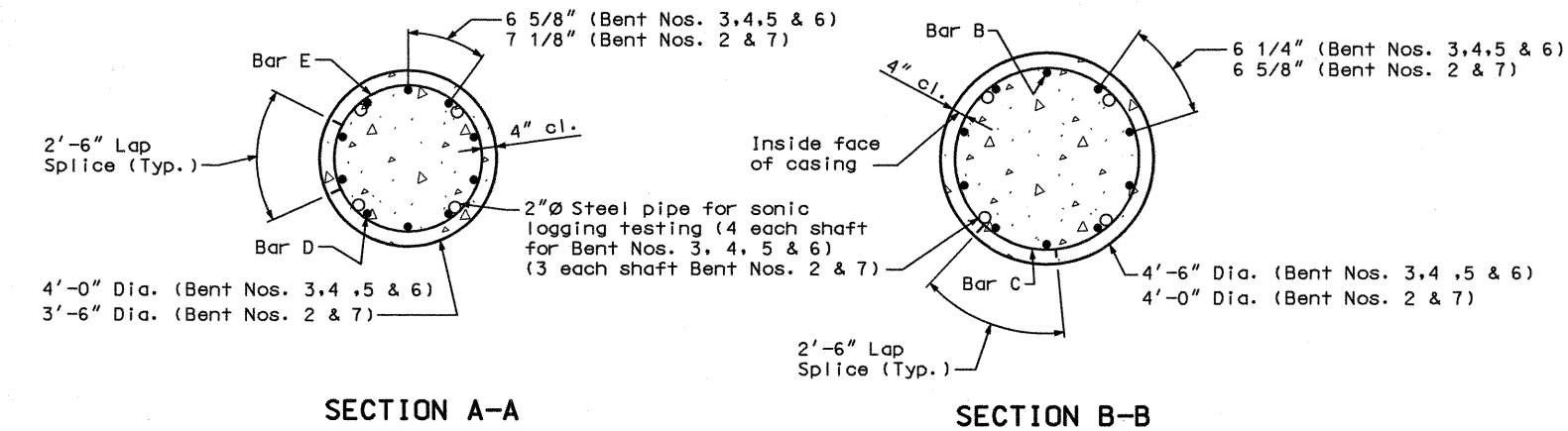
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ELEVATION OF DRILLED SHAFT AND ROCK SOCKET



Foundation Data													
	Item Description	Inter. Bent No. 2		Inter. Bent No. 3		Inter. Bent No. 4		Inter. Bent No. 5		Inter. Bent No. 6		Inter. Bent No. 7	
		Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
Drilled Shaft	Approximate Length	foot	18	15	22	20	21	16	35	36	35	34	33
	Number		2	2	2	2	2	2	2	2	2	2	2
Rock Socket	Approximate Length		16.0	16.0	15.0	15.0	18.0	18.0	18.0	16.0	16.0	16.0	16.0
	Foundation Material	foot	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock
	Number		2	2	2	2	2	2	2	2	2	2	2
	Design Side Friction	tsf	4.34	4.34	4.36	4.36	4.45	4.45	4.37	4.37	4.16	4.16	4.45

Drilled Shaft Table									
		Shaft No.	Dim. A	Bars B	Bars C	Bars D	Bars E	Elev. F	Elev. G
Inter. Bent No. 2	(Lt.)	6 & 8	17.1	18 #9-V202	19 #5-P201	14 #9-V204	16 #5-P202	1309.75	1292.7
	(Rt.)	7 & 9	15.0	18 #9-V203	15 #5-P201	14 #9-V204	16 #5-P202	1309.75	1294.8
Inter. Bent No. 3	(Lt.)	10 & 12	21.3	22 #9-V302	24 #5-P301	18 #9-V304	15 #5-P302	1311.75	1290.5
	(Rt.)	11 & 13	19.8	22 #9-V303	22 #5-P301	18 #9-V304	15 #5-P302	1311.75	1291.9
Inter. Bent No. 4	(Lt.)	14 & 36	20.6	22 #9-V402	23 #5-P401	18 #9-V404	18 #5-P402	1314.50	1293.9
	(Rt.)	15 & 37	15.9	22 #9-V403	18 #5-P401	18 #9-V404	18 #5-P402	1314.50	1298.6
Inter. Bent No. 5	(Lt.)	18 & 20	34.8	22 #9-V502	40 #5-P501	18 #9-V504	18 #5-P502	1297.50	1262.7
	(Rt.)	19 & 21	35.4	22 #9-V503	40 #5-P501	18 #9-V504	18 #5-P502	1297.50	1262.1
Inter. Bent No. 6	(Lt.)	22 & 24	34.1	22 #9-V602	39 #5-P601	18 #9-V604	16 #5-P602	1296.75	1262.7
	(Rt.)	23 & 25	34.0	22 #9-V603	39 #5-P601	18 #9-V604	16 #5-P602	1296.75	1262.8
Inter. Bent No. 7	(Lt.)	26 & 28	33.0	18 #9-V702	34 #5-P701	14 #9-V704	16 #5-P702	1296.00	1263.0
	(Rt.)	27 & 29	33.0	18 #9-V703	33 #5-P701	14 #9-V704	16 #5-P702	1296.00	1263.0

Notes:

The top of sound rock elevation is an assumed elevation determined from the borings. The pay length shown is based on this assumed top of rock elevation.

Permanent steel casing may be required, see special provisions.

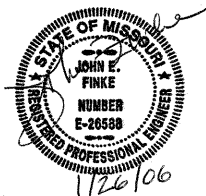
An additional 4 feet has been added to B and D-bar lengths for possible change in drilled shaft or rock socket depth. This excess length shall be cut-off or included in the reinforcement lap if not required.

Concrete coring shall be performed on one shaft per bent in accordance with Sec 701. Sonic logging testing shall be performed on all drilled shafts and rock sockets.

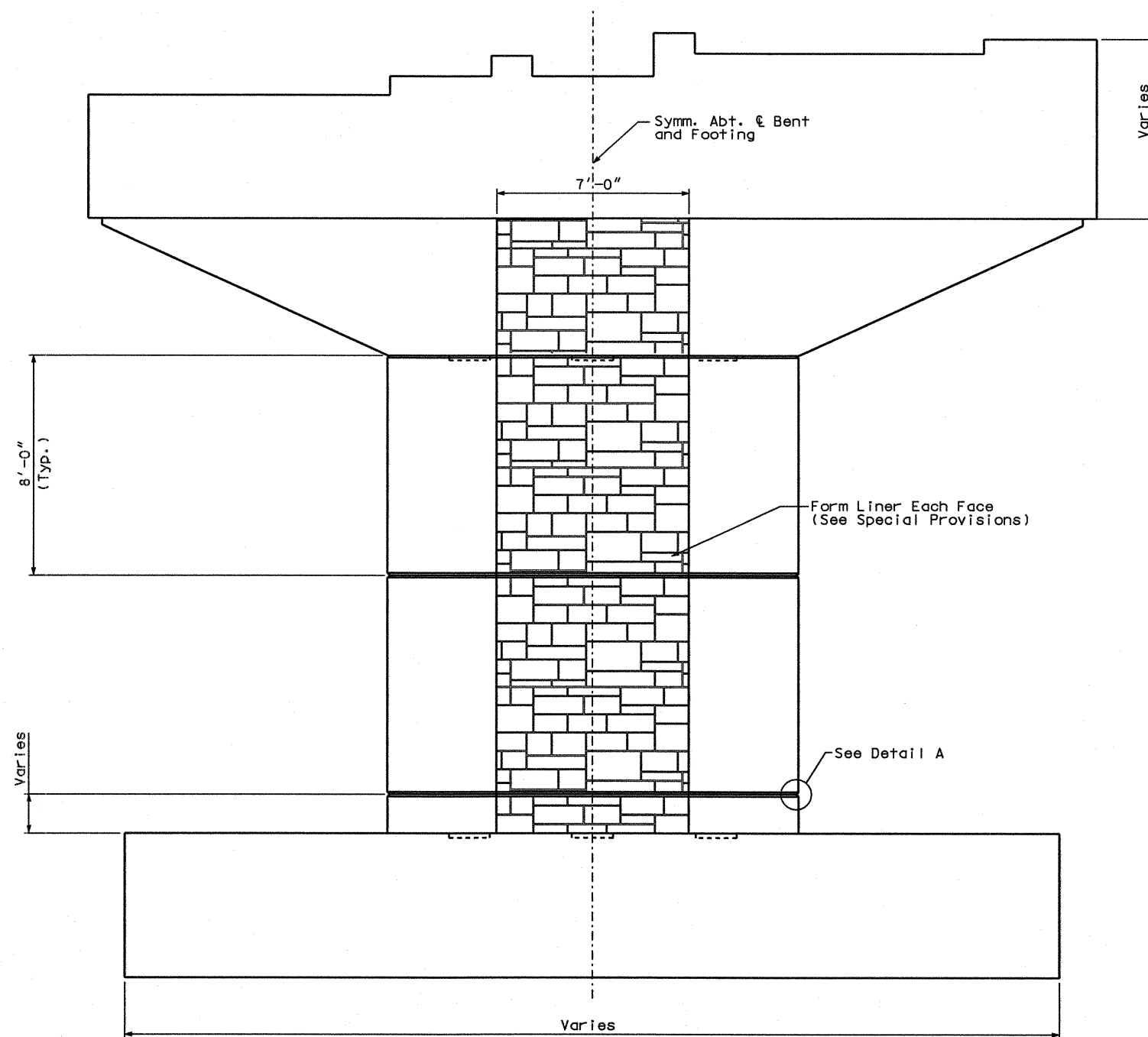
For Estimated Quantities, see Sheet No. 5.

For location of drilled shaft numbers, see Sheet Nos. 76 and 77.

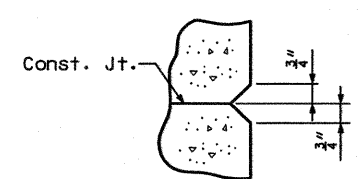
The thickness of the steel casing shall meet all the requirements of Sec. 701 with the minimum thickness being 1/2 inch.



DETAILS OF DRILLED SHAFTS



ELEVATION - INTERMEDIATE BENT NOS. 2 THRU 7

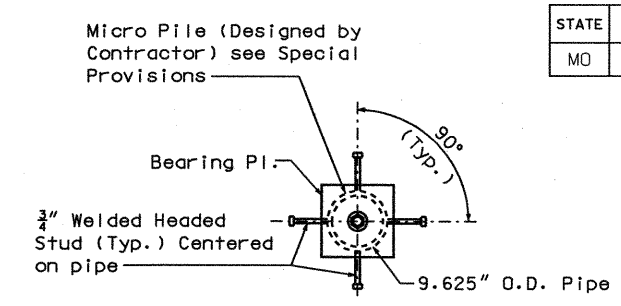


DETAIL "A"

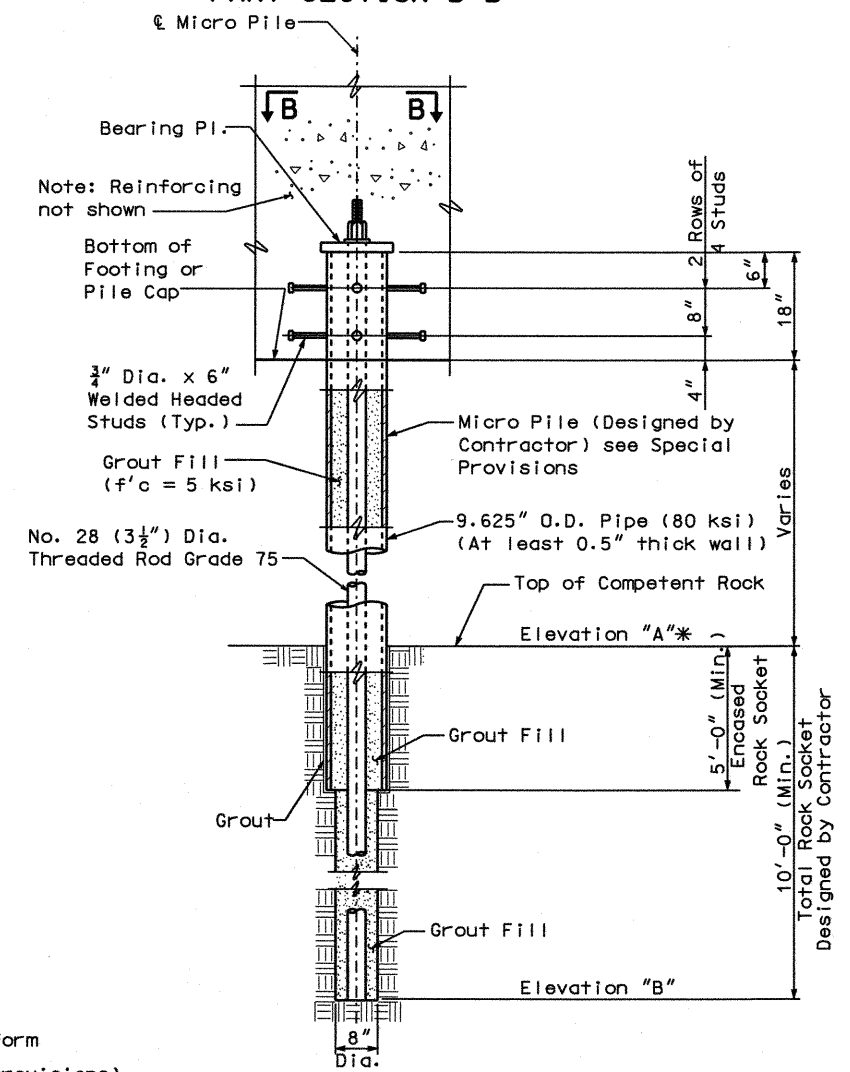
ELEVATION CHART		
Bent No.	Elevation "A"	Elevation "B"
1	1,297 (1,290 to 1,303)	1287 (1,280 to 1,293)
8	1,263	1,253

* Expect coring through limestone ledges and solutioned zones above top of competent rock.

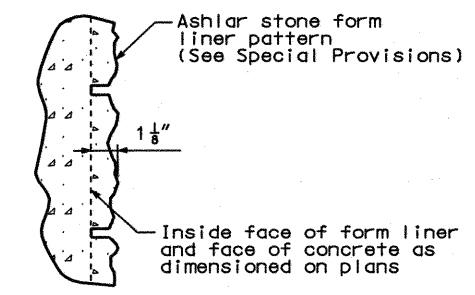
DETAILS OF FORM LINER - INTERMEDIATE BENTS



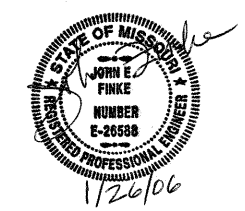
PART SECTION B-B



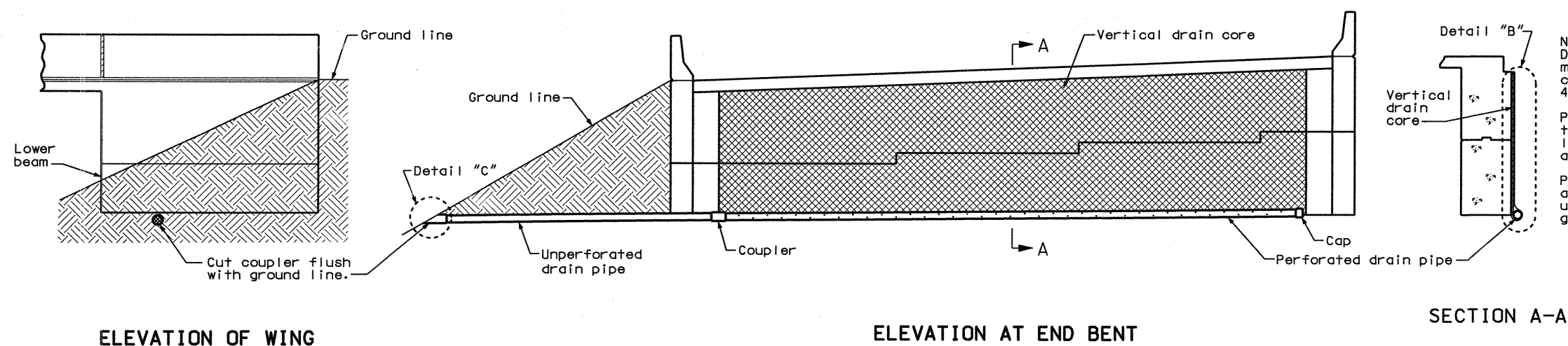
MICRO PILE DETAIL



TYPICAL PART SECTION AT FORM LINER



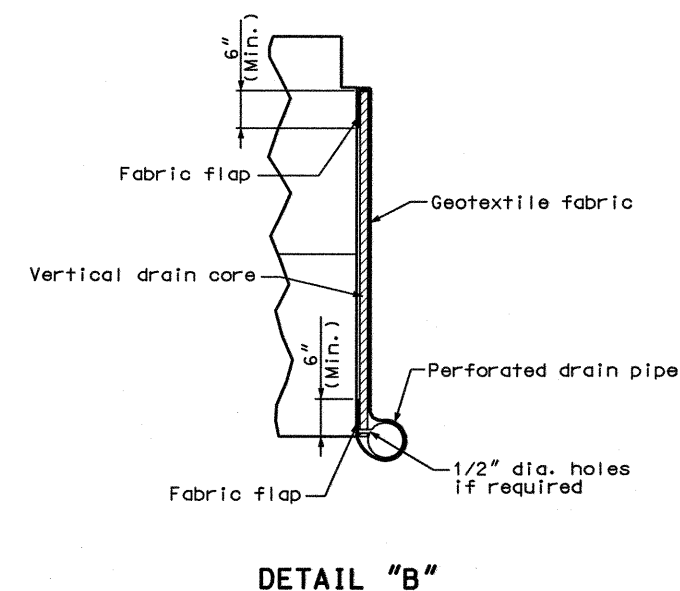
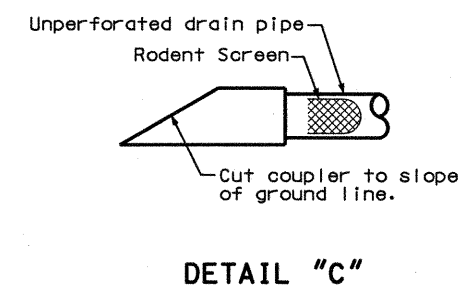
STATE	PROJ. NO.	SHEET NO.
MO		834



Note:
 Drain pipe may be either 6" diameter corrugated metallic-coated steel pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.

Place drain pipe at fill face of end bent and slope to lowest grade of ground line, also missing the lower beam of end bent by 1-1/2". (See elevation at end bent.)

Perforated pipe shall be placed at fill face side at the bottom of end bent and plain pipe shall be used where the vertical drain ends to the exit at ground line.



VERTICAL DRAINS AT END BENTS

DETAILED: JOS OCT. 2005
 CHECKED: BCK JAN. 2006

JACOBS CIVIL INC.
 ST. LOUIS, MO.

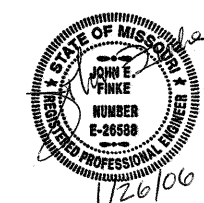
SHEET NO. 34 OF 77

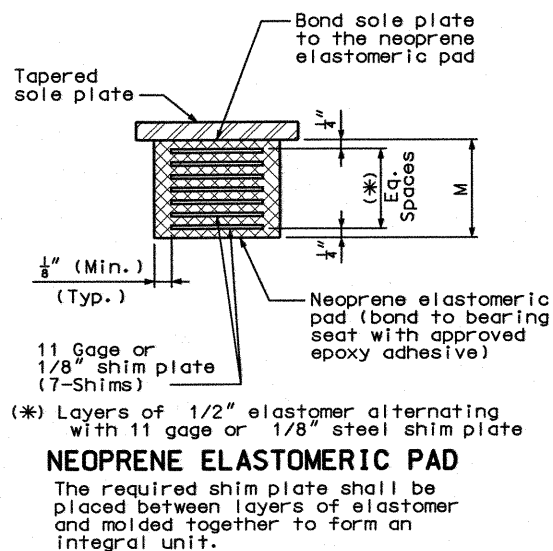
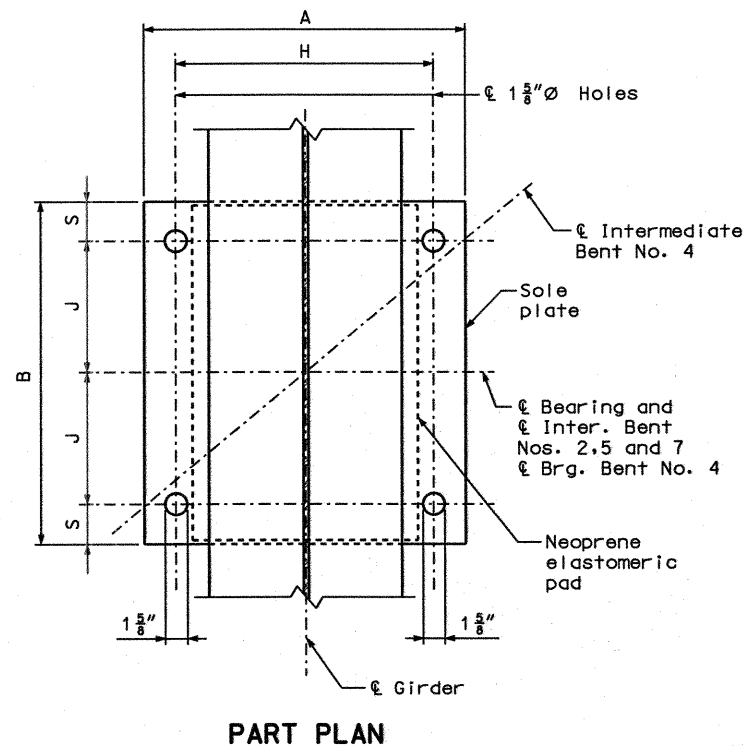
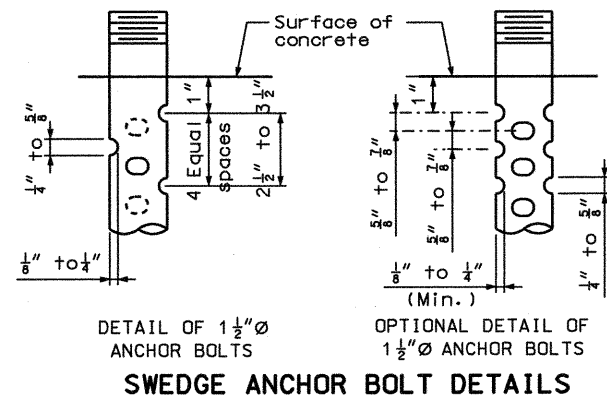
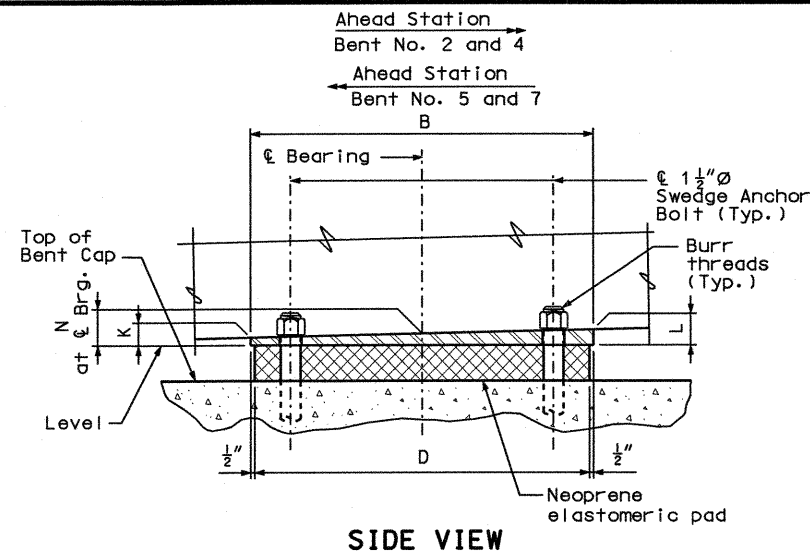
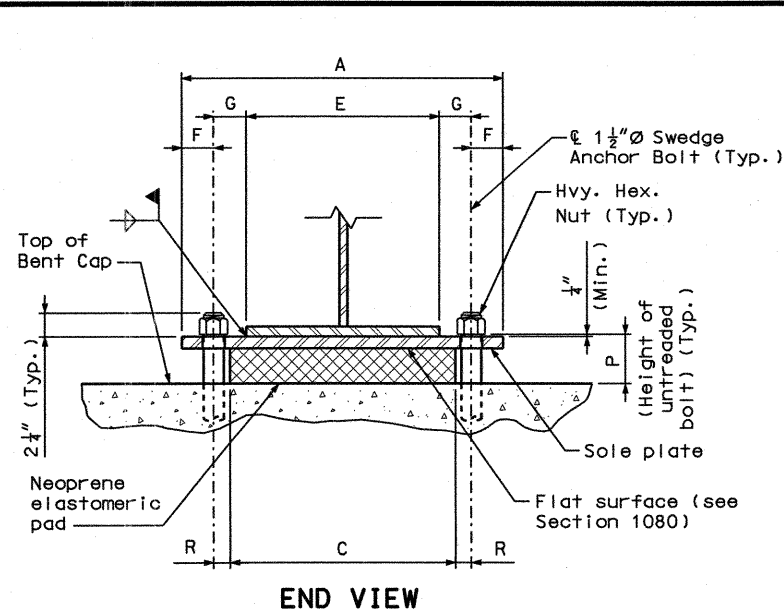
GREENE COUNTY

A7024

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FIXED BEARINGS																				
UNIT NO.	GDR. NO.	VARIABLE DIMENSION (IN.)																	NO. OF SHIM PLATES	NO. REQD.
		A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S			
BENT NO. 2	1	1	34	46	26	45	24	2¼	2¾	29½	20¾	1⅙	2⅙	8¾	2	11	1¾	2¼	14	1
	1	2	34	46	26	45	24	2¼	2¾	29½	20¾	1⅙	2⅙	8¾	2	11	1¾	2¼	14	1
	1	3	34	46	26	45	24	2¼	2¾	29½	20¾	1⅙	2⅙	8¾	2	11	1¾	2¼	14	1
	1	4	34	46	26	45	24	2¼	2¾	29½	20¾	1⅙	2⅙	8¾	2	11	1¾	2¼	14	1
BENT NO. 4	2	1	39	29	28	28	24	2¼	5¼	34½	12¼	1½	1½	6¼	1½	8	3¼	2¼	10	1
	2	2	39	47	31	46	24	2¼	5¼	34½	12¼	1½	1½	6¼	1½	8	1¾	11¼	10	1
	2	3	39	47	31	46	24	2¼	5¼	34½	12¼	1½	1½	6¼	1½	8	1¾	11¼	10	1
	2	4	39	29	28	28	24	2¼	5¼	34½	12¼	1½	1½	6¼	1½	8	3¼	2¼	10	1
BENT NO. 5	2	1	39	39	31	38	24	2¼	5¼	34½	17¼	1⅙	1⅙	6¼	1½	8	1¾	2¼	10	1
	2	2	39	39	31	38	24	2¼	5¼	34½	17¼	1⅙	1⅙	6¼	1½	8	1¾	2¼	10	1
	2	3	39	39	31	38	24	2¼	5¼	34½	17¼	1⅙	1⅙	6¼	1½	8	1¾	2¼	10	1
	2	4	39	39	31	38	24	2¼	5¼	34½	17¼	1⅙	1⅙	6¼	1½	8	1¾	2¼	10	1
BENT NO. 7	3	1	34	46	26	45	24	2¼	2¾	29½	20¾	1	2¾	8¾	1⅞	10⅞	1¾	2¼	14	1
	3	2	34	46	26	45	24	2¼	2¾	29½	20¾	1	2¾	8¾	1⅞	10⅞	1¾	2¼	14	1
	3	3	34	46	26	45	24	2¼	2¾	29½	20¾	1	2¾	8¾	1⅞	10⅞	1¾	2¼	14	1
	3	4	34	46	26	45	24	2¼	2¾	29½	20¾	1	2¾	8¾	1⅞	10⅞	1¾	2¼	14	1

GENERAL NOTES:

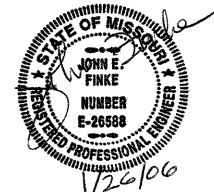
Anchor bolts shall be 1 1/2" ASTM A709 Grade 50W steel swaged bolts and shall extend 15" into the concrete with ASTM A194 - 2, 2H or ASTM A563 - C, C3, D, DH, DH3 heavy hexagon nuts. Actual manufacturer's certified mill test reports (chemical and mechanical) shall be provided. Swedging shall be 1" less than extension into the concrete.

All structural steel for the anchor bolts and heavy hexagon nuts shall be coated with a minimum of two coats of inorganic zinc primer (5 mils minimum).

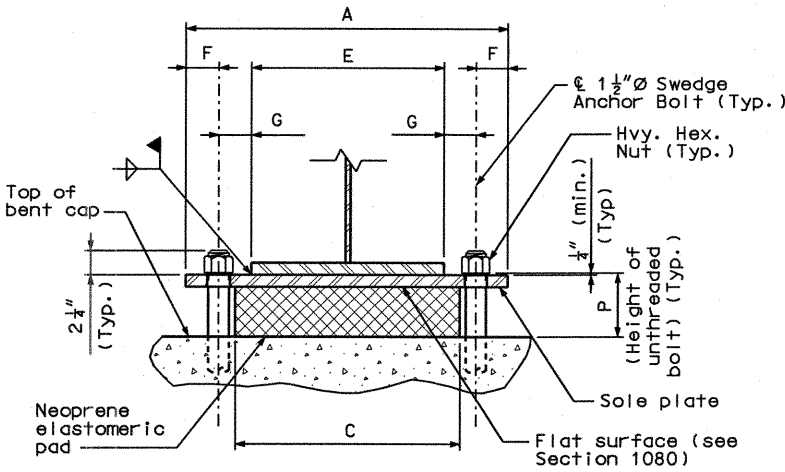
Neoprene Elastomeric Pads shall be 60 Durometer. The neoprene pad shall be bonded to the bearing seat with an epoxy adhesive as approved by the bearing manufacturer for bonding neoprene to concrete.

Structural steel for sole plate shall be ASTM A709 Grade 50 and shall be coated with a minimum of two coats of inorganic zinc primer (5 mils minimum).

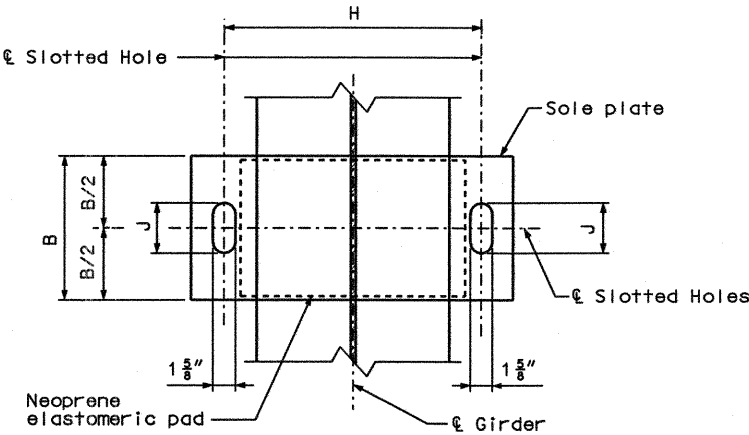
Laminated Neoprene Bearing Pad Assembly shall be in accordance with Sec 716.



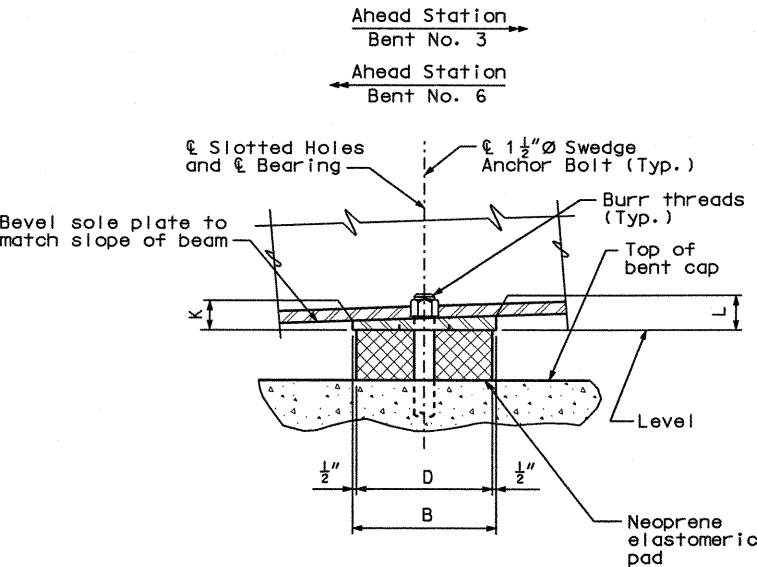
FIXED BEARING DETAILS AT INTERMEDIATE BENT NOS. 2, 4, 5 AND 7



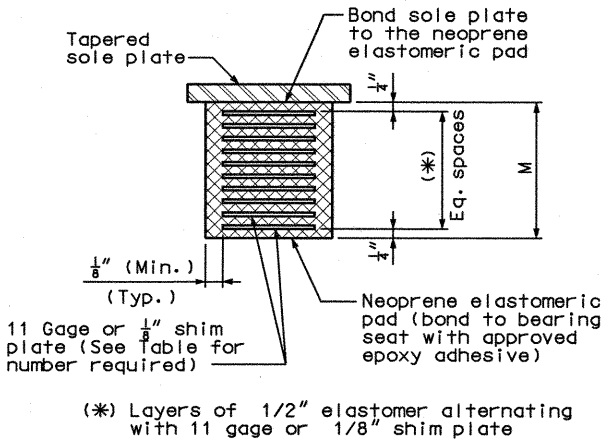
END VIEW



PART PLAN



SIDE VIEW

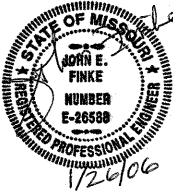


NEOPRENE ELASTOMERIC PAD

The required shim plate shall be placed between layers of elastomer and molded together to form an integral unit.

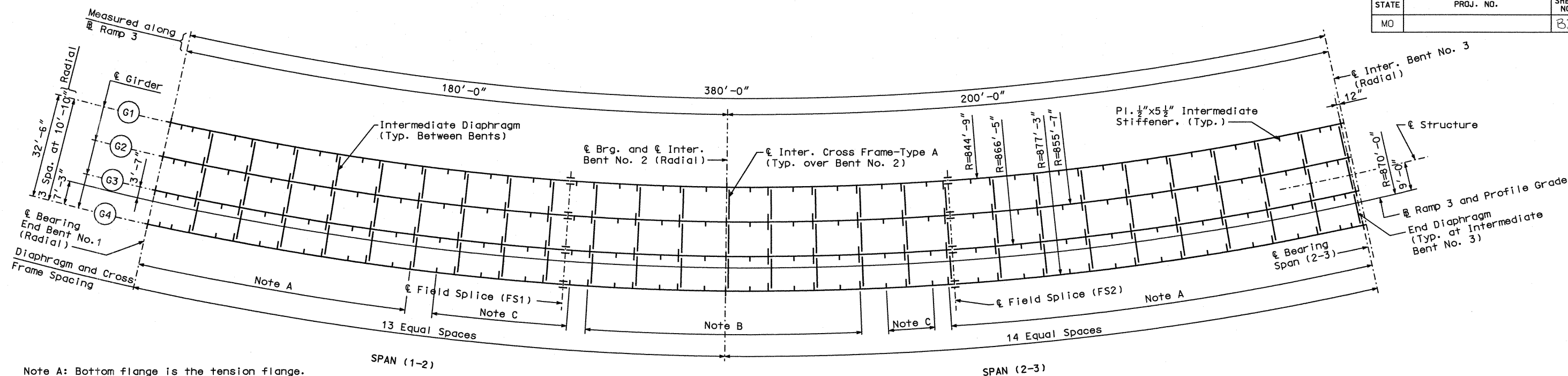
EXPANSION BEARINGS																	
UNIT NO.	GDR. NO.	VARIABLE DIMENSION (IN.)														NO. OF SHIM PLATES	NO. REQD.
		A	B	C	D	E	F	G	H	J	K	L	M	P			
BENT NO. 3	1	1	39	15	30	14	22	2 1/2	5 1/2	33 1/2	5 1/2	1 1/8	1 1/8	4 1/8	6 1/8	7	1
	1	2	39	15	30	14	22	2 1/2	5 1/2	33 1/2	5 1/2	1 1/8	1 1/8	4 1/8	6 1/8	7	1
	1	3	39	15	30	14	22	2 1/2	5 1/2	33 1/2	5 1/2	1 1/8	1 1/8	4 1/8	6 1/8	7	1
	1	4	39	15	30	14	24	2 1/2	4 3/4	33 1/2	5 1/2	1 1/8	1 1/8	4 1/8	6 1/8	7	1
	2	1	39	9	31	8	24	2 1/2	5 1/2	34 1/2	7 1/2	1 1/8	2 1/8	6 1/2	8 1/2	10	1
	2	2	39	11	31	10	24	2 1/2	5 1/2	34 1/2	7 1/2	1 1/8	2 1/8	6 1/2	8 1/2	10	1
	2	3	39	15	31	14	24	2 1/2	5 1/2	34 1/2	7 1/2	1 1/8	2 1/8	6 1/2	8 1/2	10	1
	2	4	39	21	31	20	24	2 1/2	5 1/2	34 1/2	7 1/2	1 1/8	2 1/8	6 1/2	8 1/2	10	1
BENT NO. 6	2	1	39	13	31	12	24	2 1/2	5 1/2	34 1/2	7 1/2	1 1/8	1 1/8	6 1/2	8	10	1
	2	2	39	17	31	16	24	2 1/2	5 1/2	34 1/2	7 1/2	1 1/8	1 1/8	6 1/2	8	10	1
	2	3	39	13	31	12	24	2 1/2	5 1/2	34 1/2	7 1/2	1 1/8	1 1/8	6 1/2	8	10	1
	2	4	39	21	31	20	24	2 1/2	5 1/2	34 1/2	7 1/2	1 1/8	1 1/8	6 1/2	8	10	1
	3	1	39	15	30	14	22	2 1/2	6 1/2	34 1/2	5 1/2	1 1/8	1 1/8	4 1/8	6 1/8	7	1
	3	2	39	15	30	14	22	2 1/2	6 1/2	34 1/2	5 1/2	1 1/8	1 1/8	4 1/8	6 1/8	7	1
	3	3	39	15	30	14	22	2 1/2	6 1/2	34 1/2	5 1/2	1 1/8	1 1/8	4 1/8	6 1/8	7	1
	3	4	39	15	30	14	24	2 1/2	4 3/4	33 1/2	5 1/2	1 1/8	1 1/8	4 1/8	6 1/8	7	1

Notes:
 For Bearing Notes, see Sheet No. 35.
 For Anchor Bolt Detail, see Sheet No. 35.

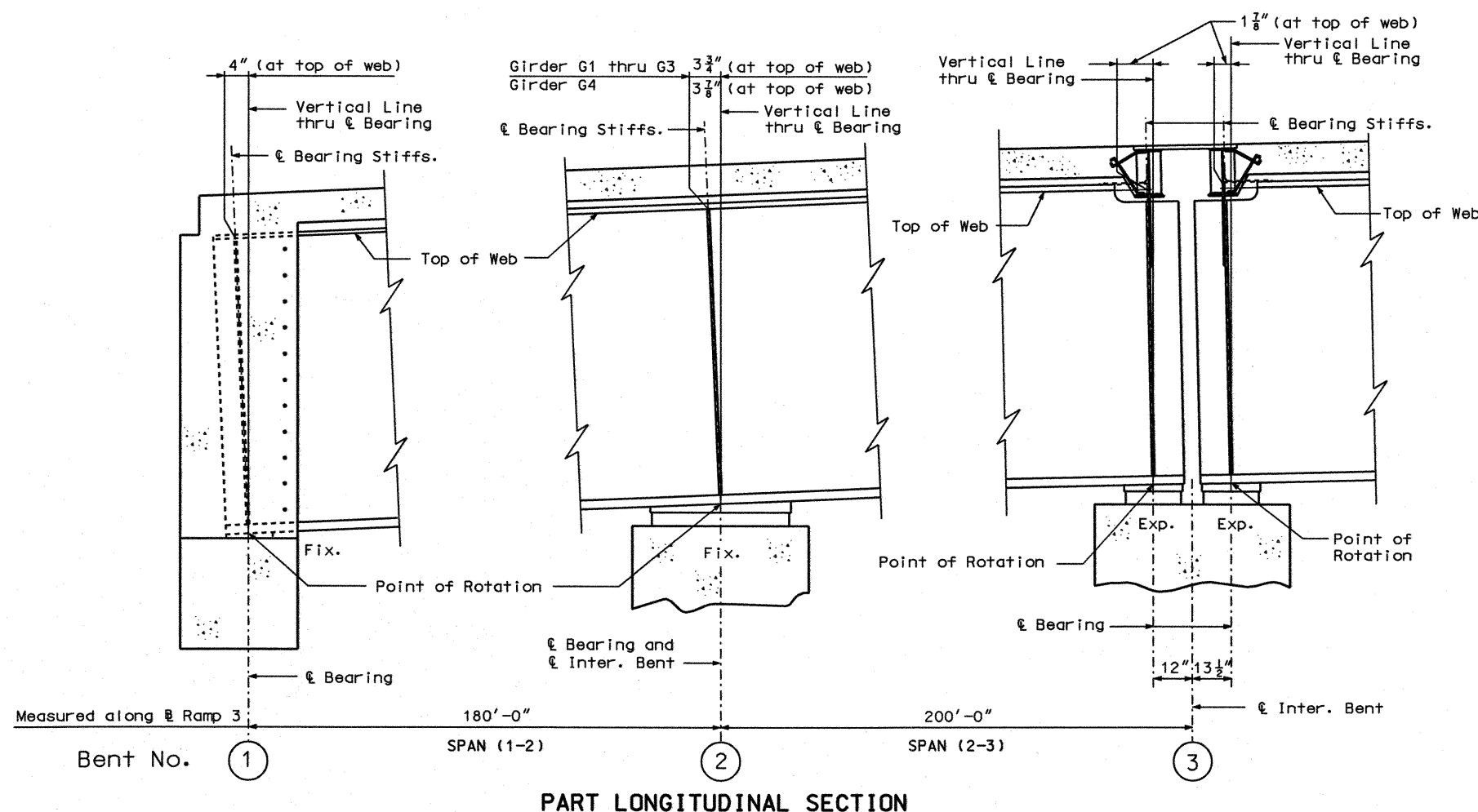


EXPANSION BEARING DETAILS AT INTERMEDIATE BENT NOS. 3 AND 6

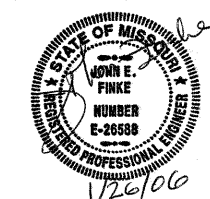
STATE	PROJ. NO.	SHEET NO.
MO		837



PLAN OF STRUCTURAL STEEL - UNIT 1



- Notes:
- All diaphragms and cross frames are radial.
 - Transverse intermediate stiffeners are located on each girder in each bay midway between the diaphragms and cross frames. One additional intermediate stiffener is located in the quarter point of the bays adjacent to End Bent No. 1 and Intermediate Bent No. 3.
 - Longitudinal dimensions are horizontal from ℓ bearing to ℓ bearing.
 - For details of Bolted Field Splices, see Sheet Nos. 45 and 46.
 - For details of End Diaphragms, Intermediate Diaphragms, and Cross Frames, see Sheet No. 47.
 - All Fabricated Structural Steel shall be ASTM A709, Grade 50.
 - For Erection Notes, see General Notes Sheet No. 5.



FRAMING PLAN AND LONGITUDINAL SECTION - UNIT 1

DETAILED: EAK JUNE 2005
 CHECKED: GJD NOV. 2005

JACOBS CIVIL INC.
 ST. LOUIS, MO.

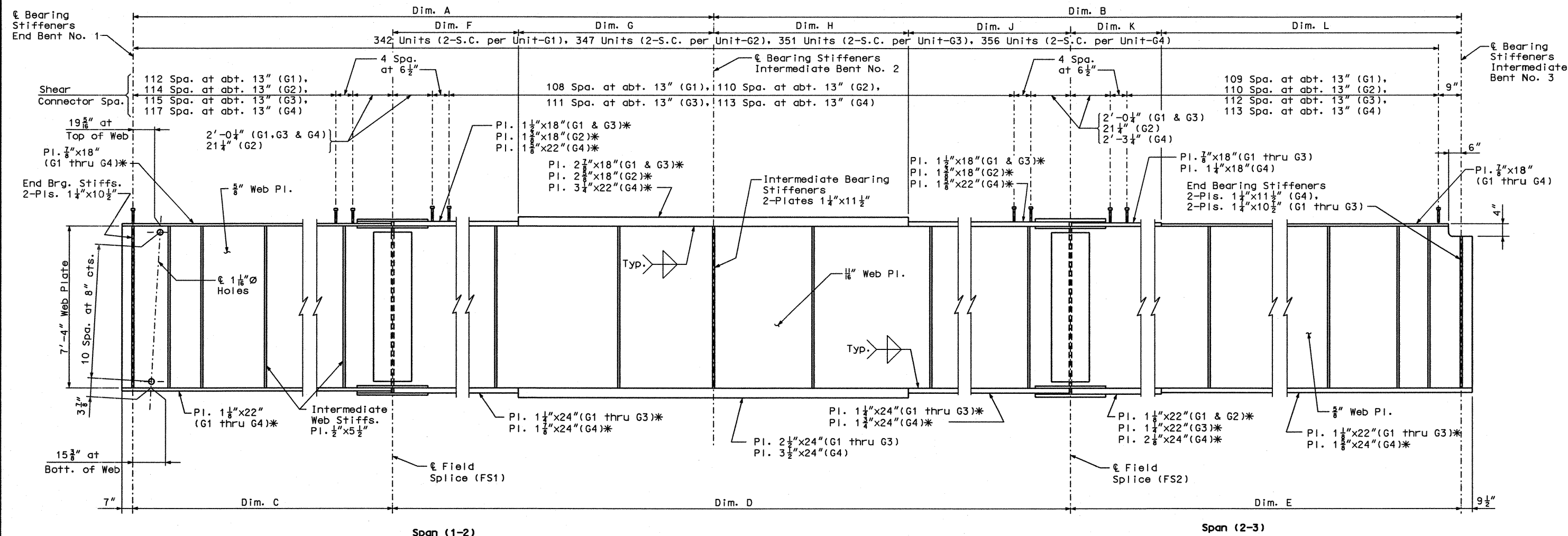
SHEET NO. 37 OF 77

GREENE COUNTY

A7024

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ELEVATION OF GIRDER

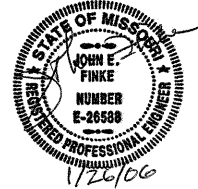
Note:
Shear connector spacings may be shifted slightly to clear shop flange splices.
For limits of top and bottom flanges in tension, see Plan of Structural Steel.

Notes:
Longitudinal dimensions are horizontal from center bearing to center bearing.
Plate girders shall be fabricated to be in accordance with the camber diagram shown on Sheet No. 55.
For location of slab drain attachment holes see slab drain details, Sheet No. 63.
All Fabricated Structural Steel shall be ASTM A709, Grade 50.
* Indicates flange plates subject to notch toughness requirements.
Weight of 2,600 lbs. of shear connectors is included in the weight of Fabricated Structural Low Alloy Steel (Plate Girder) A709, Grade 50.
Shear connectors shall be in accordance with Sec 712, 1037 and 1080.
All web plates subject to notch toughness requirements.
The flange and web splice plates shall be subject to notch toughness requirements when notch toughness is required for flanges on both sides of splice.

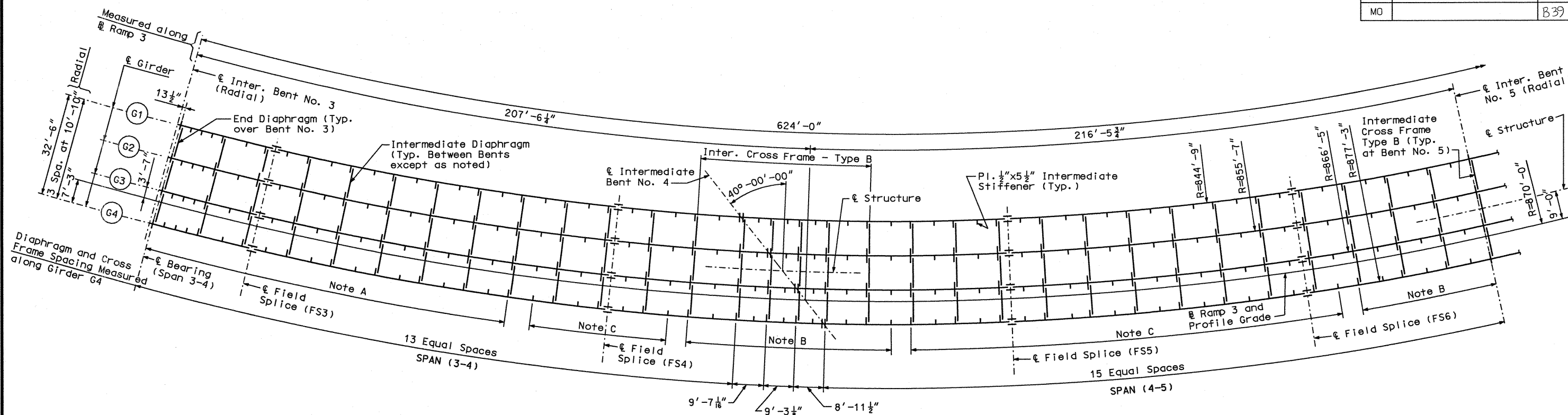
GIRDER VARIABLES

Girder No.	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F	Dim. G	Dim. H	Dim. J	Dim. K	Dim. L
G1	174'-9 5/16"	193'-2 11/16"	124'-3 7/16"	122'-4 1/16"	121'-4 1/2"	27'-2 1/4"	23'-3 5/8"	23'-3 5/8"	48'-6 9/16"	76'-8 1/2"	44'-8"
G2	177'-0 3/16"	195'-8 7/16"	125'-10 1/2"	123'-11"	122'-11 5/8"	27'-6 7/16"	23'-7 1/4"	23'-7 1/4"	49'-2 1/16"	77'-8 5/16"	45'-2 3/16"
G3	179'-3 1/8"	198'-2 3/16"	127'-5 11/16"	125'-5 3/4"	124'-5 7/8"	27'-10 5/8"	23'-10 3/16"	23'-10 3/16"	49'-9 1/2"	78'-8 1/16"	45'-9 3/16"
G4	181'-6"	200'-7 7/8"	129'-0 13/16"	127'-0 9/16"	126'-0 1/2"	28'-2 13/16"	24'-2 3/8"	24'-2 3/8"	50'-5"	79'-7 7/8"	46'-4 5/8"

ELEVATION OF GIRDER - UNIT 1

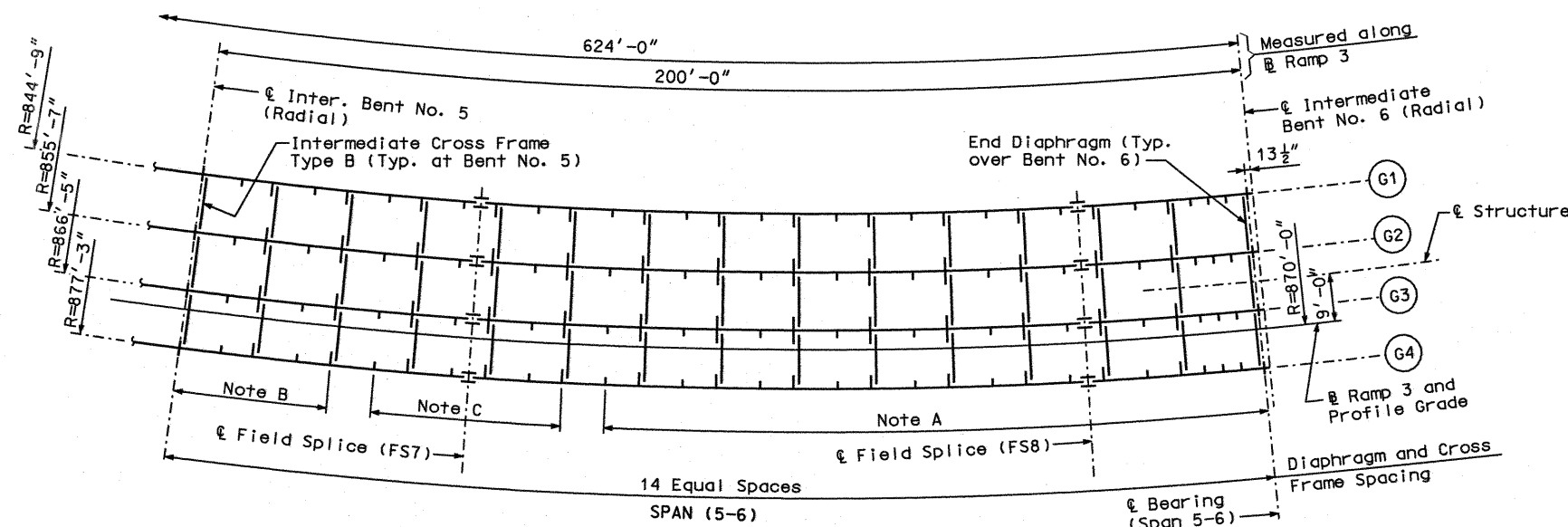


STATE	PROJ. NO.	SHEET NO.
MO		839



Note A: Bottom flange is the tension flange.
 Note B: Top flange is the tension flange.
 Note C: Both top and bottom flanges are tension flanges.

PLAN OF STRUCTURAL STEEL - UNIT 2



PLAN OF STRUCTURAL STEEL - UNIT 2

Notes:

All diaphragms and cross frames are radial.

Transverse intermediate stiffeners are located on each girder in each bay midway between the diaphragms and cross frames. One additional intermediate stiffener is located in the quarter points of the bays adjacent to Intermediate Bent No. 3 and Intermediate Bent No. 6.

Longitudinal dimensions are horizontal from & bearing to & bearing.

For details of Bolted Field Splices, see Sheet Nos. 45 and 46.

For details of End Diaphragms, Intermediate Diaphragms, and Cross Frames, see Sheet Nos. 47 and 48.

All Fabricated Structural Steel shall be ASTM A709, Grade 50.

For Erection Notes, See General Notes Sheet No. 5.

FRAMING PLAN - UNIT 2

DETAILED: EAK JUNE 2005
 CHECKED: GJD NOV. 2005

JACOBS CIVIL INC.
 ST. LOUIS, MO.

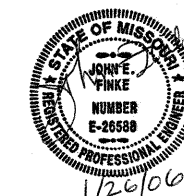
SHEET NO. 39 OF 77

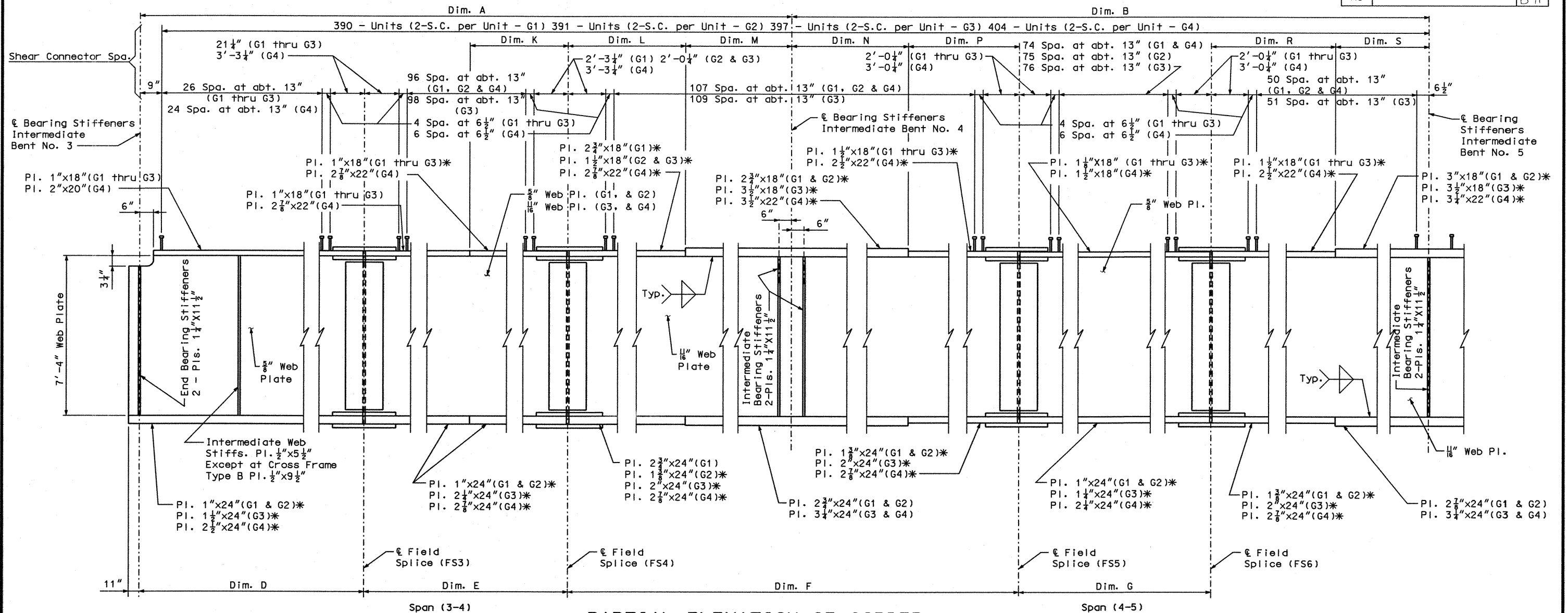
GREENE COUNTY

A7024

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PARTIAL ELEVATION OF GIRDER

Note:
Shear Connector spacings may be shifted slightly to clear shop flange splices. For limits of top and bottom flanges in tension, see Plan of Structural Steel.

Notes:
Longitudinal dimensions are horizontal from ℓ bearing to ℓ bearing.
Plate girders shall be fabricated to be in accordance with the camber diagram shown on Sheet No. 56.
For location of slab drain attachment holes see slab drain details, Sheet No. 63.

All Fabricated Structural Steel shall be ASTM A709, Grade 50.

* Indicates flange plates subject to notch toughness requirements.

Weight of 18,290 lbs. of shear connectors is included in the weight of Fabricated Structural Low Alloy Steel (Plate Girder) A709, Grade 50.

Shear connectors shall be in accordance with Sec 712, 1037 and 1080.

All web plates subject to notch toughness requirements.

The flange and web splice plates shall be subject to notch toughness requirements when notch toughness is required for flanges on both sides of splice.

GIRDER VARIABLES

Girder No.	Dim. A	Dim. B	Dim. D	Dim. E	Dim. F	Dim. G	Dim. K	Dim. L	Dim. M	Dim. N	Dim. P	Dim. R	Dim. S
G1	179'-4 1/16"	231'-2 11/16"	31'-1 11/16"	110'-5"	122'-7 3/8"	88'-3 7/16"	43'-0 1/8"	12'-9 3/8"	25'-0"	29'-0"	55'-10"	34'-0 3/8"	24'-0 7/8"
G2	191'-0 1/16"	224'-10 1/8"	31'-6 11/16"	111'-10"	124'-2 1/4"	89'-5"	43'-6 3/4"	22'-7 3/8"	25'-0"	29'-0"	47'-6 7/8"	34'-5 3/8"	24'-4 5/8"
G3	202'-7 1/16"	218'-6 9/16"	31'-11 11/16"	113'-3"	125'-9 1/8"	90'-6 5/8"	44'-1 3/8"	32'-4 3/8"	25'-0"	29'-0"	39'-4 3/4"	34'-10 7/8"	24'-8 5/8"
G4	214'-1 1/16"	212'-3 7/8"	32'-4 5/8"	114'-8"	127'-4"	91'-8 3/16"	44'-8"	42'-0 7/16"	25'-0"	29'-0"	31'-3 3/16"	35'-4 1/8"	25'-0"

PARTIAL ELEVATION OF GIRDER - UNIT 2

DETAILED: EAK SEPT. 2005
CHECKED: JOS JAN. 2006

JACOBS CIVIL INC.
ST. LOUIS, MO.

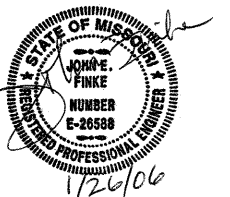
SHEET NO. 41 OF 77

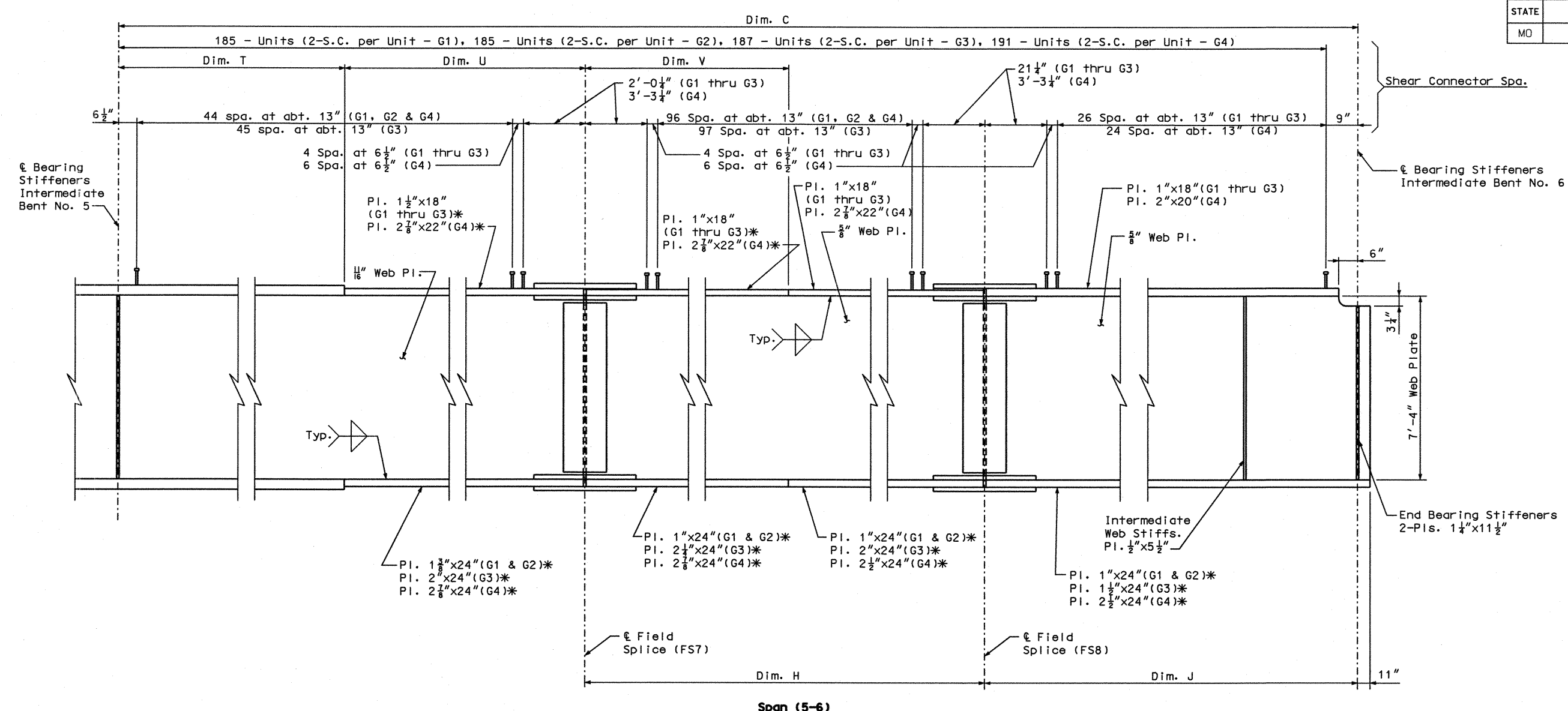
GREENE COUNTY

A7024

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PARTIAL ELEVATION OF GIRDER

Notes:
 Shear connector spacing may be shifted to clear shop flange splices.
 For limits of top and bottom flanges in tension, see Plan of Structural Steel.

Notes:

Longitudinal dimensions are horizontal from & bearing to & bearing.

Plate girders shall be fabricated to be in accordance with the camber diagram shown on Sheet No. 56.

For location of slab drain attachment holes see slab drain details, Sheet No. 63.

All Fabricated Structural Steel shall be ASTM A709, Grade 50.

* Indicates flange plates subject to notch toughness requirements.

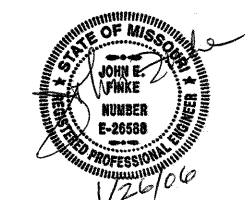
Shear connectors shall be in accordance with Sec 712, 1037 and 1080.

All web plates subject to notch toughness requirements.

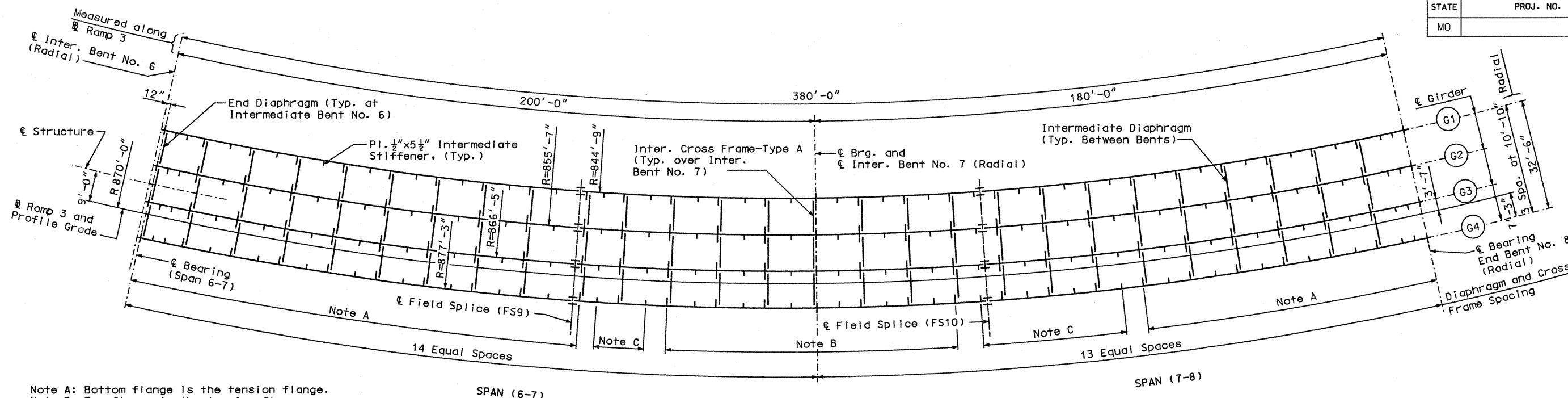
The flange and web splice plates shall be subject to notch toughness requirements when notch toughness is required for flanges on both sides of splice.

GIRDER VARIABLES						
Girder No.	Dim. C	Dim. H	Dim. J	Dim. T	Dim. U	Dim. V
G1	193'-0 7/8"	110'-3 1/8"	31'-1 11/16"	24'-0 7/8"	27'-7 3/16"	48'-1 3/4"
G2	195'-6 3/4"	111'-8 1/16"	31'-6 11/16"	24'-4 5/8"	27'-11 3/8"	48'-9 3/16"
G3	198'-0 5/8"	113'-1 1/16"	31'-11 5/8"	24'-8 5/16"	28'-3 3/8"	49'-4 5/16"
G4	200'-6 1/2"	114'-6"	32'-4 5/8"	25'-0"	28'-7 7/8"	50'-0"

PARTIAL ELEVATION OF GIRDER - UNIT 2

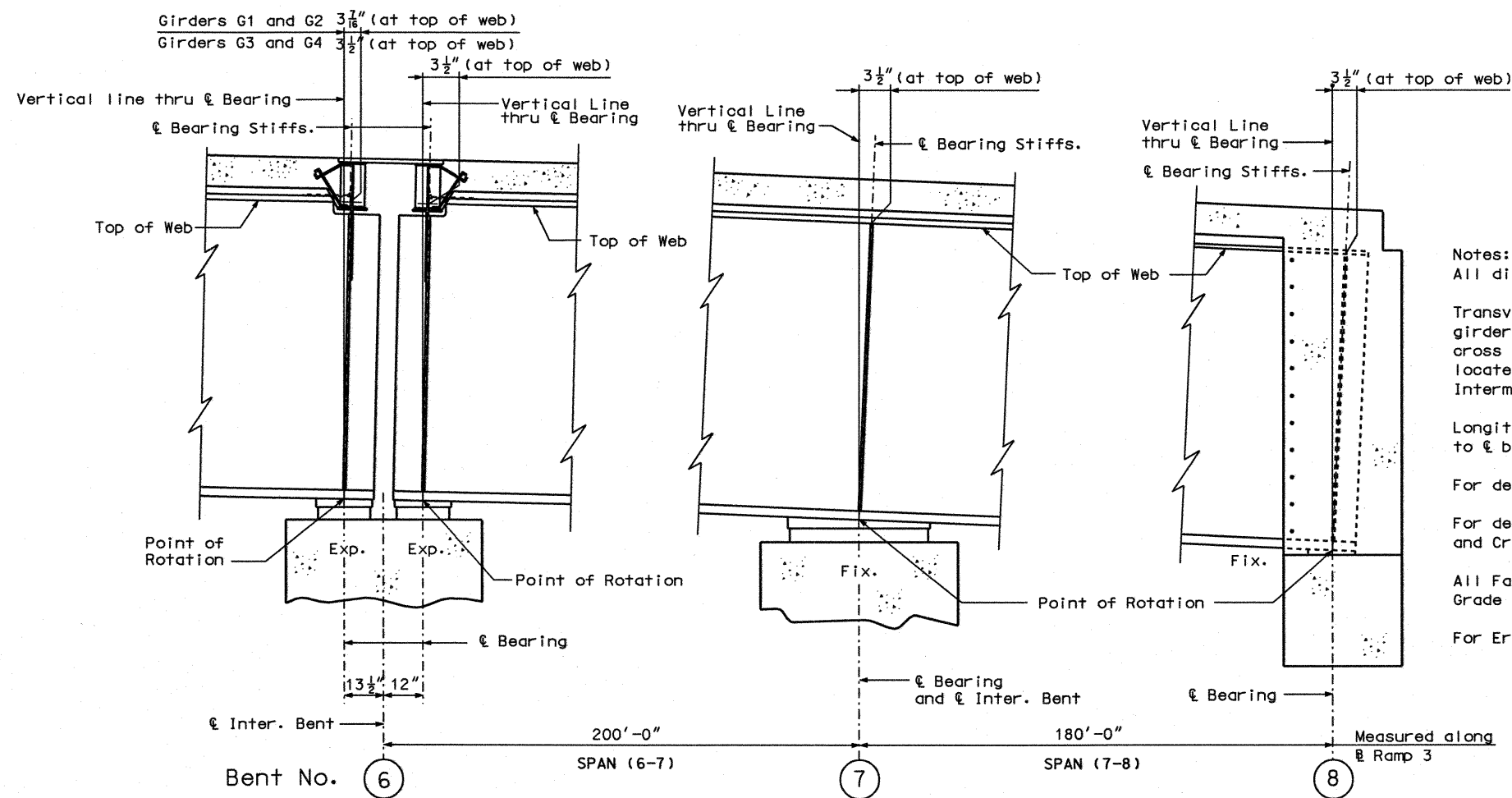


STATE	PROJ. NO.	SHEET NO.
MO		843

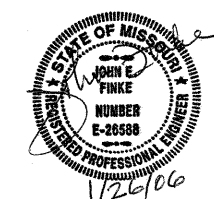


Note A: Bottom flange is the tension flange.
 Note B: Top flange is the tension flange.
 Note C: Both top and bottom flanges are tension flanges.

PLAN OF STRUCTURAL STEEL - UNIT 3



Notes:
 All diaphragms and cross frames are radial.
 Transverse intermediate stiffeners are located on each girder in each bay midway between the diaphragms and cross frames. One additional intermediate stiffener is located in the quarter point of the bays adjacent to Intermediate Bent No. 6 and End Bent No. 8.
 Longitudinal dimensions are horizontal from & bearing to & bearing.
 For details of Bolted Field Splices, see Sheet Nos. 45 and 46.
 For details of End Diaphragms, Intermediate Diaphragms, and Cross Frames, see Sheet No. 47.
 All Fabricated Structural Steel shall be ASTM A709, Grade 50.
 For Erection Notes, see General Notes Sheet No. 5.



PART LONGITUDINAL SECTION

FRAMING PLAN AND LONGITUDINAL SECTION - UNIT 3

DETAILED: EAK JUNE 2005
 CHECKED: GJD NOV. 2005

JACOBS CIVIL INC.
 ST. LOUIS, MO.

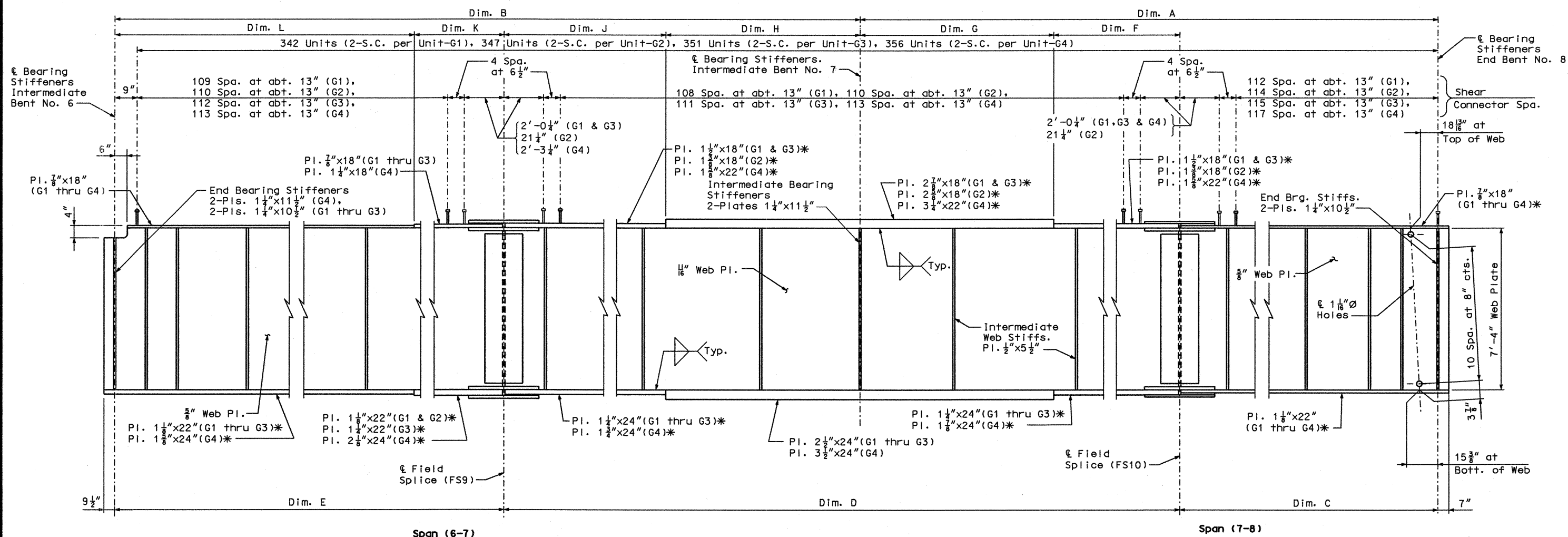
SHEET NO. 43 OF 77

GREENE COUNTY

A7024

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ELEVATION OF GIRDER

Note:
Shear connector spacings may be shifted slightly to clear shop flange splices.
For limits of top and bottom flanges in tension, see Plan of Structural Steel.

Notes:

Longitudinal dimensions are horizontal from bearing to bearing.

Plate girders shall be fabricated to be in accordance with the camber diagram shown on Sheet No. 58.

For location of slab drain attachment holes see slab drain details, Sheet No. 63.

All Fabricated Structural Steel shall be ASTM A709, Grade 50.

* Indicates flange plates subject to notch toughness requirements.

Weight of 2,600 lbs. of shear connectors is included in the weight of Fabricated Structural Low Alloy Steel (Plate Girder) A709, Grade 50.

Shear connectors shall be in accordance with Sec 712, 1037 and 1080.

All web plates subject to notch toughness requirements.

The flange and web splice plates shall be subject to notch toughness requirements when notch toughness is required for flanges on both sides of splice.

GIRDER VARIABLES

Girder No.	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F	Dim. G	Dim. H	Dim. J	Dim. K	Dim. L
G1	174'-9 5/16"	193'-2 11/16"	124'-3 7/16"	122'-4 1/16"	121'-4 1/2"	27'-2 1/4"	23'-3 5/8"	23'-3 5/8"	48'-6 3/16"	76'-8 1/2"	44'-8"
G2	177'-0 3/16"	195'-8 7/16"	125'-10 1/2"	123'-11"	122'-11 5/8"	27'-6 7/16"	23'-7 1/4"	23'-7 1/4"	49'-2 1/16"	77'-8 5/16"	45'-2 13/16"
G3	179'-3 1/8"	198'-2 3/16"	127'-5 1/16"	125'-5 3/4"	124'-5 7/8"	27'-10 5/8"	23'-10 13/16"	23'-10 13/16"	49'-9 1/2"	78'-8 1/16"	45'-9 13/16"
G4	181'-6"	200'-7 7/8"	129'-0 13/16"	127'-0 9/16"	126'-0 1/2"	28'-2 1/16"	24'-2 3/8"	24'-2 3/8"	50'-5"	79'-7 7/8"	46'-4 5/8"

ELEVATION OF GIRDER - UNIT 3

DETAILED: EAK SEP. 2005
CHECKED: GJD NOV. 2005

JACOBS CIVIL INC.
ST. LOUIS, MO.

SHEET NO. 44 OF 77

GREENE COUNTY

A7024

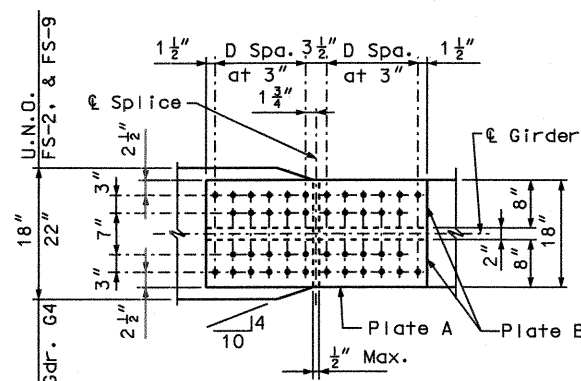
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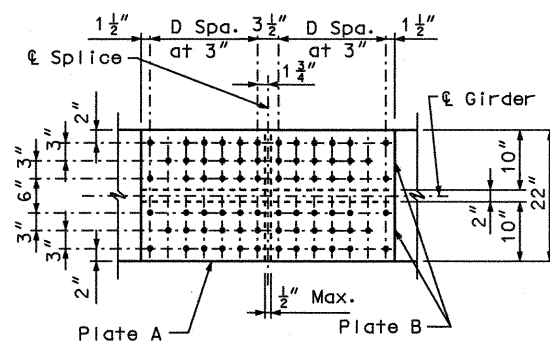
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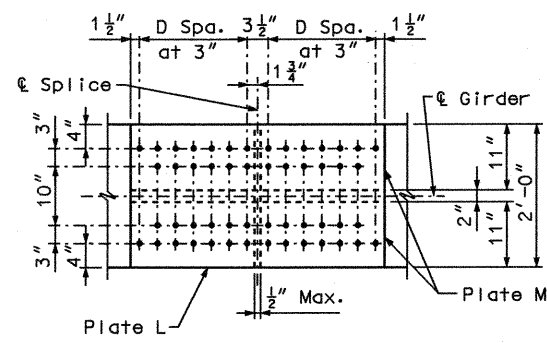
TOP FLANGE SPLICE - TYPE 1

Note: Fill plate C not shown.



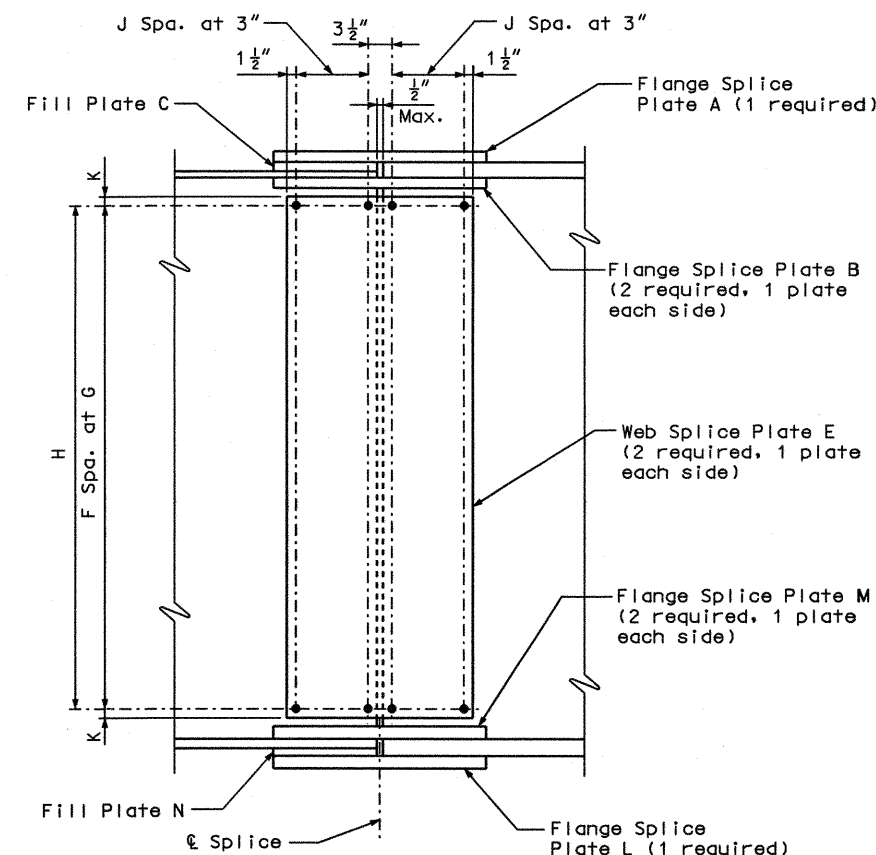
TOP FLANGE SPLICE - TYPE 4

Note: Fill plate C not shown.

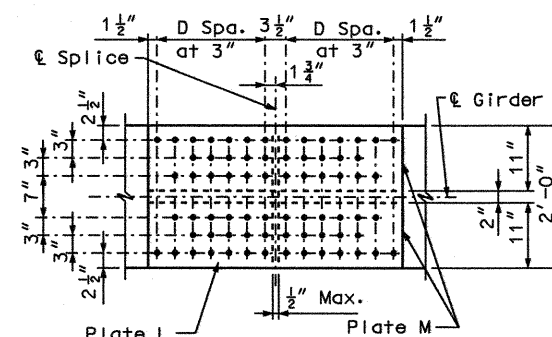


BOTTOM FLANGE SPLICE - TYPE 7

Note: Fill plate N not shown.



DETAIL OF BOLTED FIELD SPLICE



BOTTOM FLANGE SPLICE - TYPE 10

Note: Fill plate N not shown.

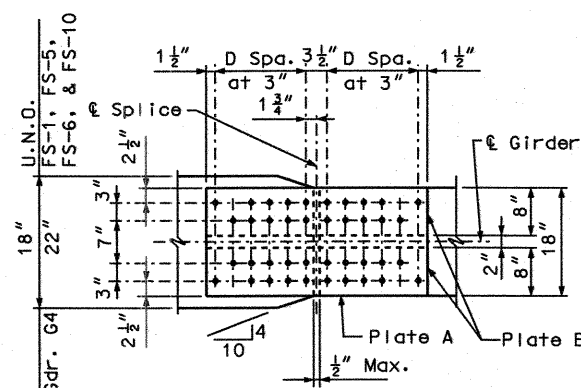
Notes:

All Fabricated Structural Steel shall be ASTM A709, Grade 50.

All bolts are 7/8"Ø ASTM A325 high strength bolts in 15/16"Ø holes.

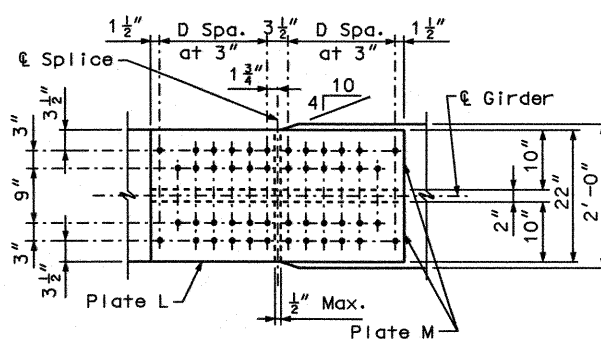
Contact surfaces shall be in accordance with Sec 1081 for surface preparation.

All splice plates shall be subject to notch toughness requirements.



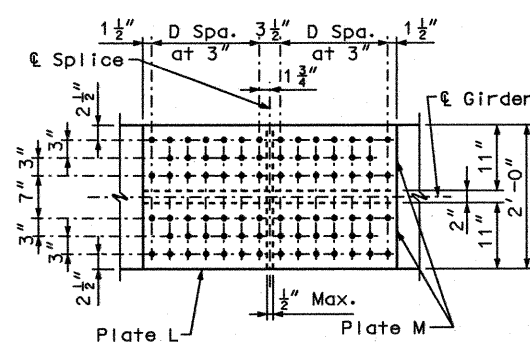
TOP FLANGE SPLICE - TYPE 3

Note: Fill plate C not shown.



BOTTOM FLANGE SPLICE - TYPE 6

Note: Fill plate N not shown.



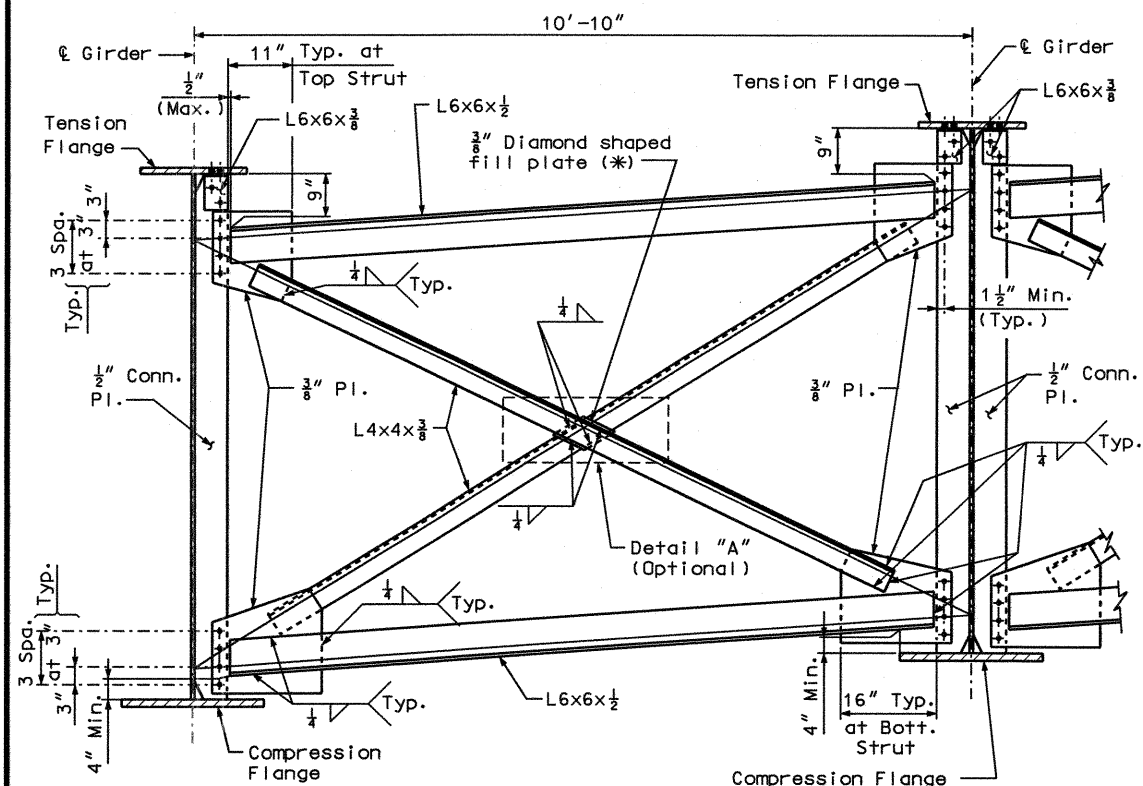
BOTTOM FLANGE SPLICE - TYPE 9

Note: Fill plate N not shown.

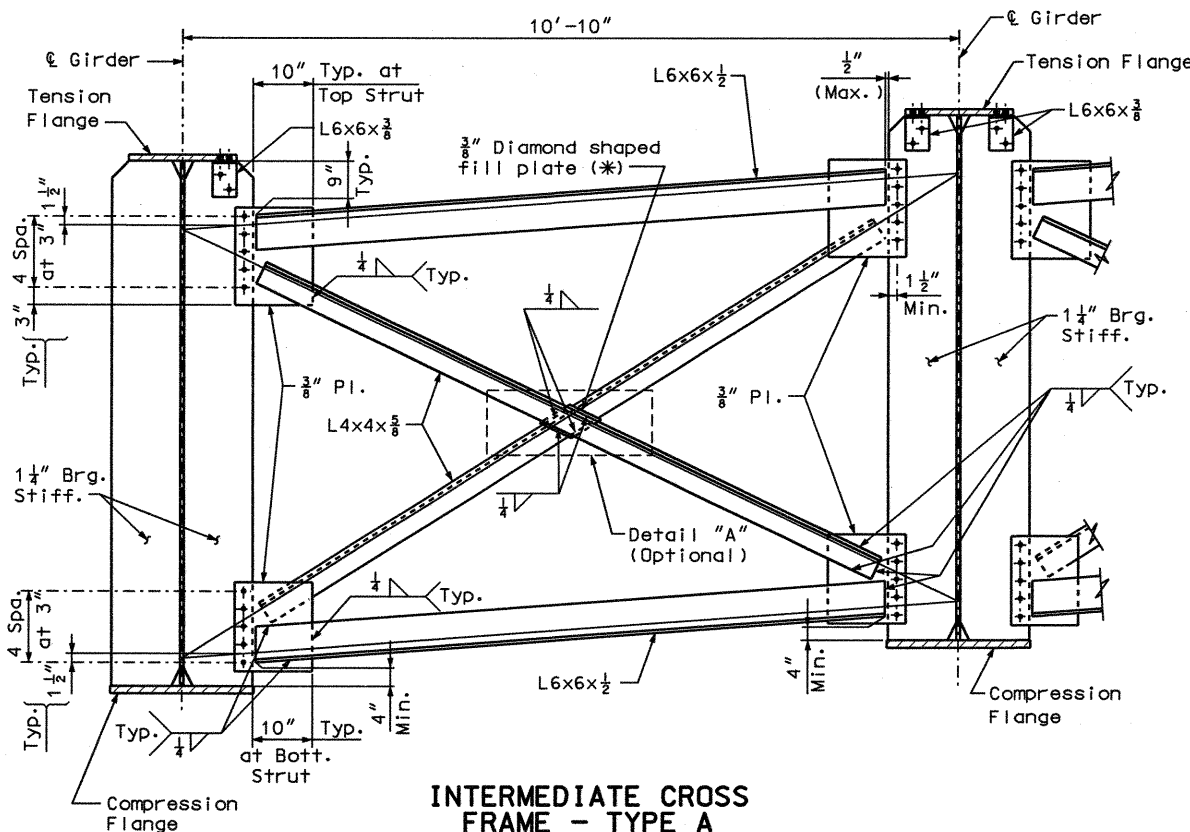
STEEL DETAILS



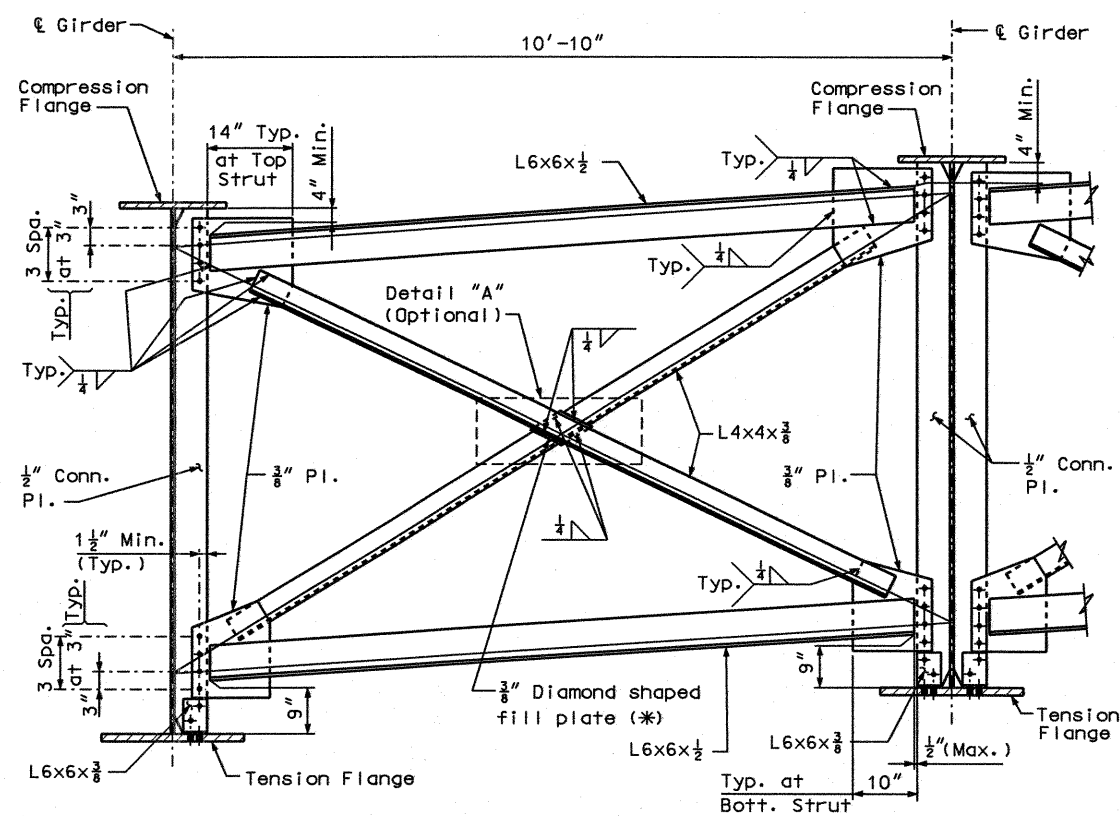
STATE	PROJ. NO.	SHEET NO.
MO		B47



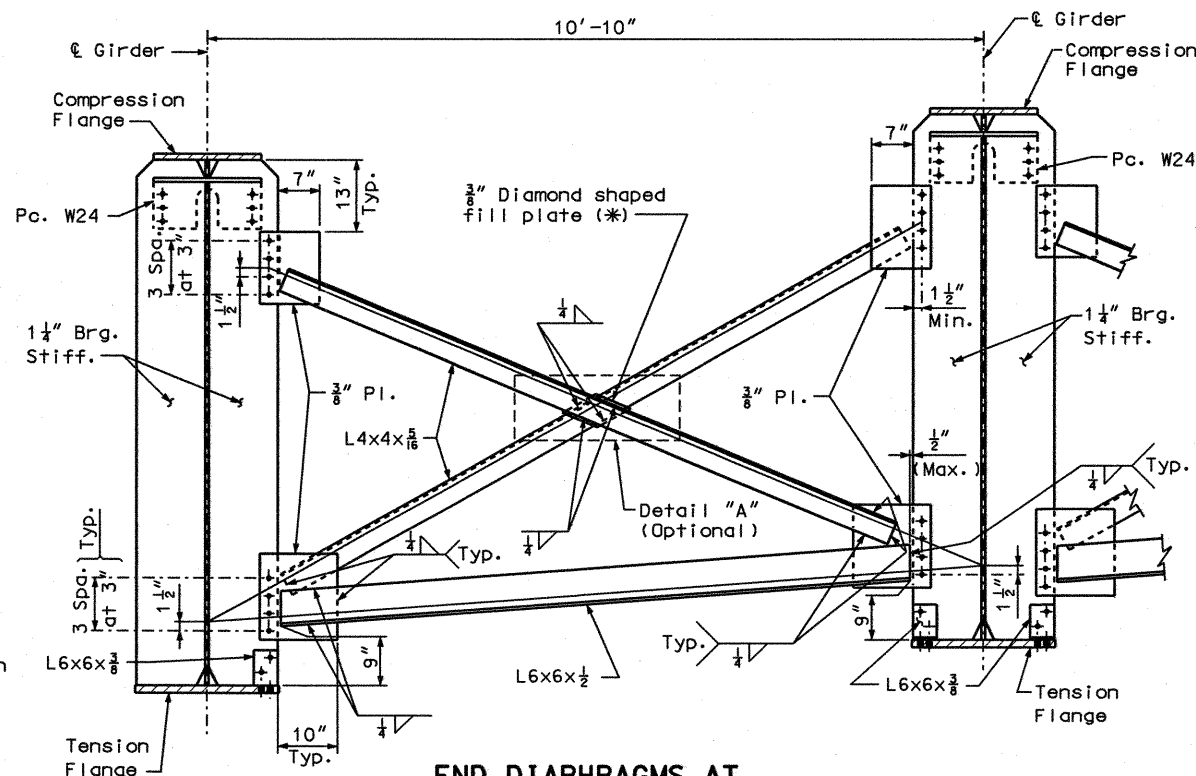
INTERMEDIATE DIAPHRAGMS
TOP FLANGE IN TENSION
UNITS 1 AND 3



INTERMEDIATE CROSS
FRAME - TYPE A
(At Bent Nos. 2 and 7)



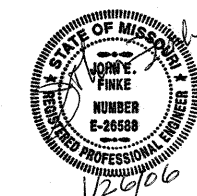
INTERMEDIATE DIAPHRAGMS
BOTTOM FLANGE IN TENSION
UNITS 1 AND 3



END DIAPHRAGMS AT
INTERMEDIATE BENT NOS. 3 AND 6
Note: Connection for Pc. W24 to girder shall be made with 3/4"
diameter high strength bolts.

Notes:
At the Contractor's option, holes in the diaphragm plate of non slab bearing diaphragms may be made 3/16" larger than the nominal diameter of the bolt. A hardened washer shall be used under the bolt head and nut when this option is used. Holes in the girder diaphragm connection plate or transverse web stiffener shall be standard size.

* At the Contractor's option, rectangular fill plates may be used in lieu of diamond fill plates as shown in Detail "A", Sheet No. 49.



STEEL DETAILS

SHEET NO. 47 OF 77

GREENE COUNTY

A7024

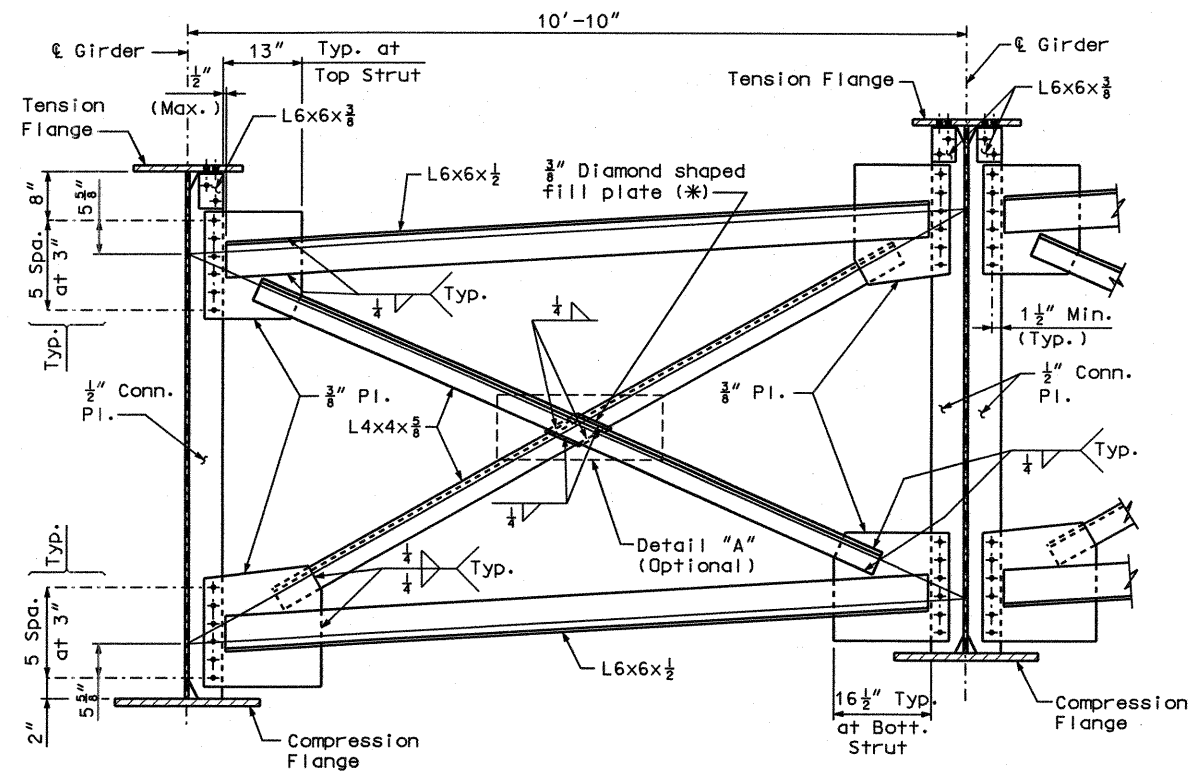
DETAILED: GJD/EAK NOV. 2005
CHECKED: RDR JAN. 2006

JACOBS CIVIL INC.
ST. LOUIS, MO.

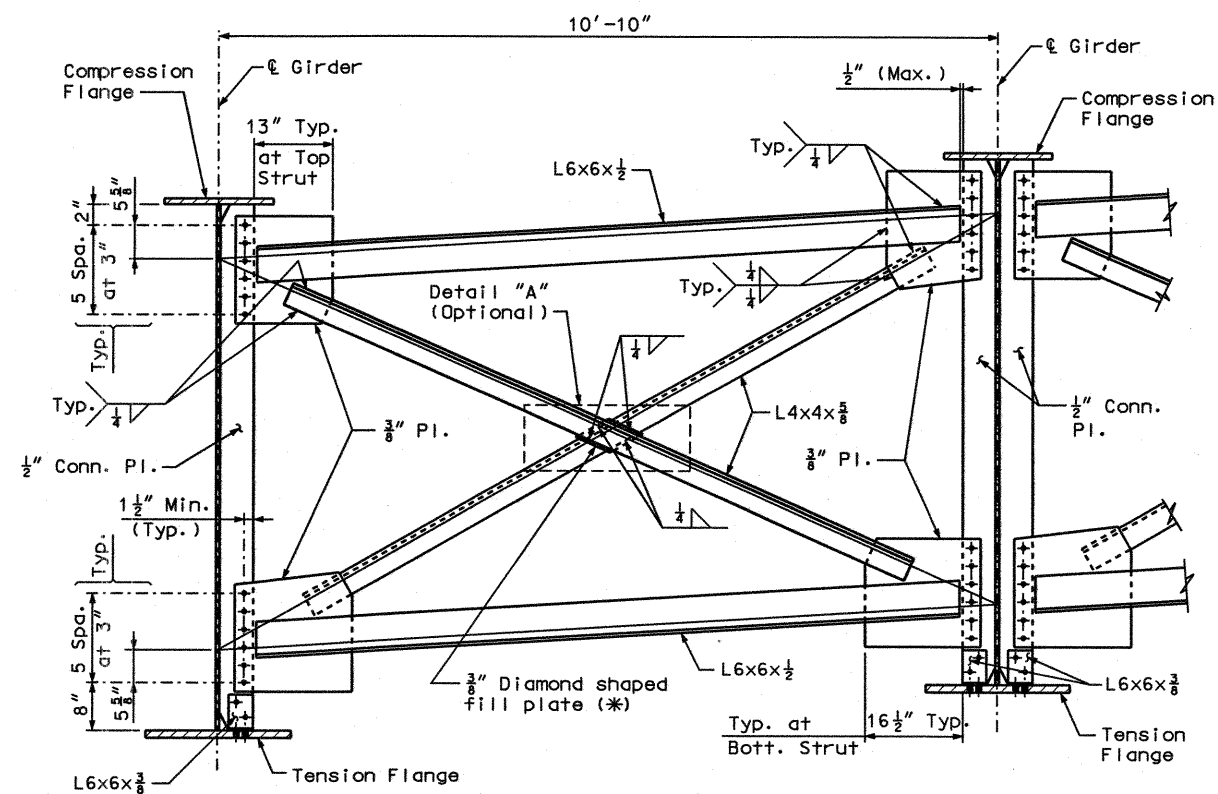
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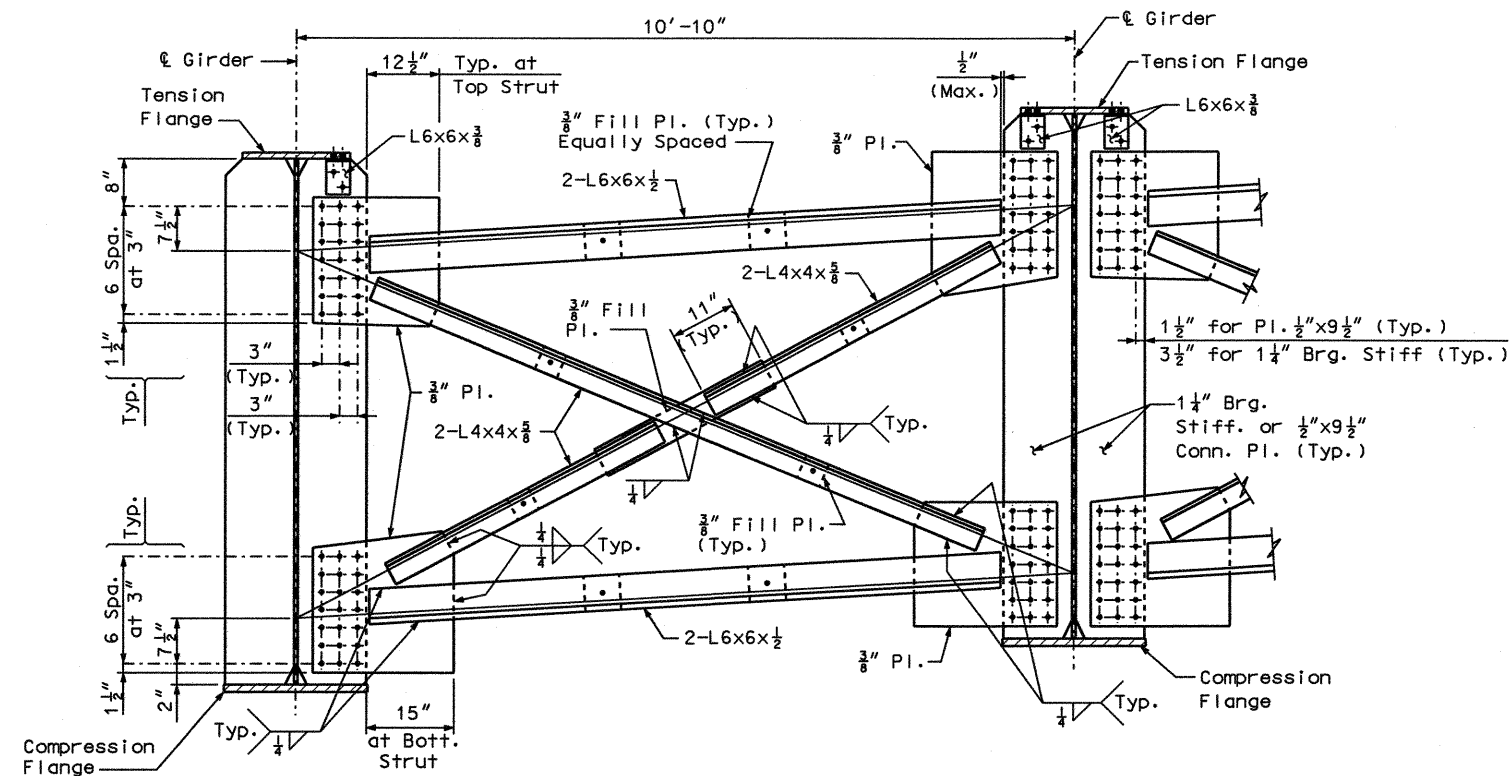
STATE	PROJ. NO.	SHEET NO.
MO		B4B



INTERMEDIATE DIAPHRAGMS
TOP FLANGE IN TENSION
UNIT 2



INTERMEDIATE DIAPHRAGMS
BOTTOM FLANGE IN TENSION
UNIT 2

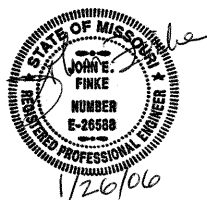


INTERMEDIATE CROSS
FRAME TYPE - B
(At Bents Nos. 4 and 5)

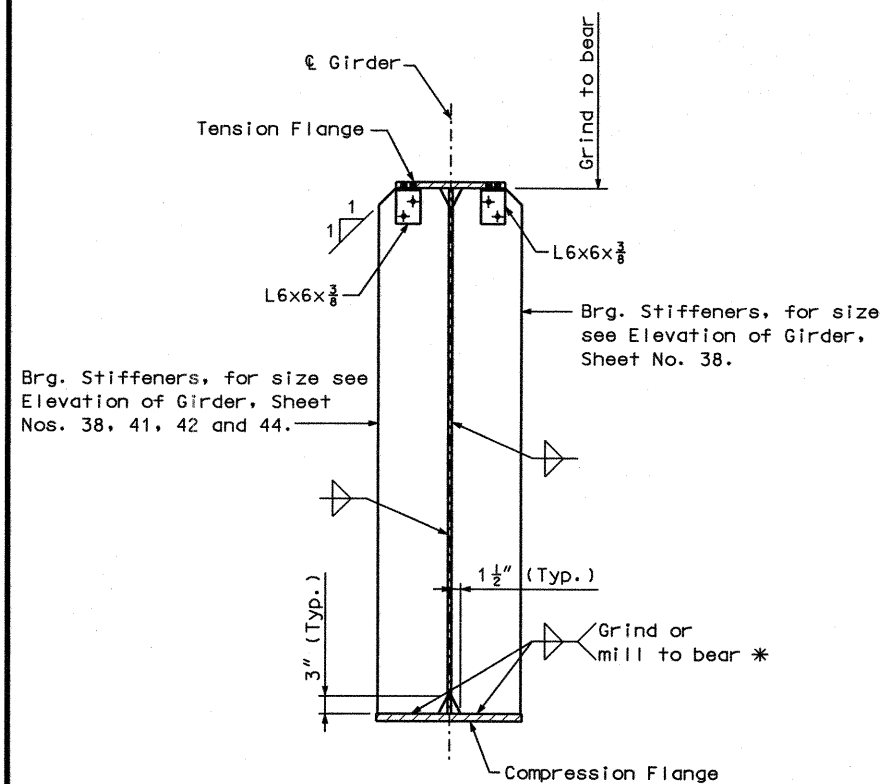
Notes:

At the Contractor's option, holes in the diaphragm plate of non slab bearing diaphragms may be made 3/16" larger than the nominal diameter of the bolt. A hardened washer shall be used under the bolt head and nut when this option is used. Holes in the girder diaphragm connection plate or transverse web stiffener shall be standard size.

* At the Contractor's option, rectangular fill plates may be used in lieu of diamond fill plates as shown in Detail "A", Sheet No. 49.

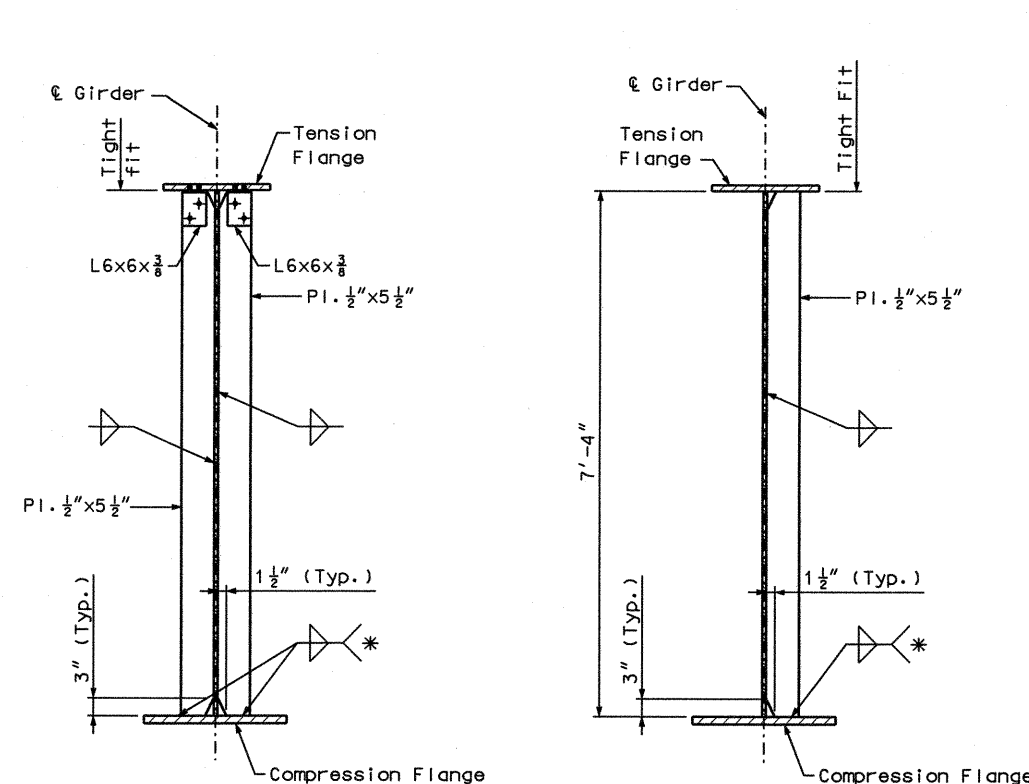


STATE	PROJ. NO.	SHEET NO.
MO		B49



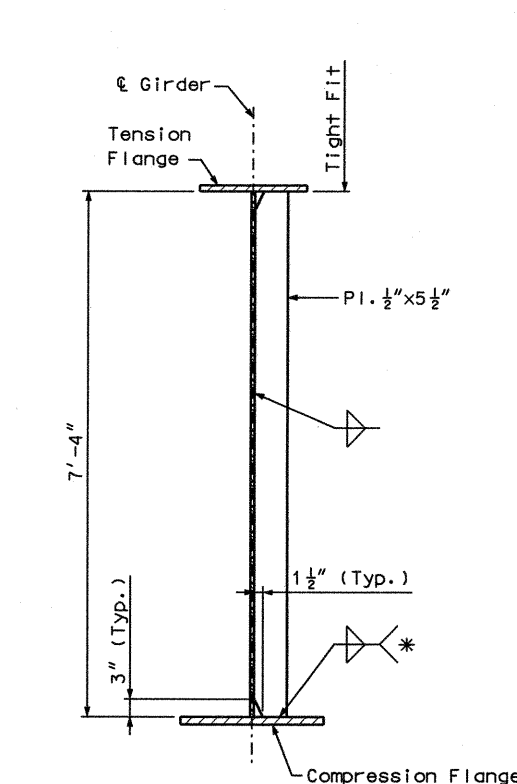
BEARING STIFFENERS

Note:
* Weld to compression flange as indicated on Plan of Structural Steel, Sheet Nos. 37, 39 and 43.



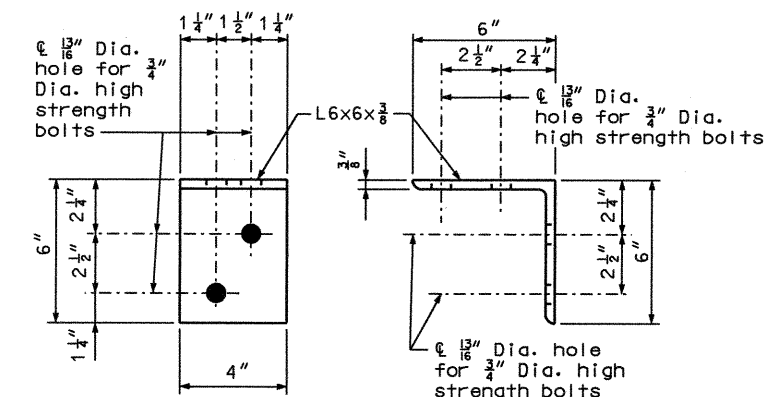
INTERMEDIATE DIAPHRAGM CONNECTION PLATE

Note:
If both flanges are in tension provide connection angles at both ends of the connection plate.
* Weld to compression flange as indicated on Plan of Structural Steel, sheet Nos. 37, 39 and 43.



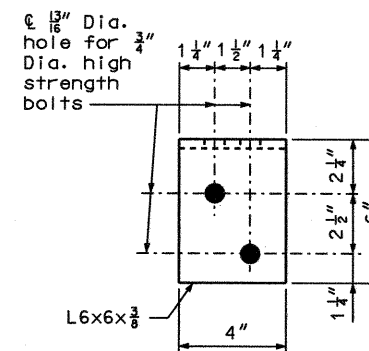
INTERMEDIATE STIFFENERS BETWEEN INTERMEDIATE DIAPHRAGMS

Note:
* Weld to compression flange as indicated on Plan of Structural Steel, Sheet Nos. 37, 39 and 43.



ELEVATION

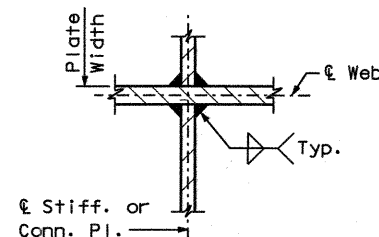
SIDE VIEW



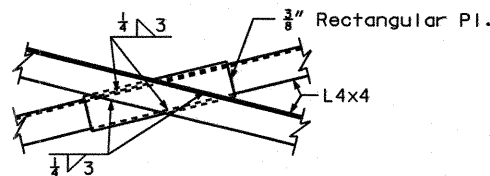
PLAN

DETAIL OF FLANGE CONNECTION ANGLE

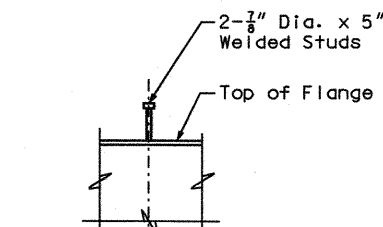
Notes:
All Fabricated Structural Steel shall be ASTM A709, Grade 50.
The two 3/4" diameter H.S. bolts that connect the 6x6x3/8 angles to the top flange shall be placed so the nut is on the inside of flange toward the web.
The 6x6x3/8 angle legs shall be adjusted to the variable angle between bearing stiffener and top flange created by girder tilt due to grade requirements.



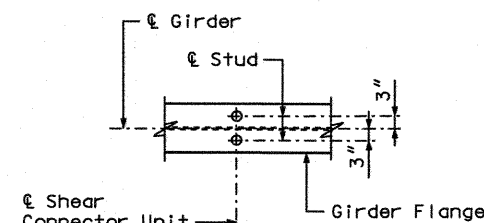
WELDING DETAILS



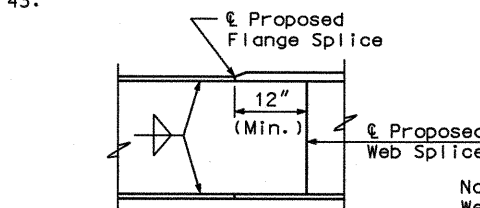
DETAIL "A" (OPTIONAL)



ELEVATION OF SHEAR CONNECTOR

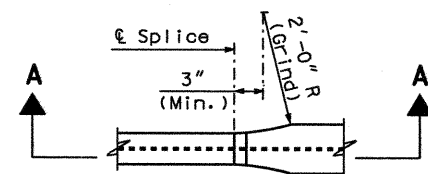


PLAN OF SHEAR CONNECTOR

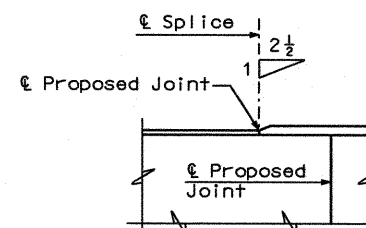


WELDED SHOP WEB SPLICE

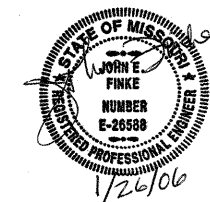
Note:
Welded shop web and flange splices may be permitted when detailed on the shop drawings and approved by the engineer. No additional payment will be made for optional welded shop web and flange splices.



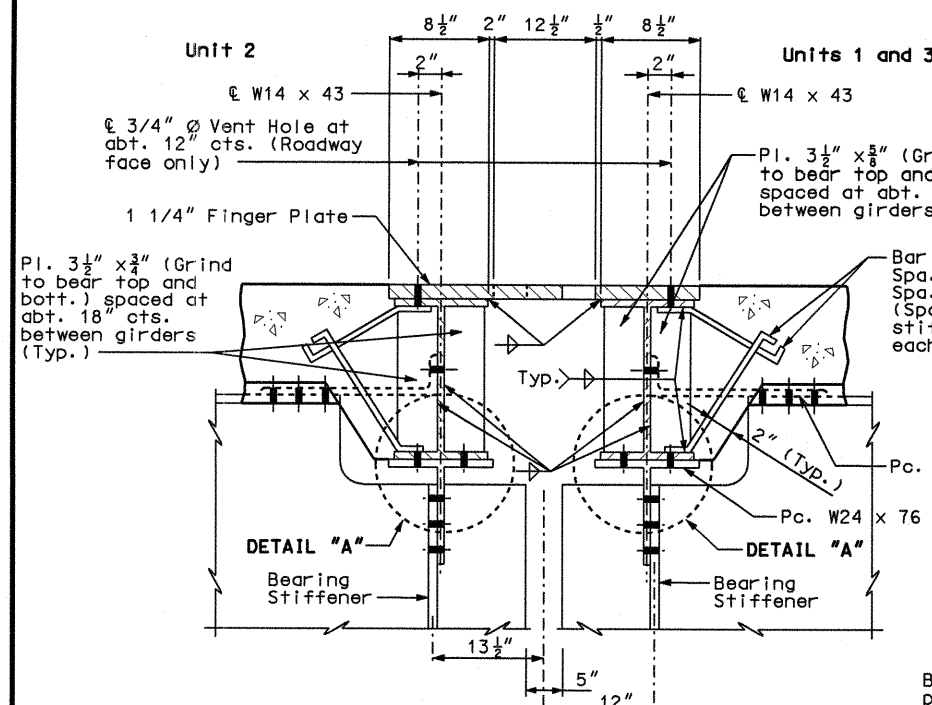
PLAN 2'-0" RADIUS TRANSITION



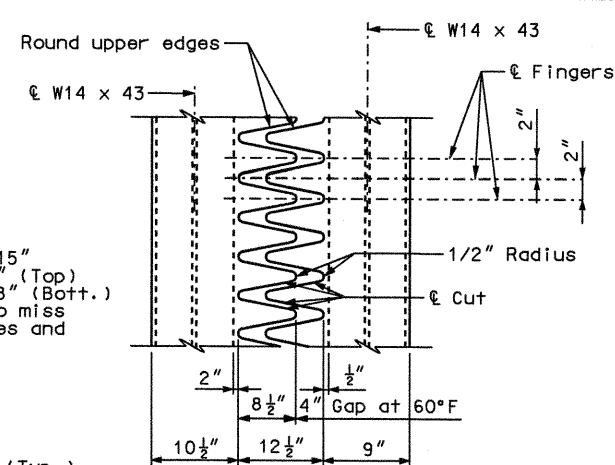
SECTION A-A WELDED SHOP FLANGE SPLICE



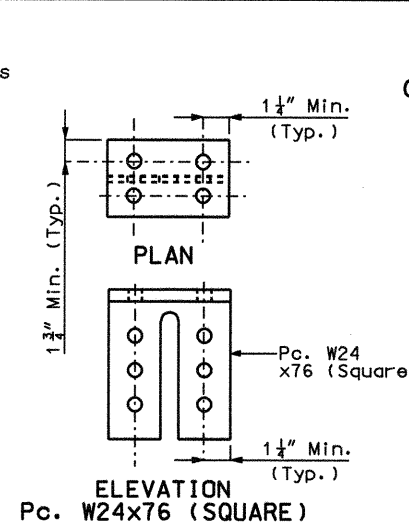
STATE	PROJ. NO.	SHEET NO.
MO		B50



PART SECTION THRU EXPANSION DEVICE

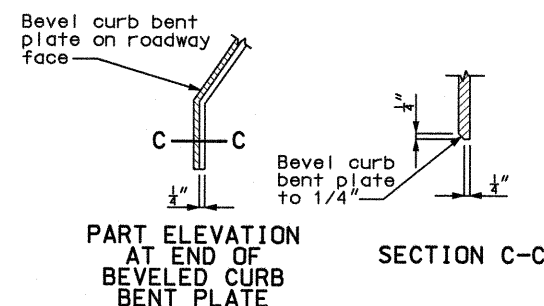


TYPICAL PLAN OF PLATE



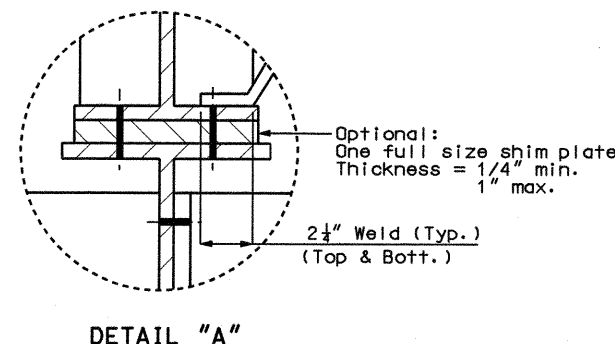
ELEVATION
Pc. W24x76 (SQUARE)

Note: Concrete shall be forced under and around finger plate supporting hardware, anchors, angles and bars. Proper consolidation shall be achieved by localized internal vibration.



PART ELEVATION
AT END OF
BEVELED CURB
BENT PLATE

SECTION C-C



DETAIL "A"

GENERAL NOTES:

Finger plate shall be cut with a machine guided gas torch from one plate. The plate from which fingers are cut may be spliced before fingers are cut. The surface of cut shall be perpendicular to the surface of the plate. The cut shall not exceed 1/8" in width. The centerline of cut shall not deviate more than 1/16" from the position of centerline of cut shown. No splicing of finger plate or finger plate assembly will be allowed after fingers are cut. The expansion device shall be fabricated and installed to the crown and grade of the roadway.

Plan dimensions are based on installation at 60°F. The expansion gap and other dimensions shall be increased or decreased 5/16" for Bent 3 and 1/2" for Bent 6 for each 10°F rise or fall in temperature at installation.

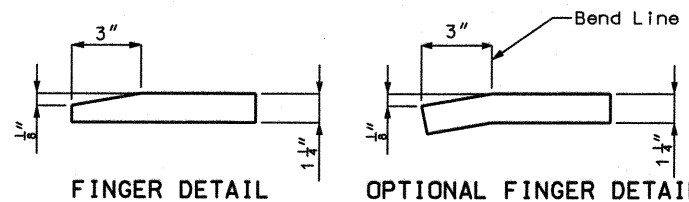
Material for the expansion device shall be ASTM A709 Grade 36 structural steel. Anchors for the expansion device shall be in accordance with Sec 1037.

Structural steel for the expansion device and curb plate shall be coated with a minimum of two coats of inorganic zinc primer (5 mils minimum) or galvanized in accordance with ASTM A123. Anchors need not be protected from overspray.

Payment for furnishing, coating or galvanizing and installing the structural steel for the expansion device will be considered completely covered by the contract unit price for Expansion Device (Finger Plate) per lin. ft.

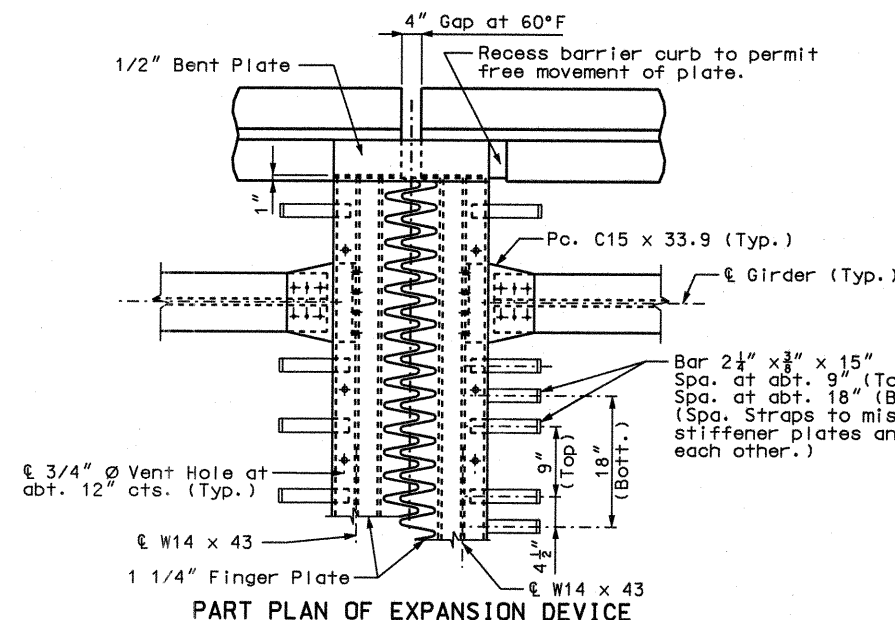
All holes shown for connections to be subpunched 11/16" Ø (shop or field drill) and reamed to 13/16" Ø in field.

Longitudinal reinforcing steel shall be placed so that ends shall not be more than ±1" from the web of W14x43 at the expansion device.

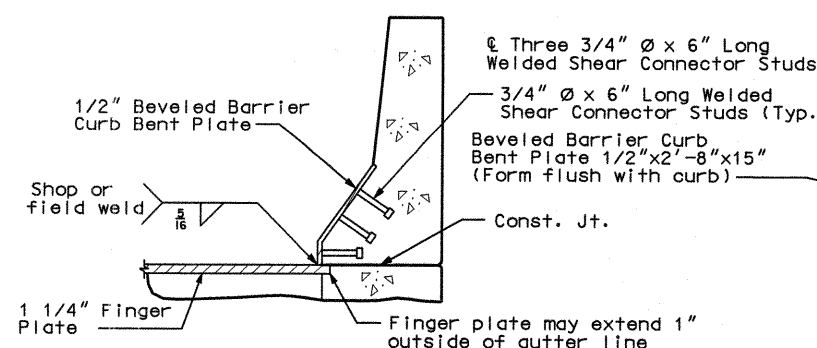


FINGER DETAIL

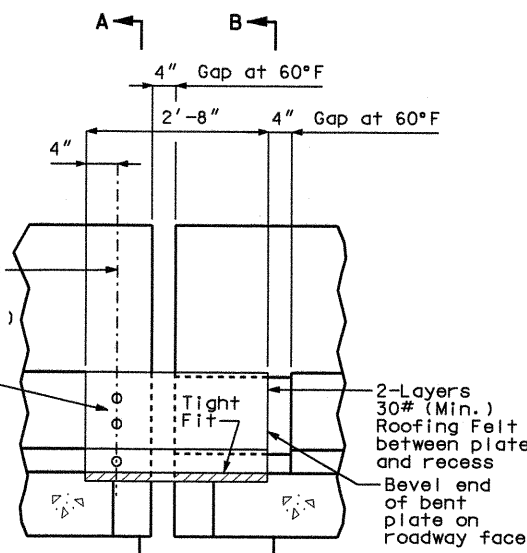
OPTIONAL FINGER DETAIL



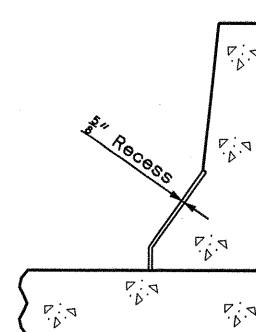
PART PLAN OF EXPANSION DEVICE



PART SECTION A-A

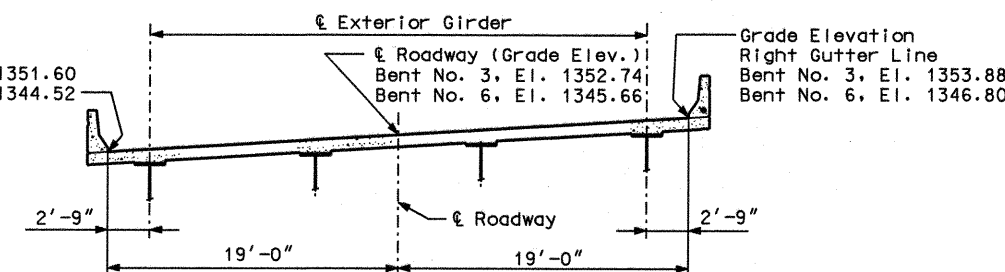


ELEVATION OF BARRIER CURB

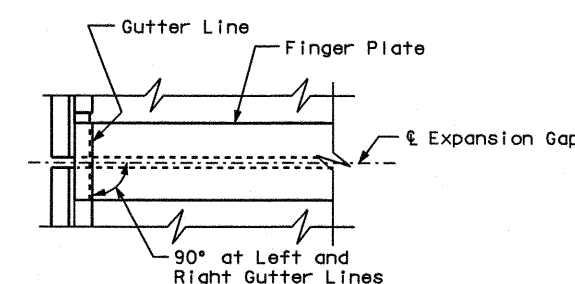


PART SECTION B-B

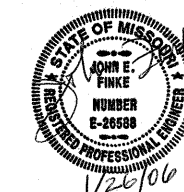
DETAILS OF FINGER PLATE EXPANSION DEVICE AT INT. BENT NOS. 3 AND 6



SECTION THRU EXPANSION GAP
AT INTERMEDIATE BENT NOS. 3 AND 6



PART PLAN



DETAILED: GJD OCT. 2005
CHECKED: FAC JAN. 2006

JACOBS CIVIL INC.
ST. LOUIS, MO.

SHEET NO. 50 OF 77
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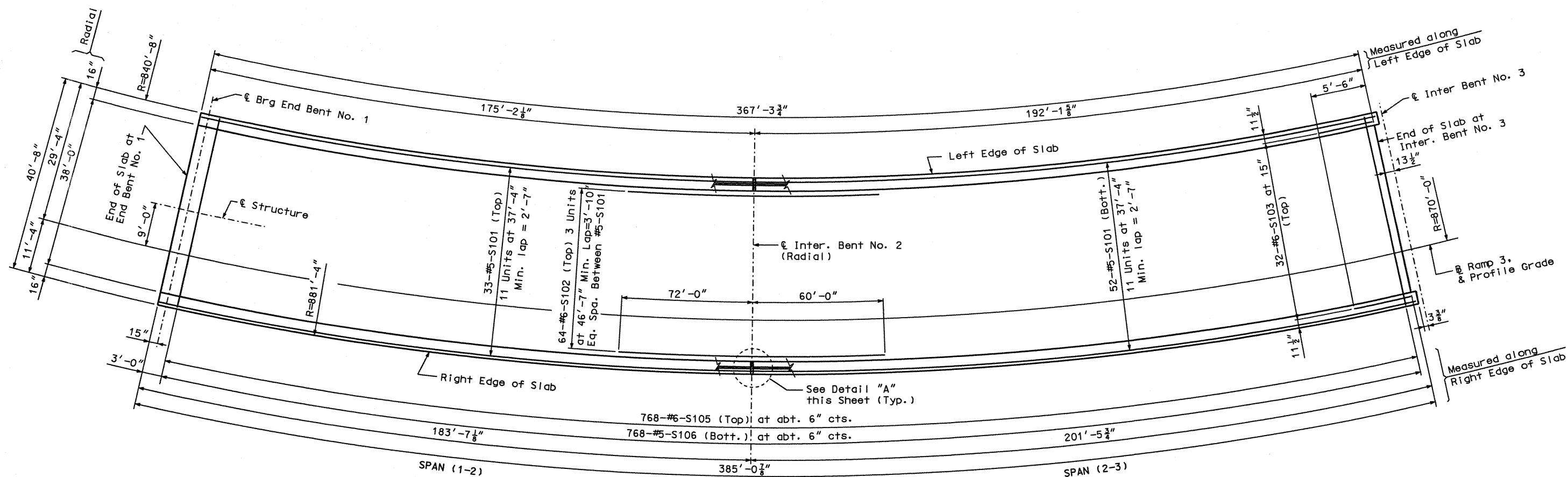
GREENE COUNTY

A7024

12:44 25-JAN-2006

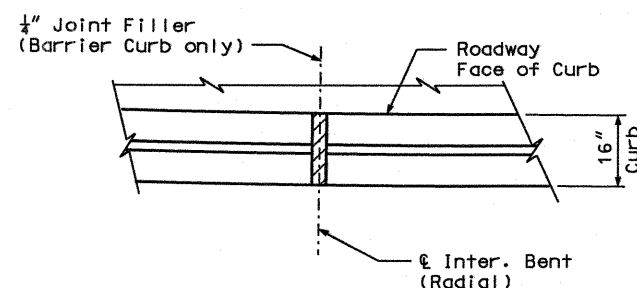
REV.

STATE	PROJ. NO.	SHEET NO.
MO		351



PLAN OF SLAB SHOWING REINFORCEMENT- UNIT 1

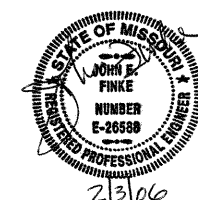
Note: All transverse reinforcing shall be spaced and placed radial along right edge of slab. Longitudinal reinforcing steel shall be placed so that ends shall not be more than 1"± from the web of the W14x43 at the expansion device.



DETAIL "A"

Notes:

- Longitudinal slab dimensions are measured horizontally.
- For Section thru Slab, see Sheet No. 54.
- For Slab Pouring Sequence, see Sheet No. 62.
- For details and Reinforcement of Safety Barrier Curb not shown, see Sheet No. 64.
- For Theoretical Bottom of Slab Elevations, Theoretical Slab Haunching Diagram, Plate Girder Camber Diagram and Dead Load Deflections, see Sheet No. 55.



DETAILS OF SLAB REINFORCEMENT - UNIT 1

DETAILED: GJD JUNE 2005
CHECKED: FAC JAN. 2006

JACOBS CIVIL INC.
ST. LOUIS, MO.

SHEET NO. 51 OF 77

GREENE COUNTY

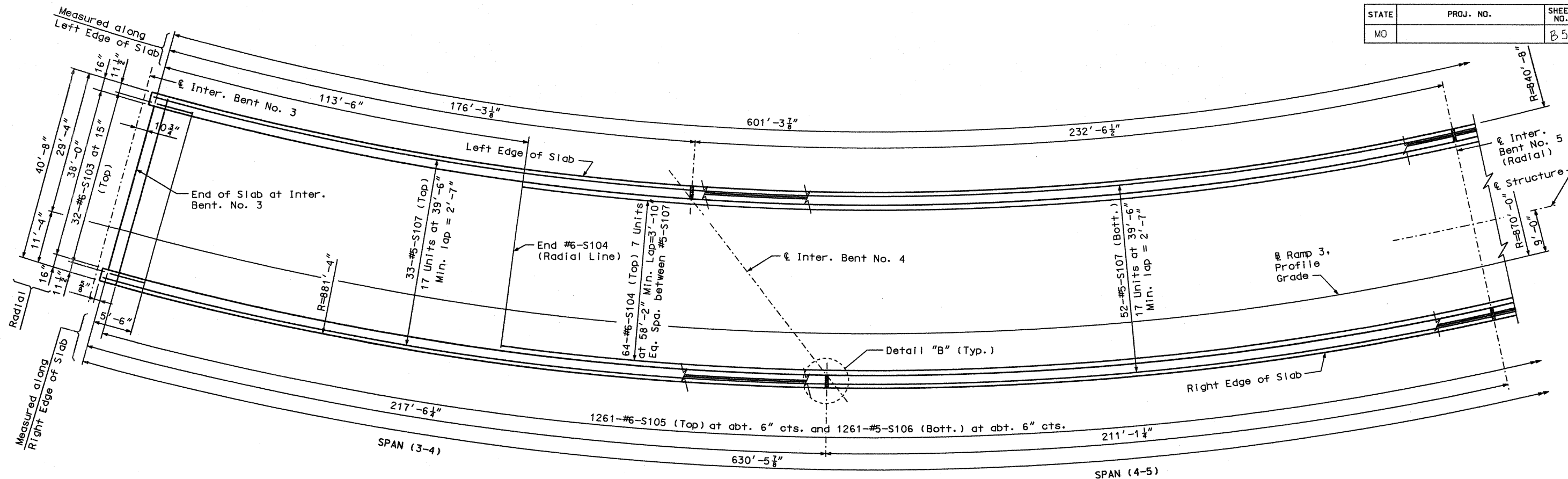
A7024

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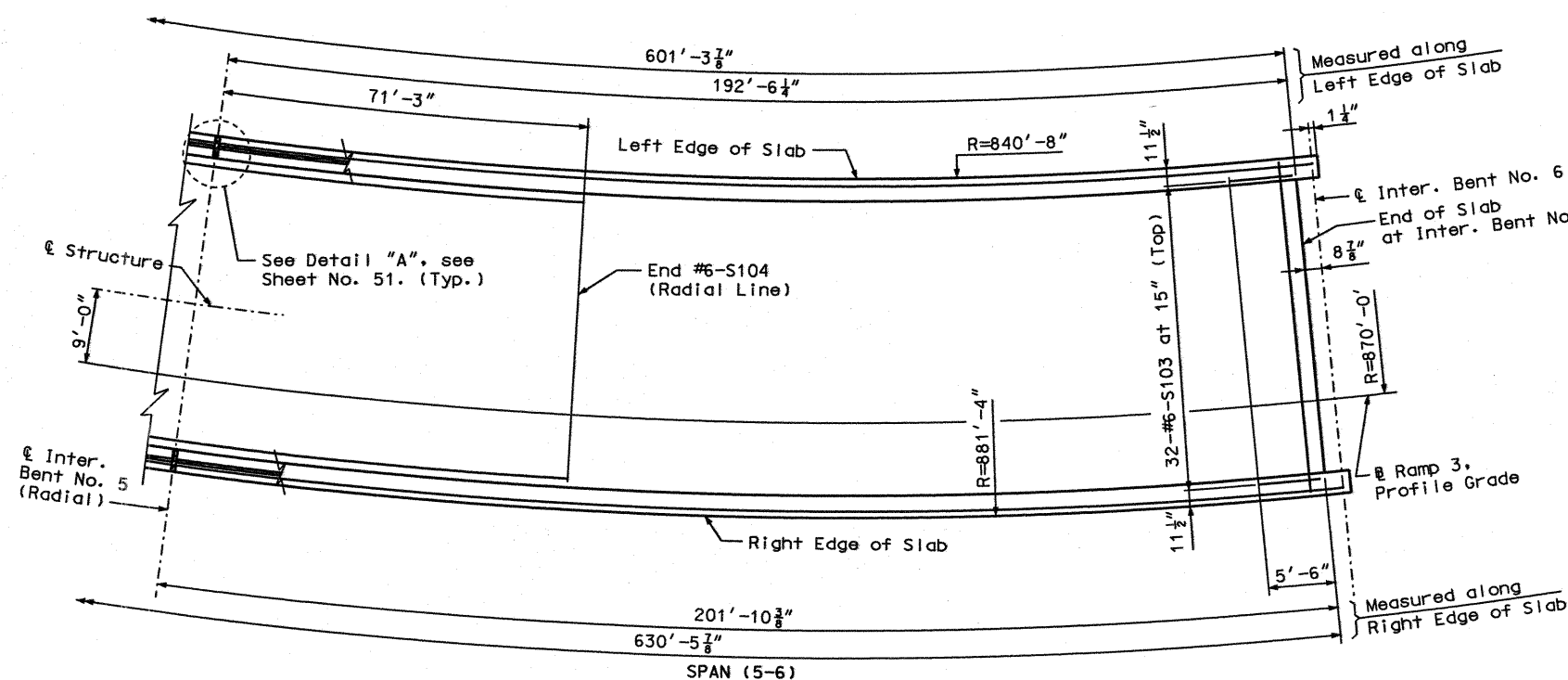
REV.

STATE	PROJ. NO.	SHEET NO.
MO		B 52

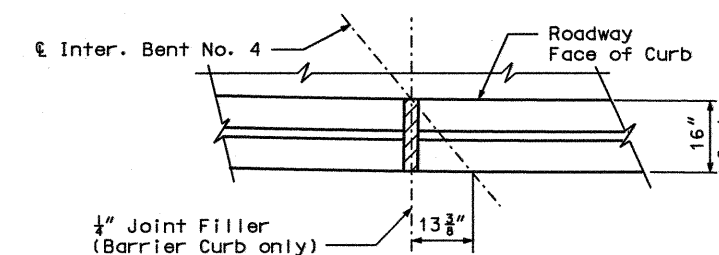


PLAN OF SLAB SHOWING REINFORCEMENT - UNIT 2

Note: All transverse reinforcing shall be spaced and placed radial along right edge of slab. Longitudinal reinforcing steel shall be placed so that ends shall not be more than 1"± from the web of the W14x43 at the expansion device.



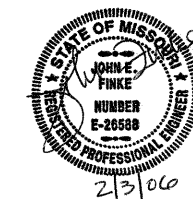
PLAN OF SLAB SHOWING REINFORCEMENT - UNIT 2



DETAIL "B"

Notes:

- Longitudinal slab dimensions are measured horizontally.
- For Section thru Slab, see Sheet No. 54.
- For Slab Pouring Sequence, see Sheet No. 62.
- For details and Reinforcement of Safety Barrier Curb not shown, see Sheet No. 65.
- For Plate Girder Camber Diagram and Dead Load Deflections, see Sheet No. 56.
- For Theoretical Bottom of Slab Elevations and Theoretical Slab Haunching Diagram, see Sheet No. 57.
- For Detail "A", see Sheet No. 51.



DETAILS OF SLAB REINFORCEMENT - UNIT 2

DETAILED: GJD JUNE 2005
CHECKED: FAC JAN. 2006

JACOBS CIVIL INC.
ST. LOUIS, MO.

SHEET NO. 52 OF 77

GREENE COUNTY

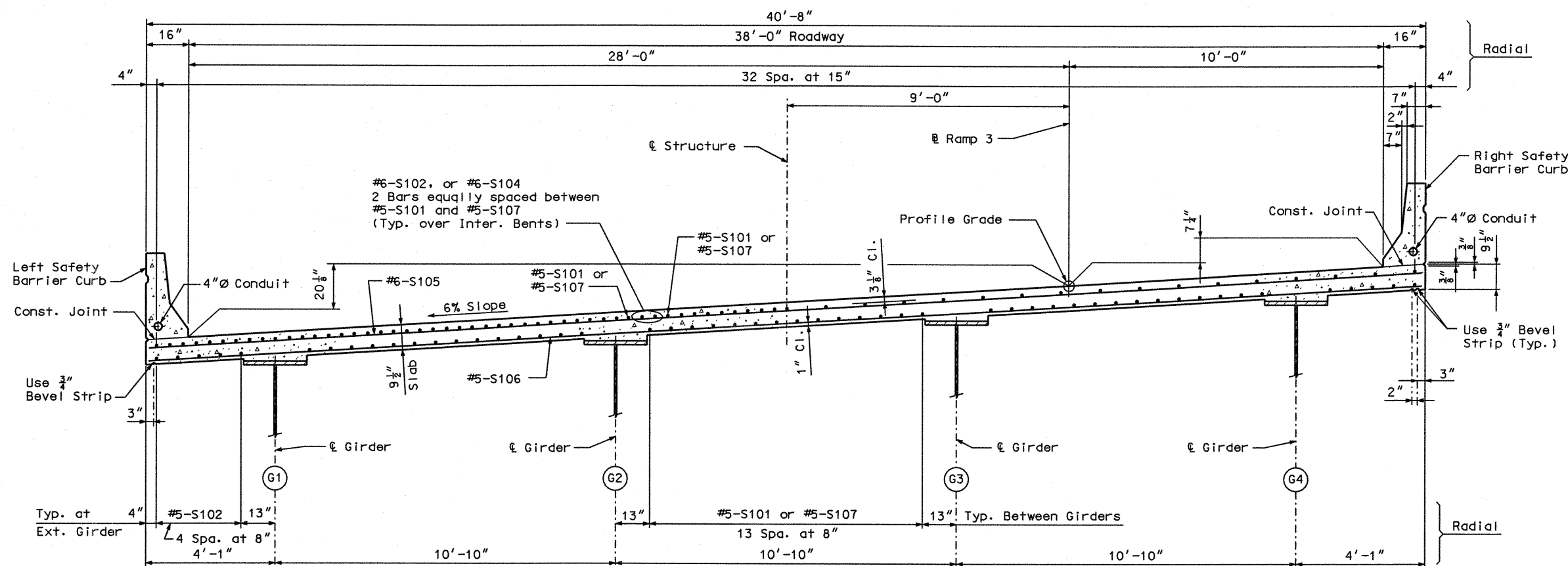
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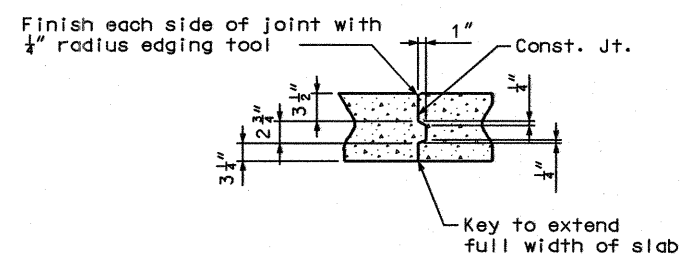
STATE	PROJ. NO.	SHEET NO.
MO		B54



HALF SECTION NEAR INTERMEDIATE BENT
AND HALF SECTION AT SPAN (4-5)

HALF SECTION NEAR ̑ SPAN

TYPICAL CROSS SECTION
(Looking ahead station)



TYPICAL SLAB CONSTRUCTION JOINT DETAIL

Notes:

- For details of Slab Pouring Sequence, see Sheet No. 62.
- For details of Safety Barrier Curbs, see Sheet Nos. 64 thru 66.
- For Plan of Slab Showing Reinforcement, see Sheet Nos. 51 thru 53.
- For details of Slab Drains, see Sheet No. 63.

DETAILS OF SLAB REINFORCEMENT - UNITS 1 THRU 3

DETAILED: GJD JULY 2005
CHECKED: FAC DEC. 2005

JACOBS CIVIL INC.
ST. LOUIS, MO.

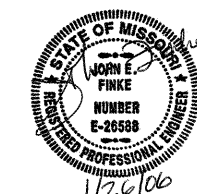
SHEET NO. 54 OF 77

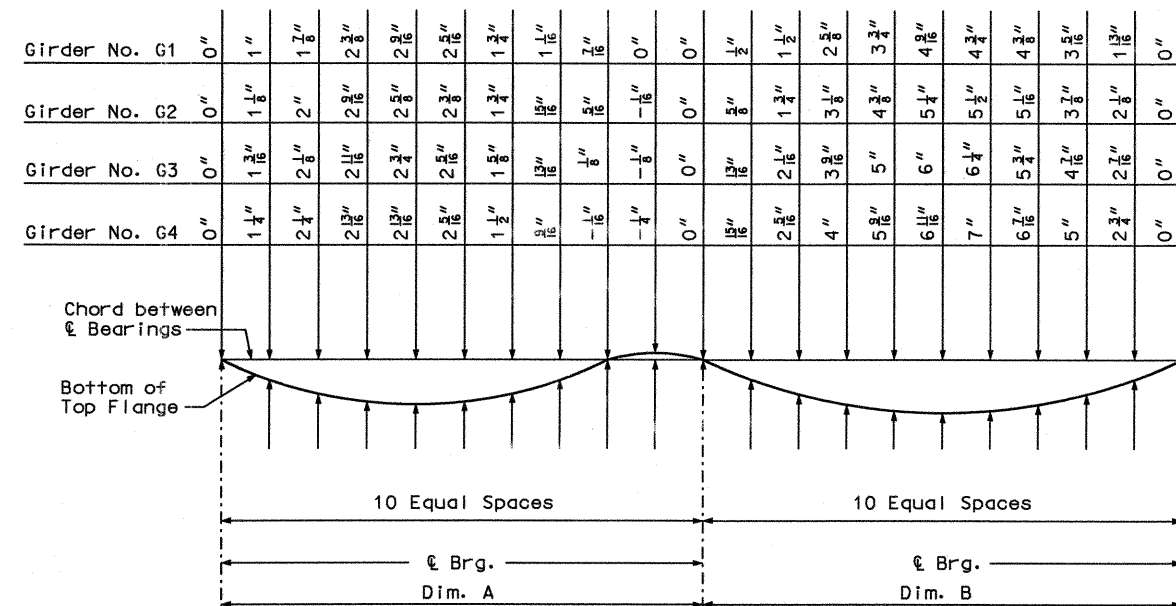
GREENE COUNTY

A7024

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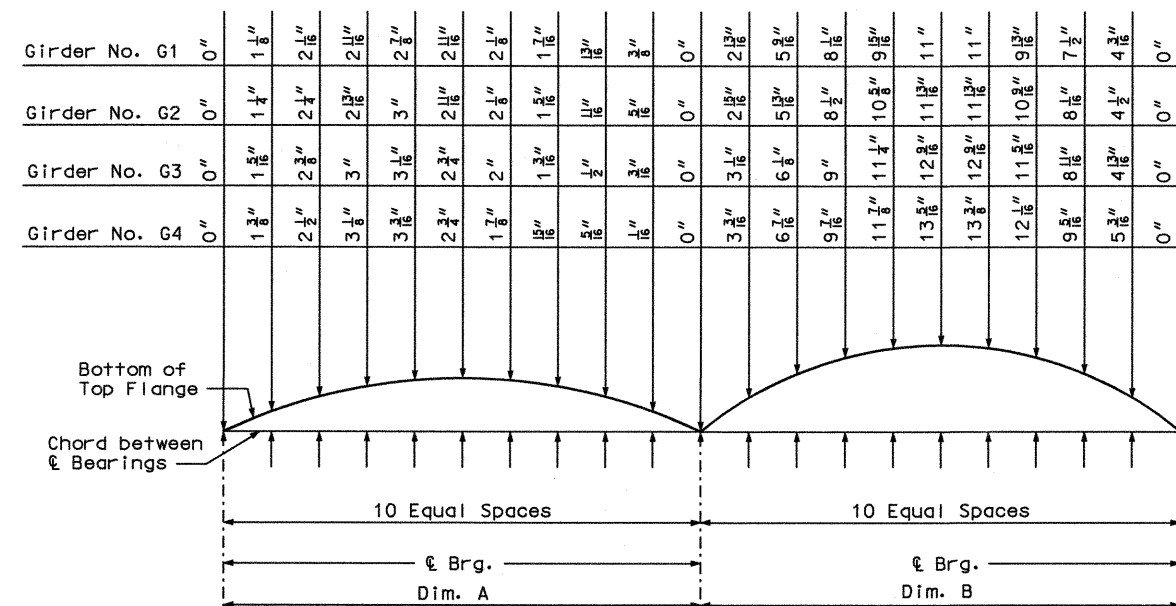
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SPAN (1-2) SPAN (2-3)
DEAD LOAD DEFLECTION DIAGRAM

Notes:
Dead load deflection includes weight of structural steel, concrete slab, and barrier curb.
24% of dead load deflection is due to the weight of structural steel.



SPAN (1-2) SPAN (2-3)
PLATE GIRDER CAMBER DIAGRAM

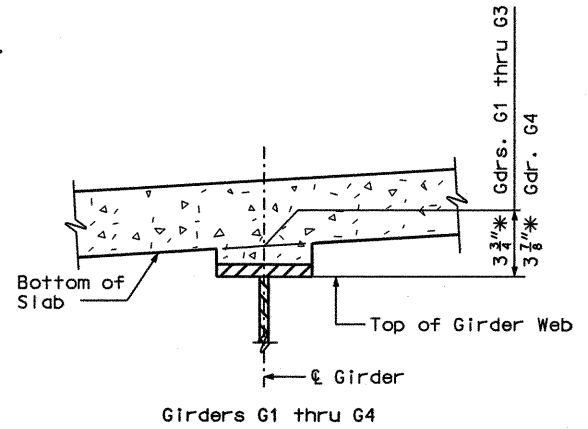
Note:
Camber includes allowance for vertical curve and dead load deflection due to concrete slab, curb and structural steel.

STATE	PROJ. NO.	SHEET NO.
MO		B55

VARIABLE DIMENSIONS		
Girder	Dim. A	Dim. B
G1	174'-9 ⁵ / ₁₆ "	193'-2 ¹¹ / ₁₆ "
G2	177'-0 ³ / ₁₆ "	195'-8 ¹ / ₁₆ "
G3	179'-3 ¹ / ₈ "	198'-2 ³ / ₁₆ "
G4	181'-6"	200'-7 ¹ / ₈ "

THEORETICAL BOTTOM OF SLAB ELEVATIONS AT £ OF GIRDER (PRIOR TO FORMING FOR SLAB) **																					
Location	Span 1-2 (Dim. A £ Brg. - £ Brg.)										Span 2-3 (Dim. B £ Brg. - £ Brg.)										
	£ Brg.	.10	.20	.30	.40	.50	.60	.70	.80	.90	£ Brg.	.10	.20	.30	.40	.50	.60	.70	.80	.90	£ Brg.
Girder No. G1	1336.67	1337.55	1338.41	1339.25	1340.07	1340.85	1341.62	1342.38	1343.14	1343.91	1344.68	1345.53	1346.37	1347.18	1347.95	1348.65	1349.27	1349.81	1350.26	1350.64	1350.95
Girder No. G2	1337.32	1338.21	1339.07	1339.92	1340.73	1341.51	1342.27	1343.02	1343.78	1344.56	1345.33	1346.18	1347.03	1347.85	1348.63	1349.34	1349.96	1350.50	1350.94	1351.30	1351.60
Girder No. G3	1337.97	1338.86	1339.74	1340.58	1341.39	1342.17	1342.93	1343.67	1344.43	1345.20	1345.98	1346.84	1347.69	1348.53	1349.31	1350.02	1350.65	1351.18	1351.62	1351.97	1352.25
Girder No. G4	1338.62	1339.52	1340.40	1341.25	1342.06	1342.83	1343.57	1344.31	1345.07	1345.85	1346.63	1347.50	1348.36	1349.20	1349.99	1350.71	1351.34	1351.87	1352.30	1352.64	1352.90

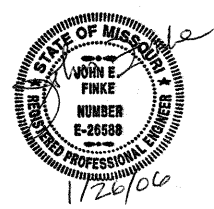
** Elevations are based on a constant slab thickness of 9¹/₂" and include allowance for theoretical dead load deflections due to weight of slab and barrier curb.

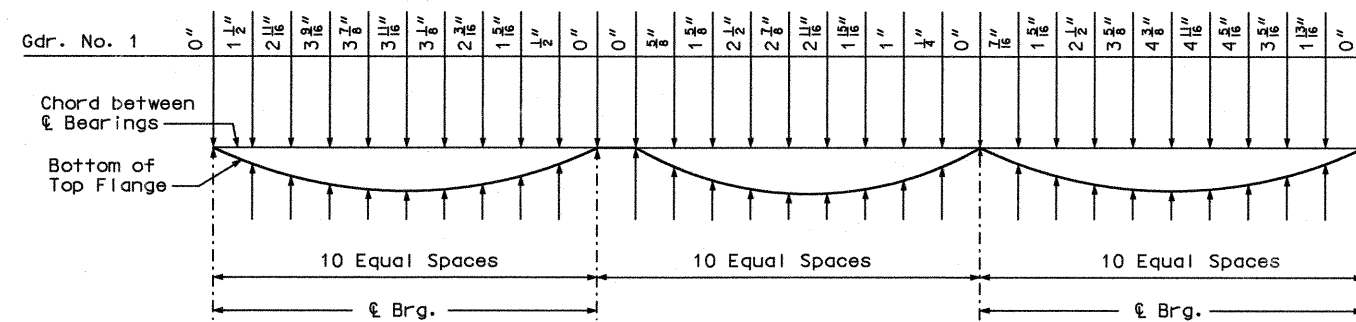


Girders G1 thru G4
THEORETICAL SLAB HAUNCH

Note:
* Dimensions may vary if the girder camber after erection differs from plan camber by more or less than the % of dead load deflection due to weight of structural steel. No payment will be made for any adjustment in forming or additional concrete required for variation in haunching.

DEAD LOAD DEFLECTIONS, CAMBER DIAGRAMS AND BOTTOM OF SLAB ELEVATIONS - UNIT 1

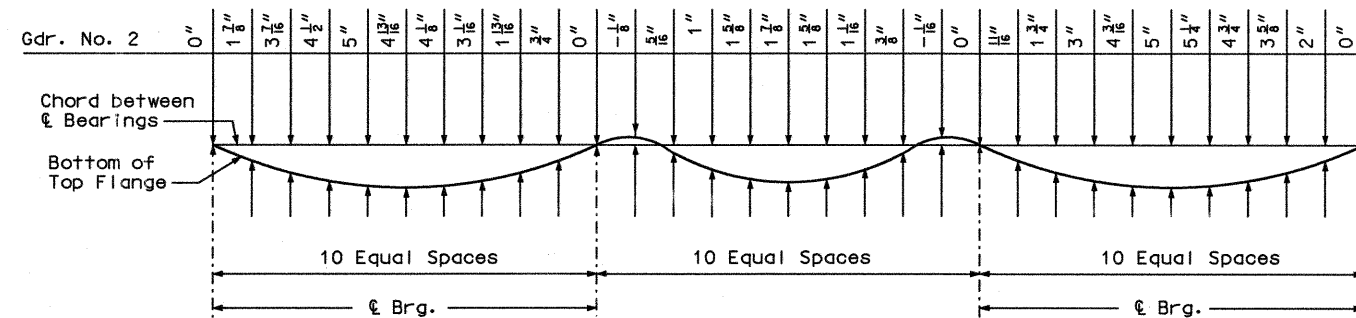




SPAN (3-4)

SPAN (4-5)

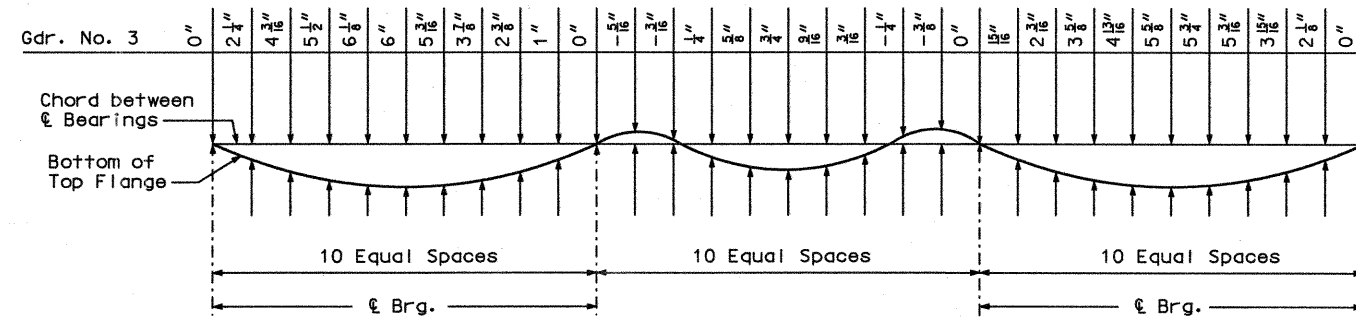
SPAN (5-6)



SPAN (3-4)

SPAN (4-5)

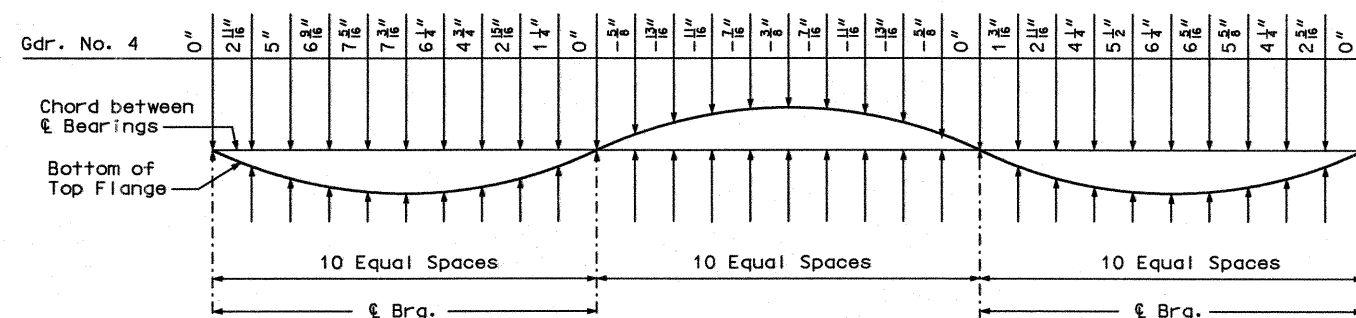
SPAN (5-6)



SPAN (3-4)

SPAN (4-5)

SPAN (5-6)



SPAN (3-4)

SPAN (4-5)

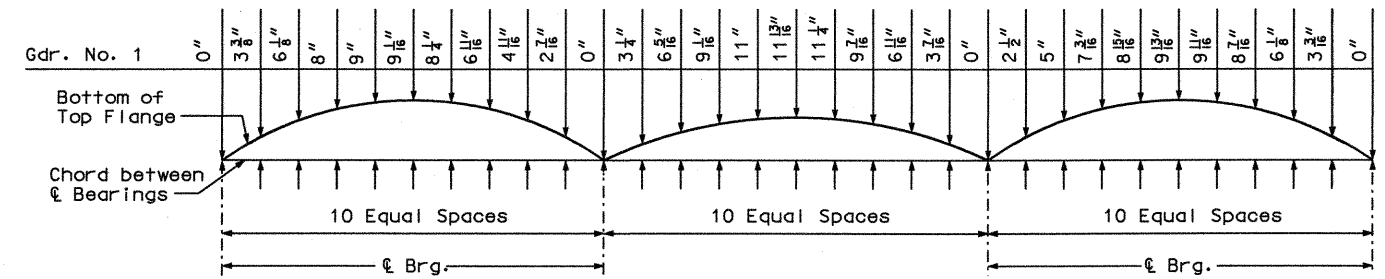
SPAN (5-6)

Notes:

DEAD LOAD DEFLECTION DIAGRAM

Dead load deflection includes weight of structural steel, concrete slab and barrier curb.

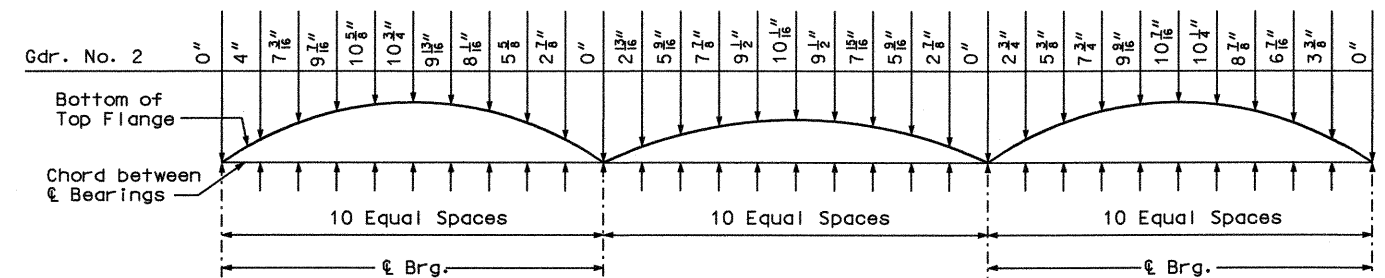
24% of dead load deflection is due to weight of structural steel.



SPAN (3-4)

SPAN (4-5)

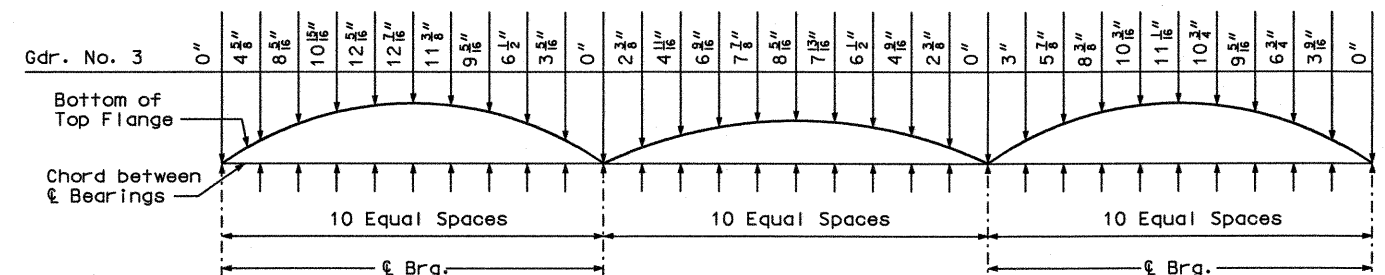
SPAN (5-6)



SPAN (3-4)

SPAN (4-5)

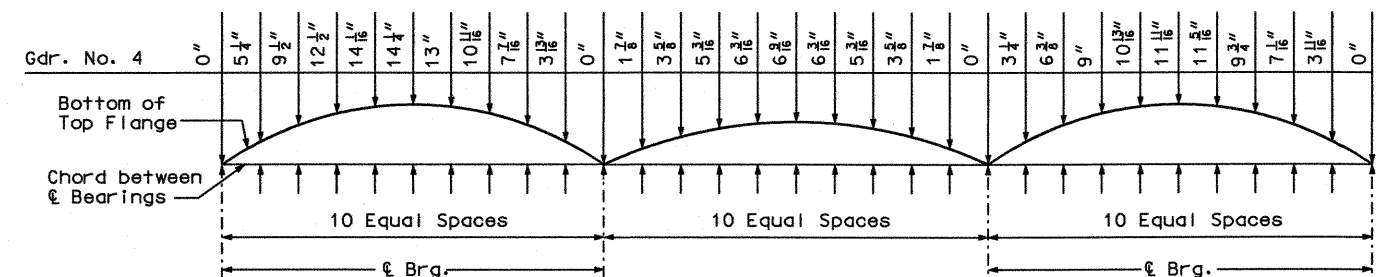
SPAN (5-6)



SPAN (3-4)

SPAN (4-5)

SPAN (5-6)



SPAN (3-4)

SPAN (4-5)

SPAN (5-6)

PLATE GIRDER CAMBER DIAGRAM

Note:

Camber includes allowance for vertical curve and dead load deflection due to concrete slab, curb and structural steel.



DEAD LOAD DEFLECTIONS AND CAMBER DIAGRAMS - UNIT 2

DETAILED: GJD JUNE 2005
CHECKED: JOS JAN. 2006

JACOBS CIVIL INC.
ST. LOUIS, MO.

SHEET NO. 56 OF 77

GREENE COUNTY

A7024

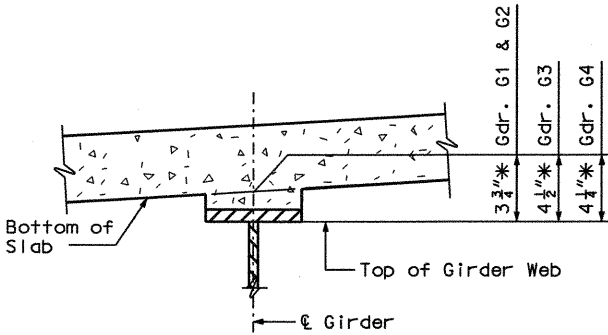
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REV.

THEORETICAL BOTTOM OF SLAB ELEVATIONS AT C OF GIRDER (PRIOR TO FORMING FOR SLAB **)																					
Location	Span 3-4 (199'-10 1/2" C Brg. - C Brg.)											Span 4-5 (224'-0" C Brg. - C Brg.)									
	C Brg.	.10	.20	.30	.40	.50	.60	.70	.80	.90	C Brg.	.10	.20	.30	.40	.50	.60	.70	.80	.90	C Brg.
Girder No. G1	1350.99	1351.46	1351.88	1352.23	1352.51	1352.73	1352.88	1352.97	1353.03	1353.06	1353.08	1353.09	1353.08	1353.03	1352.92	1352.71	1352.41	1352.02	1351.56	1351.04	1350.50
Girder No. G2	1351.64	1352.15	1352.59	1352.96	1353.25	1353.48	1353.53	1353.71	1353.74	1353.75	1353.74	1353.72	1353.68	1353.61	1353.47	1353.25	1352.95	1352.57	1352.13	1351.65	1351.15
Girder No. G3	1352.29	1352.83	1353.30	1353.70	1354.01	1354.23	1354.37	1354.44	1354.45	1354.43	1354.39	1354.34	1354.27	1354.17	1354.01	1353.79	1353.49	1353.13	1352.72	1352.27	1351.80
Girder No. G4	1352.94	1353.52	1354.02	1354.43	1354.75	1354.98	1355.11	1355.16	1355.15	1355.10	1355.03	1354.95	1354.85	1354.72	1354.55	1354.32	1354.04	1353.69	1353.31	1352.89	1352.45
Location	Span 5-6 (199'-10 1/2" C Brg. - C Brg.)																				
	C Brg.	.10	.20	.30	.40	.50	.60	.70	.80	.90	C Brg.										
Girder No. G1	1350.50	1350.05	1349.58	1349.10	1348.56	1347.97	1347.30	1346.54	1345.71	1344.83	1343.94										
Girder No. G2	1351.15	1350.71	1350.25	1349.77	1349.23	1348.64	1347.96	1347.20	1346.36	1345.48	1344.59										
Girder No. G3	1351.80	1351.37	1350.92	1350.44	1349.90	1349.30	1348.62	1347.86	1347.02	1346.14	1345.24										
Girder No. G4	1352.45	1352.03	1351.59	1351.11	1350.57	1349.97	1349.28	1348.52	1347.57	1346.79	1345.89										

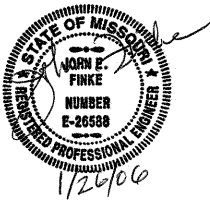
** Elevations are based on a constant slab thickness of 9 1/2" and include allowance for theoretical dead load deflections due to weight of slab and barrier curb.

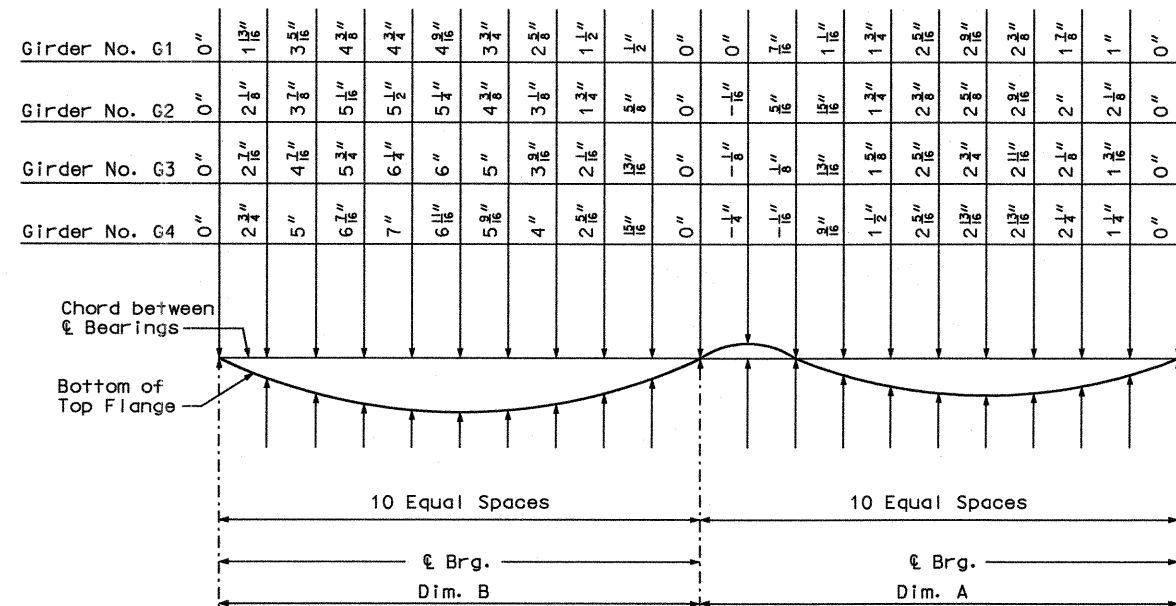


Girders G1 thru G4
THEORETICAL SLAB HAUNCH

Note:
* Dimensions may vary if the girder camber after erection differs from plan camber by more or less than the % of dead load deflection due to weight of structural steel. No payment will be made for any adjustment in forming or additional concrete required for variation in haunching.

BOTTOM OF SLAB ELEVATIONS - UNIT 2



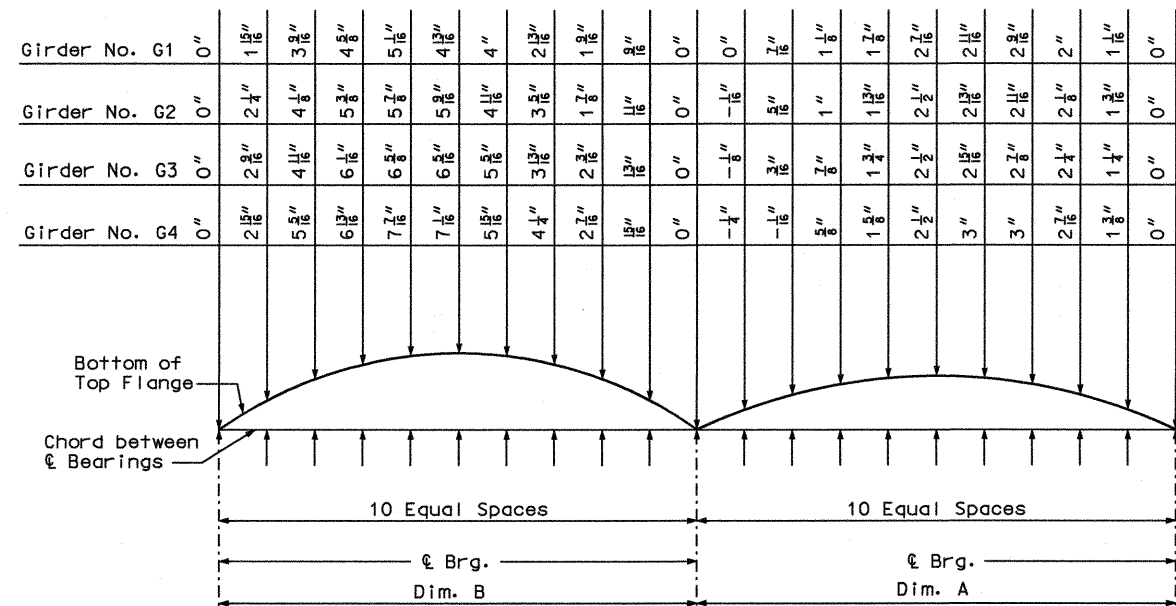


SPAN (6-7) SPAN (7-8)

DEAD LOAD DEFLECTION DIAGRAM

Notes:

Dead load deflection includes weight of structural steel, concrete slab, and barrier curb.
24% of dead load deflection is due to the weight of structural steel.



SPAN (6-7) SPAN (7-8)

PLATE GIRDER CAMBER DIAGRAM

Note:

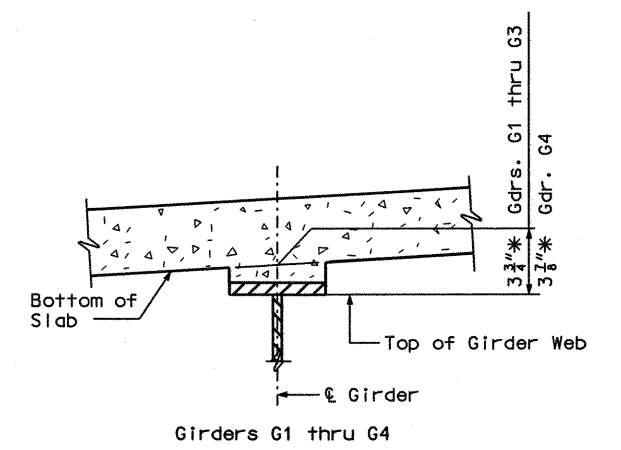
Camber includes allowance for dead load deflection due to concrete slab, curb and structural steel.

STATE	PROJ. NO.	SHEET NO.
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VARIABLE DIMENSIONS		
Girder	Dim. A	Dim. B
G1	174'-9 5/16"	193'-2 11/16"
G2	177'-0 3/16"	195'-8 7/16"
G3	179'-3 1/8"	198'-2 3/8"
G4	181'-6"	200'-7 3/8"

THEORETICAL BOTTOM OF SLAB ELEVATIONS AT ̸ OF GIRDER (PRIOR TO FORMING FOR SLAB) **																					
Location	Span 6-7 (Dim. B ̸ Brg. - ̸ Brg.)										Span 7-8 (Dim. A ̸ Brg. - ̸ Brg.)										
	̸ Brg.	.10	.20	.30	.40	.50	.60	.70	.80	.90	̸ Brg.	.10	.20	.30	.40	.50	.60	.70	.80	.90	̸ Brg.
Girder No. G1	1343.86	1343.21	1342.55	1341.84	1341.10	1340.31	1339.48	1338.63	1337.78	1336.94	1336.13	1335.43	1334.76	1334.10	1333.45	1332.79	1332.11	1331.40	1330.66	1329.90	1329.13
Girder No. G2	1344.51	1343.88	1343.23	1342.53	1341.79	1341.00	1340.17	1339.31	1338.44	1337.59	1336.78	1336.08	1335.40	1334.75	1334.11	1333.45	1332.77	1332.06	1331.33	1330.56	1329.78
Girder No. G3	1345.16	1344.55	1343.91	1343.22	1342.48	1341.68	1340.85	1339.98	1339.10	1338.25	1337.43	1336.72	1336.05	1335.40	1334.76	1334.11	1333.43	1332.73	1331.99	1331.22	1330.43
Girder No. G4	1345.81	1345.21	1344.59	1343.91	1343.17	1342.37	1341.52	1340.65	1339.77	1338.90	1338.08	1337.37	1336.69	1336.04	1335.41	1334.76	1334.10	1333.39	1332.65	1331.88	1331.08

** Elevations are based on a constant slab thickness of 9 1/2" and include allowance for theoretical dead load deflections due to weight of slab and barrier curb.



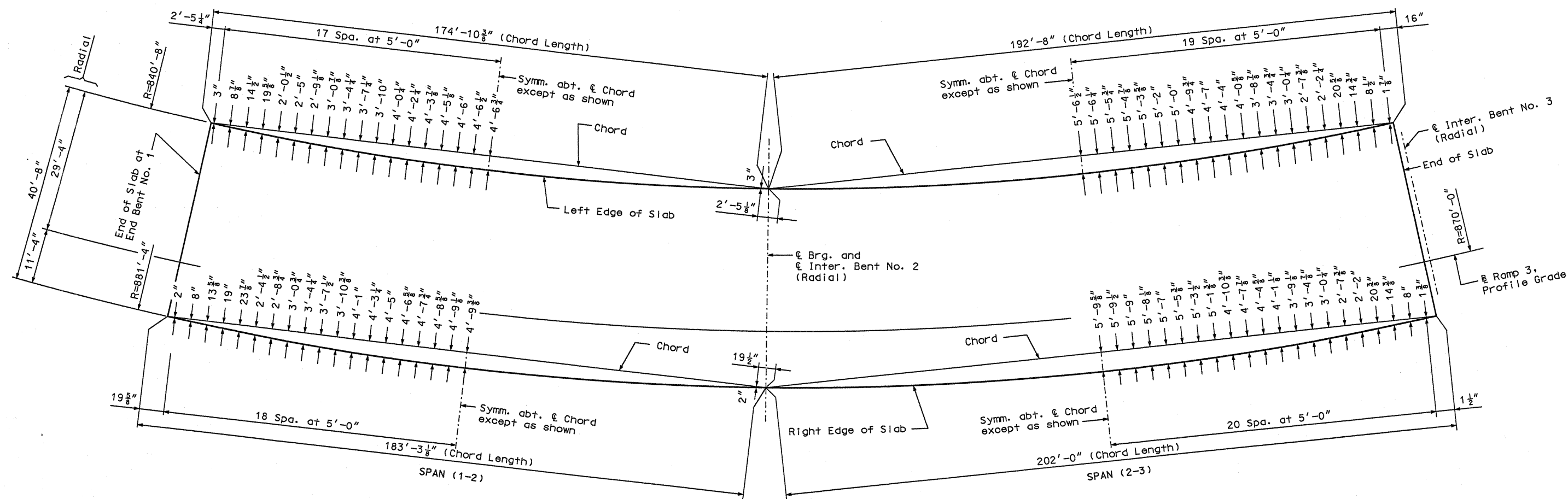
THEORETICAL SLAB HAUNCH

Note:
* Dimensions may vary if the girder camber after erection differs from plan camber by more or less than the % of dead load deflection due to weight of structural steel. No payment will be made for any adjustment in forming or additional concrete required for variation in haunching.

**DEAD LOAD DEFLECTIONS, CAMBER DIAGRAMS AND
BOTTOM OF SLAB ELEVATIONS - UNIT 3**

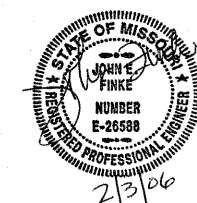


STATE	PROJ. NO.	SHEET NO.
MO		B59



PLAN - UNIT 1

EDGE OF SLAB ORDINATES - UNIT 1



DETAILED: GJD JUNE 2005
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JACOBS CIVIL INC.
ST. LOUIS, MO.

SHEET NO. 59 OF 77

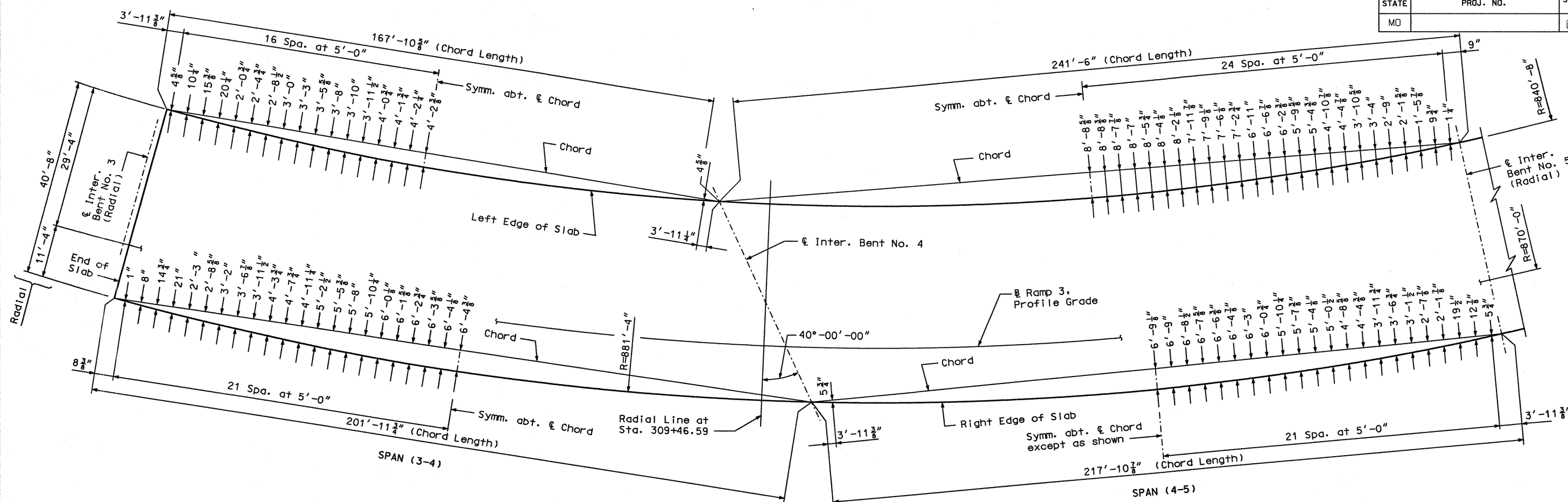
GREENE COUNTY

A7024

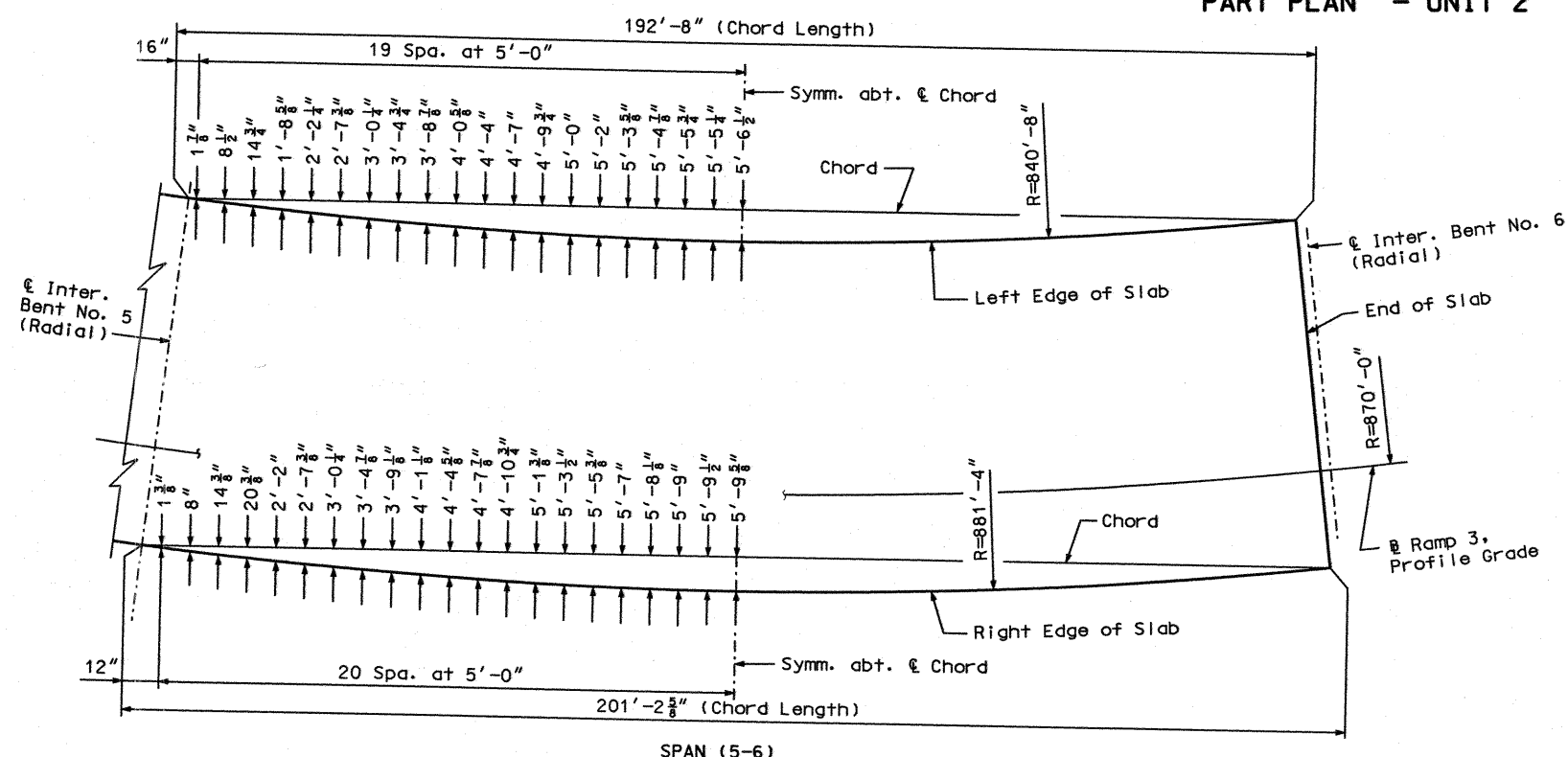
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MO		860

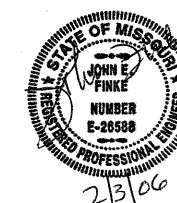


PART PLAN - UNIT 2



PART PLAN - UNIT 2

EDGE OF SLAB ORDINATES - UNIT 2



DETAILED: GJD JUNE 2005
CHECKED: JEF JAN. 2006

JACOBS CIVIL INC.
ST. LOUIS, MO.

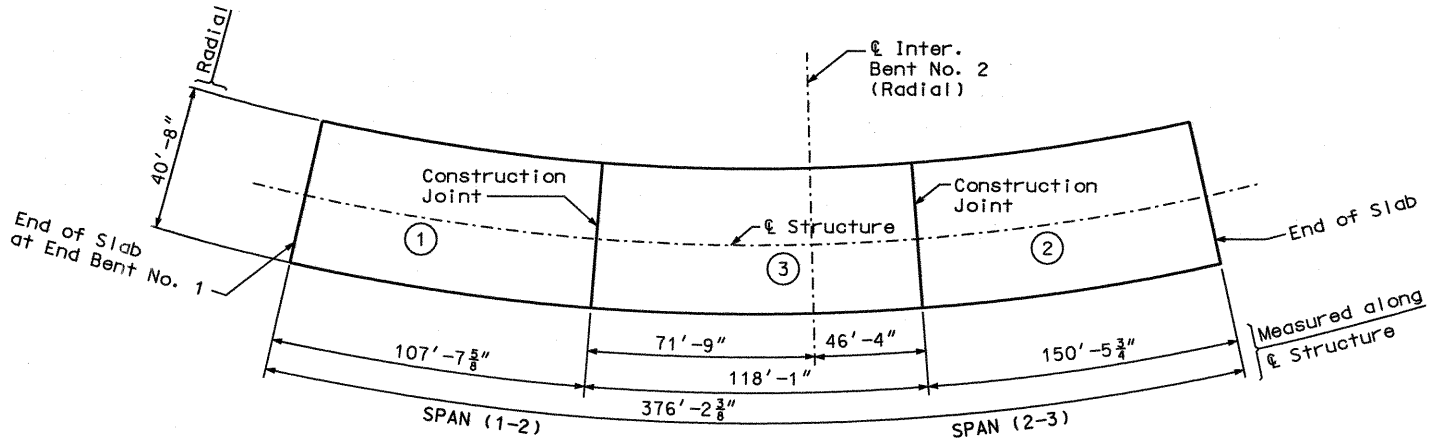
SHEET NO. 60 OF 77

GREENE COUNTY

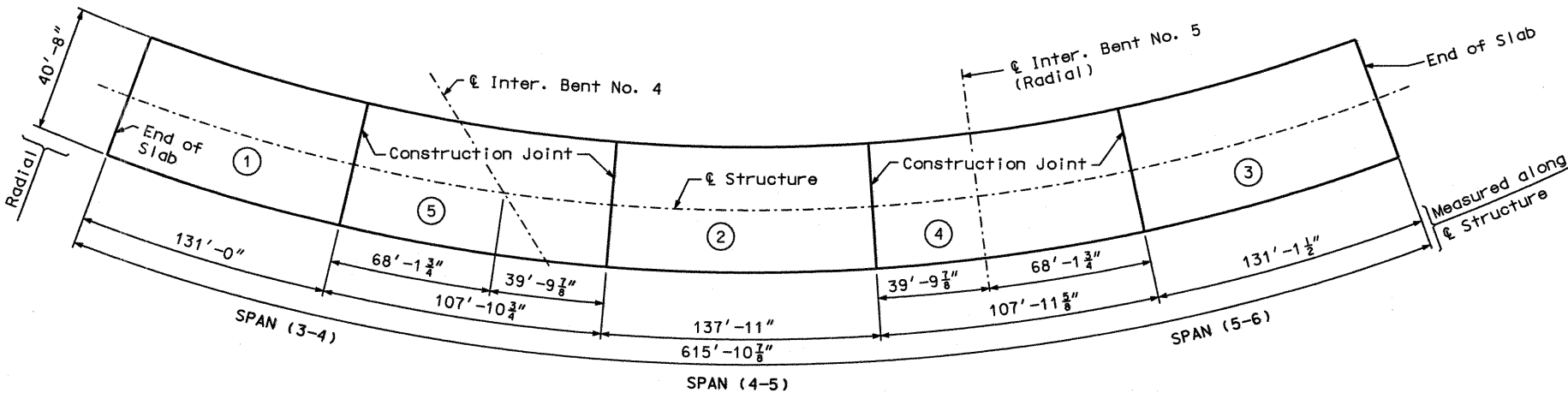
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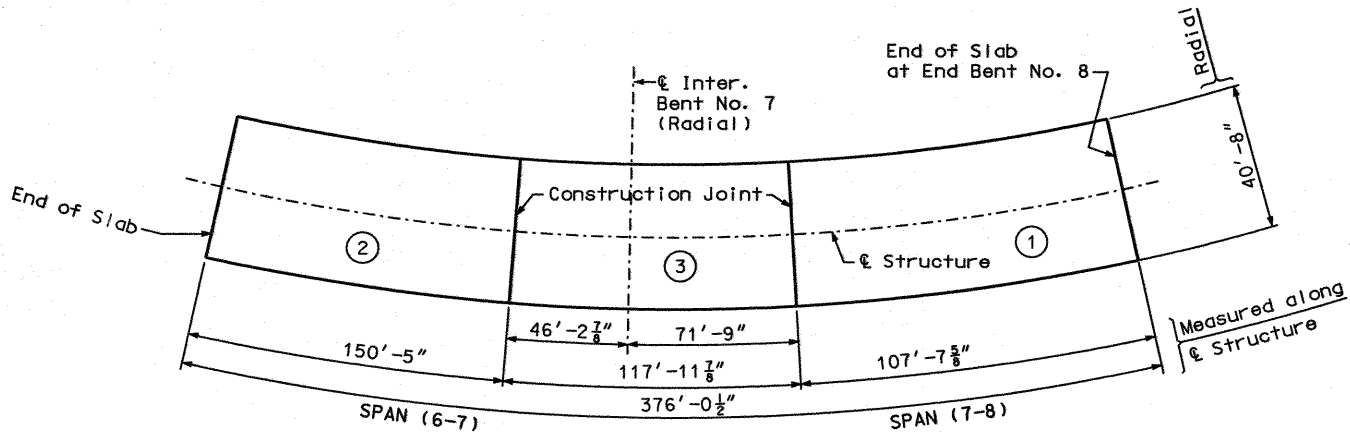
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SLAB POURING SEQUENCE- UNIT 1



SLAB POURING SEQUENCE- UNIT 2

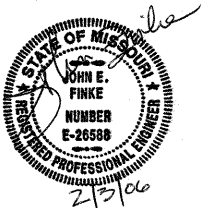


SLAB POURING SEQUENCE- UNIT 3

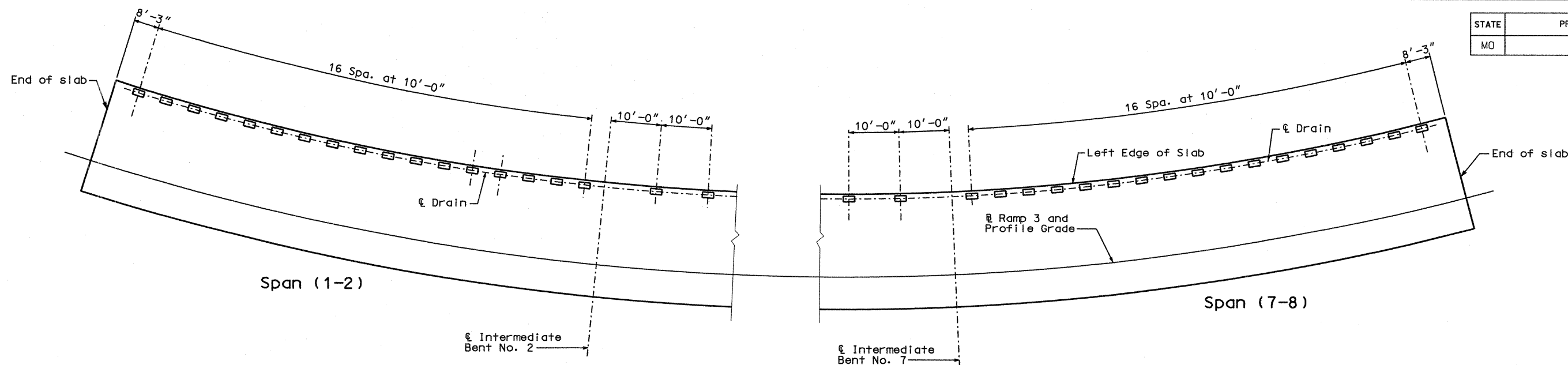
SLAB POURING SEQUENCE - UNITS 1 THRU 3

Unit 1	Sequence of Pours					Min. rate of pour cu. yds./hr.	
	Direction					With Retarder	No Retarder
	1	2	3			25	25
Basic Sequence	As Shown						
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703 of Missouri Standard Specifications.							
Alternate "A" pours	1	3 + 2				65	---
	End to 3		1 to End				
	Alternate "B" pours	1 + 3 + 2					65
End to End							
Unit 2	Sequence of Pours					Min. rate of pour cu. yds./hr.	
	Direction					With Retarder	No Retarder
	1	2	3	4	5	25	25
Basic Sequence	As Shown						
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703 of Missouri Standard Specifications.							
Alternate "A" pours	1	5 + 2		4 + 3		65	---
	End to 5		1 to 4				
Alternate "B" pours	1 + 5 + 2			4 + 3		65	---
	End to 4			2 to End			
Alternate "C" pours	1 + 5 + 2 + 4 + 3					65	---
	End to End						
Unit 3	Sequence of Pours					Min. rate of pour cu. yds./hr.	
	Direction					With Retarder	No Retarder
	1	2	3			25	25
Basic Sequence	As Shown						
Alternate pours to the basic skip sequence are subject to the approval of the engineer in accordance with Sec 703 of Missouri Standard Specifications.							
Alternate "A" pours	1	3 + 2				65	---
	End to 3		1 to End				
Alternate "B" pours	1 + 3 + 2					65	---
	End to End						

Note:
The Contractor shall pour and satisfactorily finish the slab pours at the rate given. Retarder, if used, shall be an approved type and retard the set of concrete to 2.5 hours.

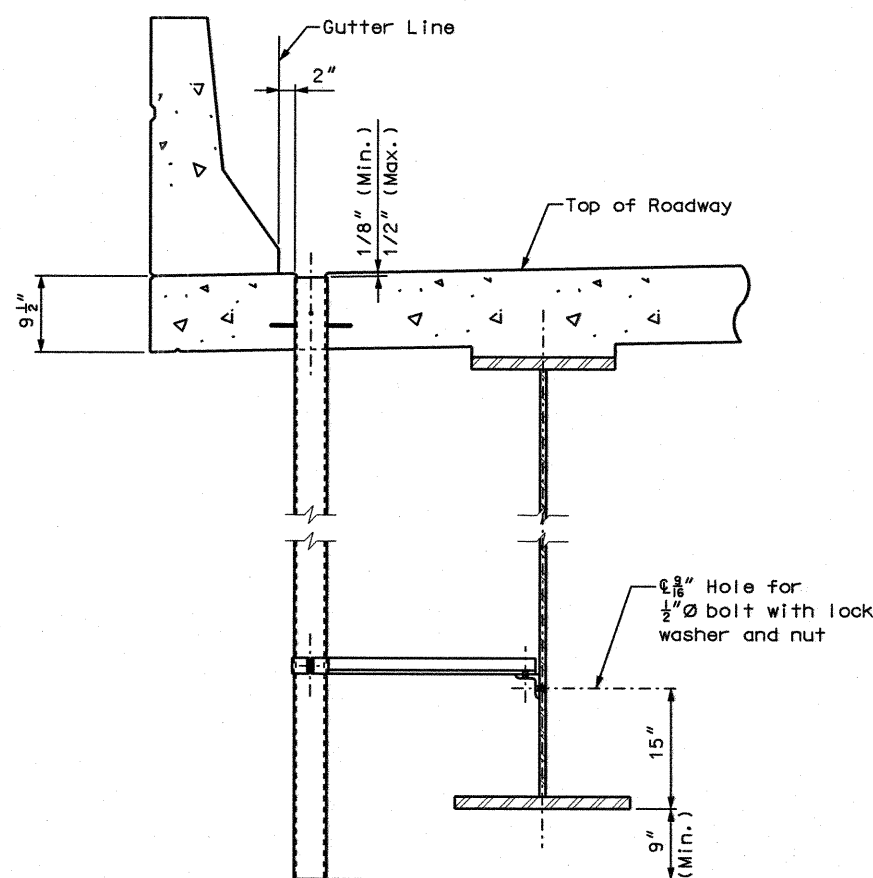


STATE	PROJ. NO.	SHEET NO.
MO		B63

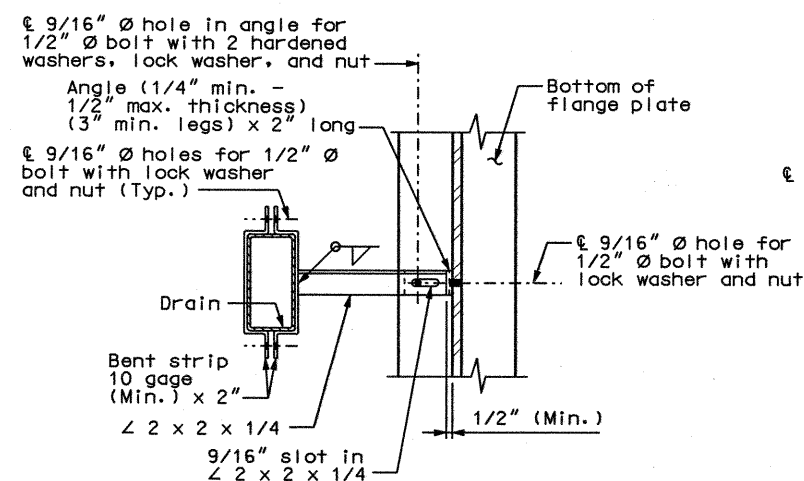


PART PLAN SHOWING LOCATIONS OF SLAB DRAINS

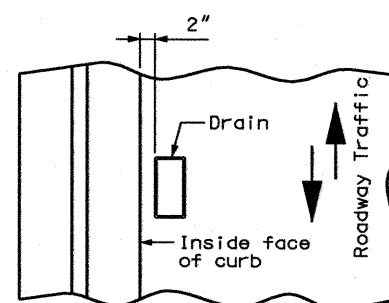
Note: Drain spacings are measured along inside face of curb.



PART SECTION OF SLAB AT DRAIN

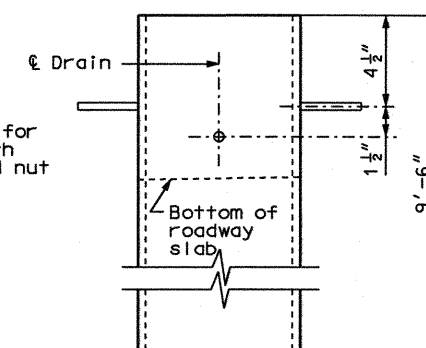


PART SECTION SHOWING BRACKET ASSEMBLY

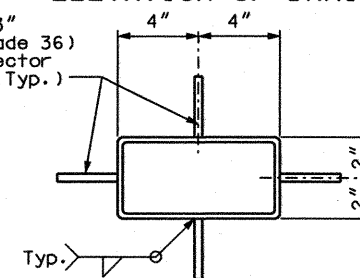


PART PLAN OF SLAB AT DRAIN

DETAILS OF DRAINS PARALLEL TO ROADWAY SLAB DRAIN DETAILS



ELEVATION OF DRAIN



PLAN OF DRAIN

Notes:

Slab drains may be fabricated of either 1/4" welded sheets of ASTM A709 Grade 36 steel or from 1/4" structural steel tubing ASTM A500 or A501.

Slab drain bracket assembly shall be ASTM A709 Grade 36 steel.

Outside dimensions of drains are 8" x 4".

Locate drains in slab by dimensions shown in Part Section of Slab at Drain.

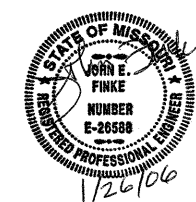
Shift reinforcing steel in field where necessary to clear drains.

The drains and bracket assembly shall be galvanized in accordance with ASTM A123.

All bolts, hardened washers, lock washers and nuts shall be galvanized in accordance with ASTM A153.

Shop drawings will not be required for the slab drains and the bracket assembly.

The bolt hole for the bracket assembly attachment shall be located on the plate girder shop drawings.



DETAILED: BJE OCT. 2005
CHECKED: GJD NOV. 2005

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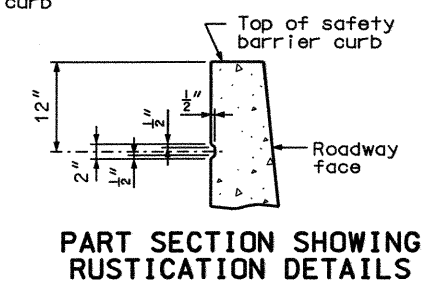
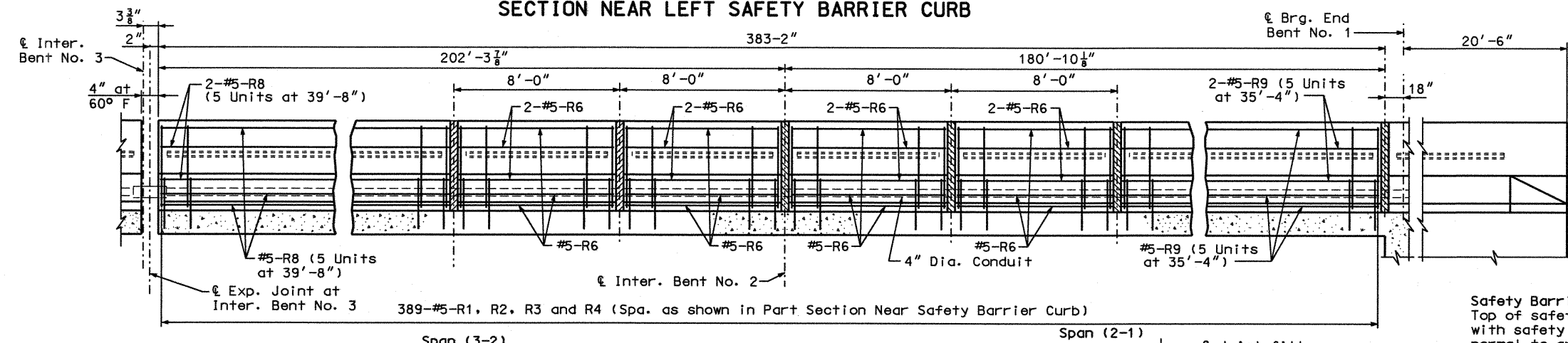
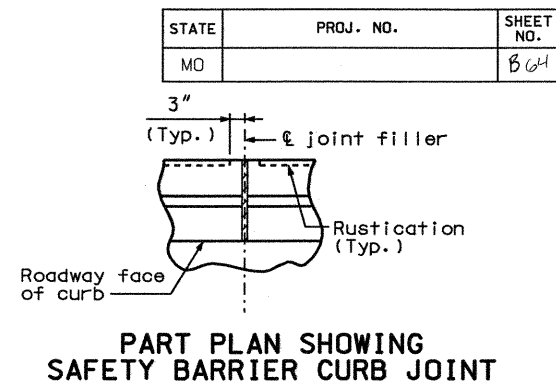
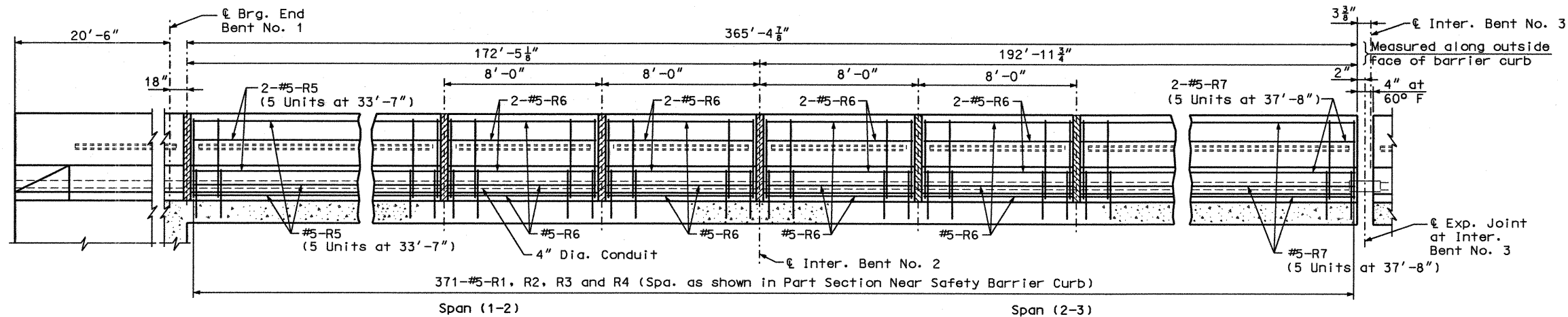
SHEET NO. 63 OF 77

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GREENE COUNTY

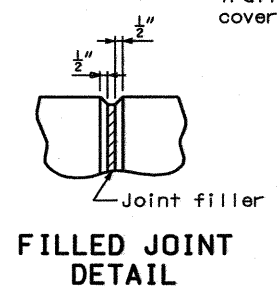
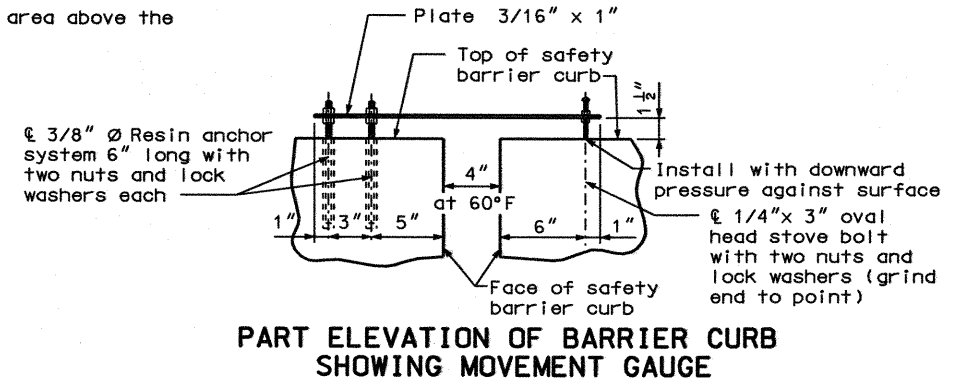
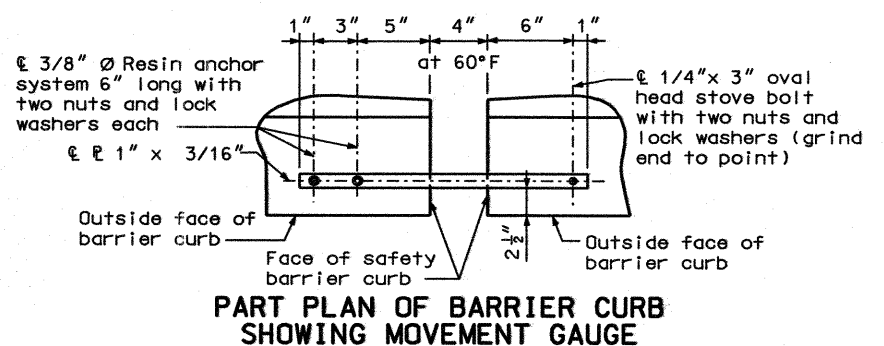
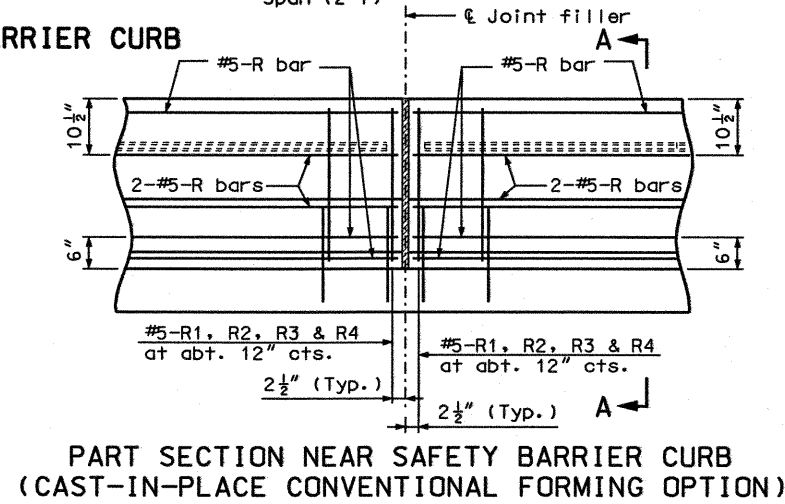
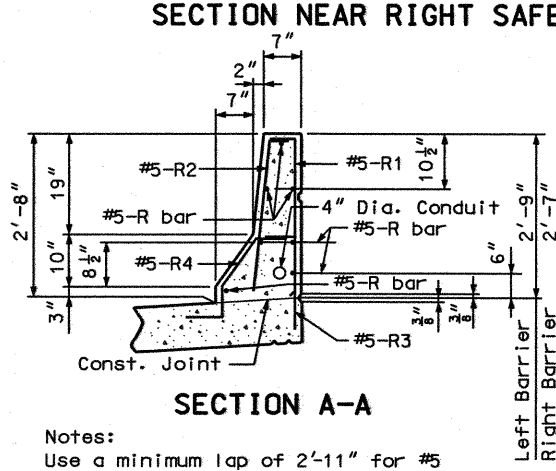
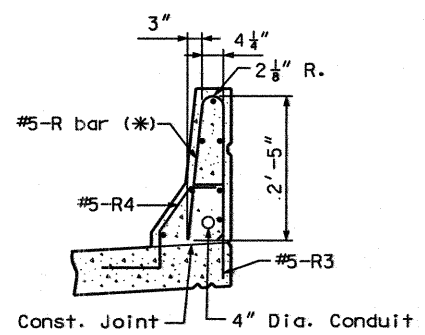
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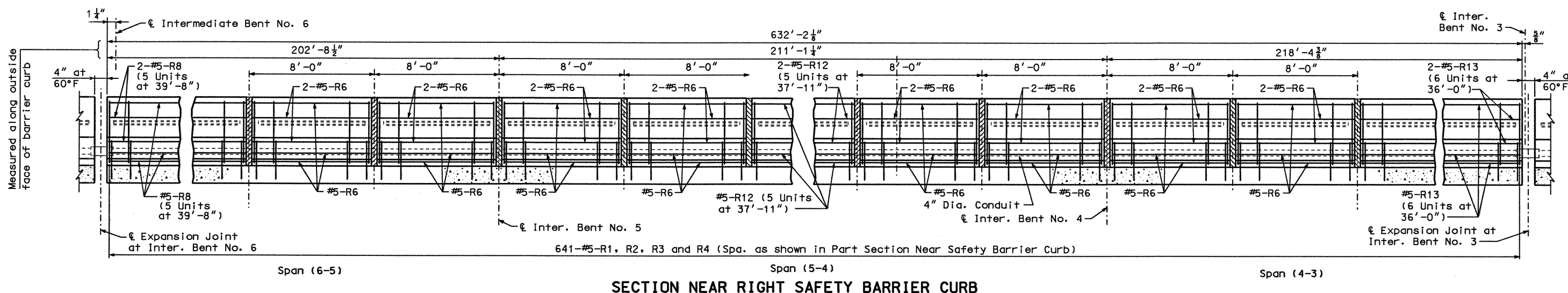
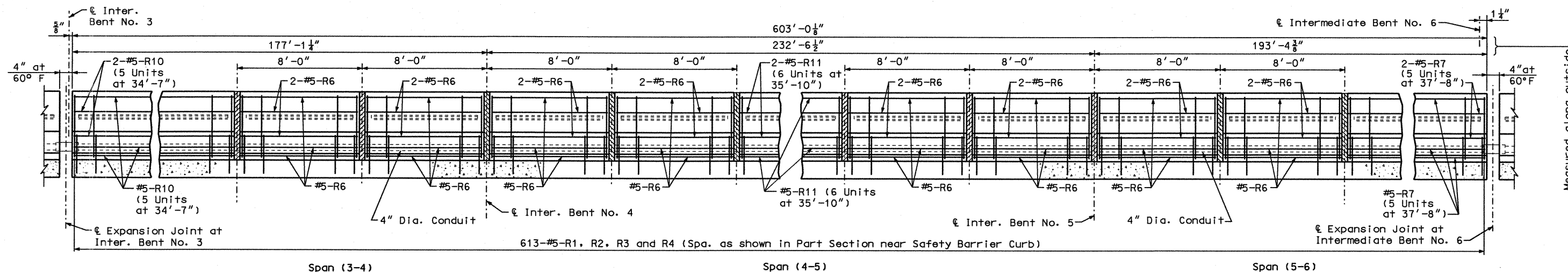
Safety Barrier Notes:
 Top of safety barrier curb shall be built parallel to grade with safety barrier curb joints (except at end bents) normal to grade.
 All exposed edges of safety barrier curb shall have either a 1/2" radius or a 3/8" bevel, unless otherwise noted.
 Payment for all concrete and reinforcement, complete-in-place, will be considered completely covered by the contract unit price for safety barrier curb per linear foot.
 Concrete in the safety barrier curb shall be Class B-1.
 Measurement of safety barrier curb is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.

Movement Gauge Notes:
 A movement gauge shall be provided on one side of bridge at all safety barrier curb expansion joints.
 All steel shall be galvanized.
 Cost of movement gauge complete-in-place will be considered completely covered by the contract unit price for Safety Barrier Curb.
 Concrete traffic barrier delineators shall be placed on top of the safety barrier curb as shown on Missouri Standard Plans 617.10 and in accordance with Sec 617. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for "Safety Barrier Curb".



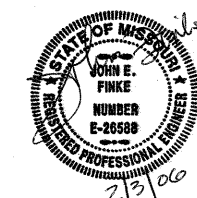
SAFETY BARRIER CURBS - UNIT 1

STATE	PROJ. NO.	SHEET NO.
MO		B65



Notes:

- For Safety Barrier Notes and Movement Gage Notes, see Sheet No. 64.
- For Part Section Near Safety Barrier Curb, see Sheet No. 64.
- For Filled Joint Detail, see Sheet No. 64.
- For Rustication Detail, see Sheet No. 64.
- For Movement Gage Detail, see Sheet No. 64.
- For Safety Barrier Sections and Details, see Sheet No. 64.



SAFETY BARRIER CURBS - UNIT 2

DETAILED: GJD JULY 2005
CHECKED: FAC JAN. 2006

JACOBS CIVIL INC.
ST. LOUIS, MO.

SHEET NO. 65 OF 77

GREENE COUNTY

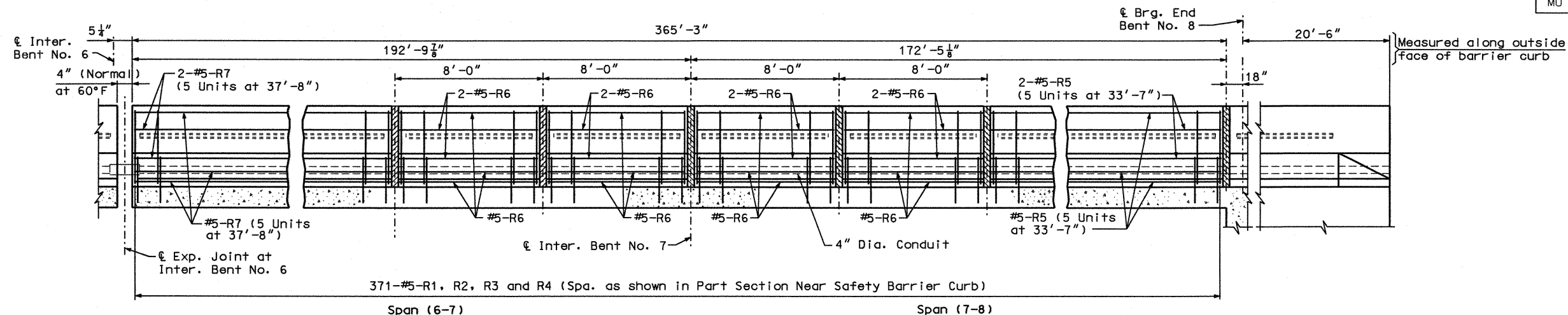
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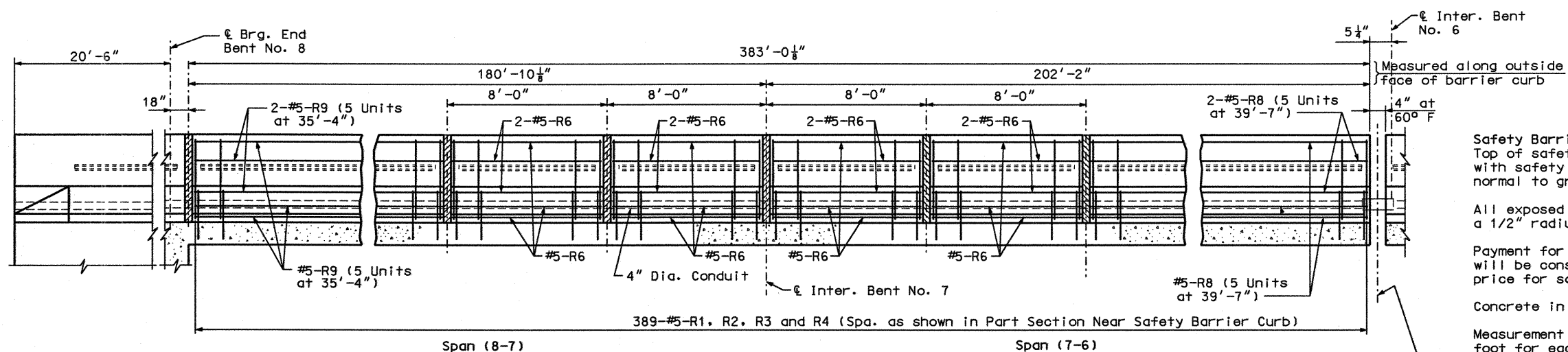
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STATE	PROJ. NO.	SHEET NO.
MO		B66



SECTION NEAR LEFT SAFETY BARRIER CURB



SECTION NEAR RIGHT SAFETY BARRIER CURB

Safety Barrier Notes:
Top of safety barrier curb shall be built parallel to grade with safety barrier curb joints (except at end bents) normal to grade.

All exposed edges of safety barrier curb shall have either a 1/2" radius or a 3/8" bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete-in-place, will be considered completely covered by the contract unit price for safety barrier curb per linear foot.

Concrete in the safety barrier curb shall be Class B-1.

Measurement of safety barrier curb is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.

Movement Gauge Notes:
A movement gauge shall be provided on one side of bridge at all safety barrier curb expansion joints.

All steel shall be galvanized.

Cost of movement gauge complete-in-place will be considered completely covered by the contract unit price for Safety Barrier Curb.

Concrete traffic barrier delineators shall be placed on top of the safety barrier curb as shown on Missouri Standard Plans 617.10 and in accordance with Sec 617. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for "Safety Barrier Curb".

Notes:

For Safety Barrier Notes and Movement Gauge Notes, see Sheet No. 64.

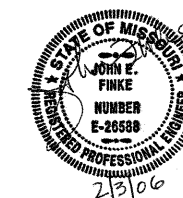
For Part Section Near Safety Barrier Curb, see Sheet No. 64.

For Filled Joint Detail, see Sheet No. 64.

For Rustication Detail, see Sheet No. 64.

For Movement Gauge Detail, see Sheet No. 64.

For Safety Barrier Sections and Details, see Sheet No. 64.



DETAILED: GJD JULY 2005
CHECKED: FAC JAN. 2006

JACOBS CIVIL INC.
ST. LOUIS, MO.

SAFETY BARRIER CURBS - UNIT 3

SHEET NO. 66 OF 77

GREENE COUNTY

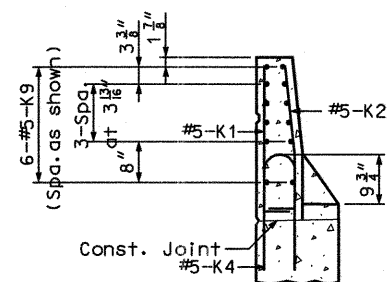
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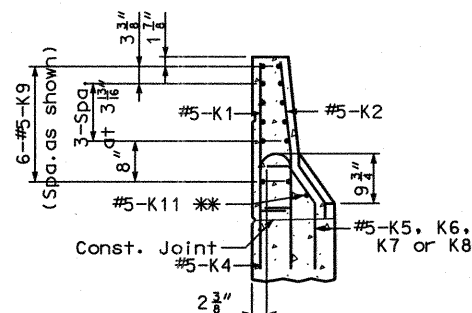
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REV.

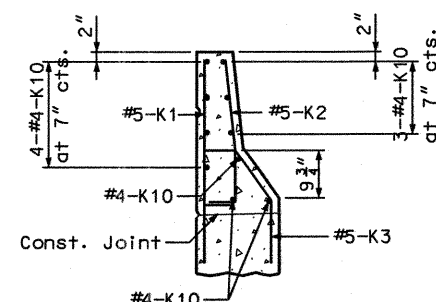
STATE	PROJ. NO.	SHEET NO.
MO		B67



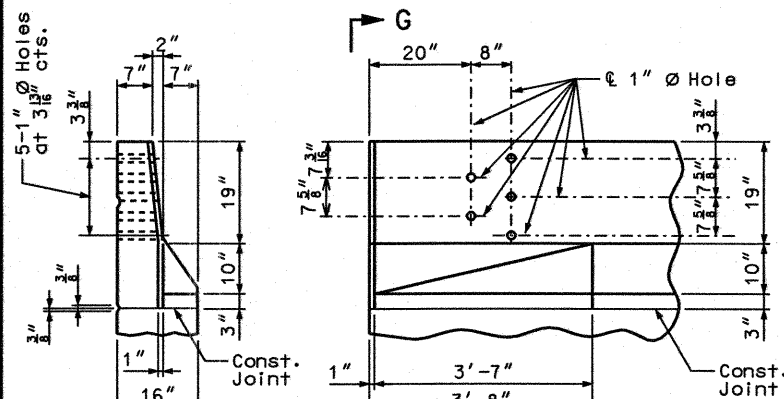
SECTION A-A



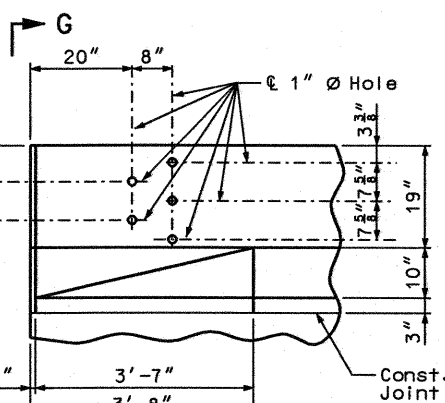
SECTION B-B



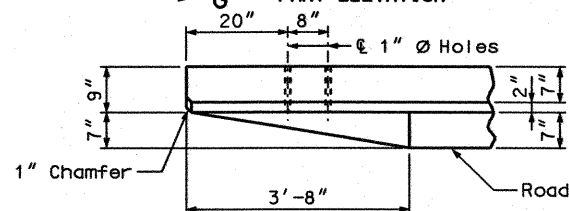
SECTION C-C



PART ELEVATION G-G

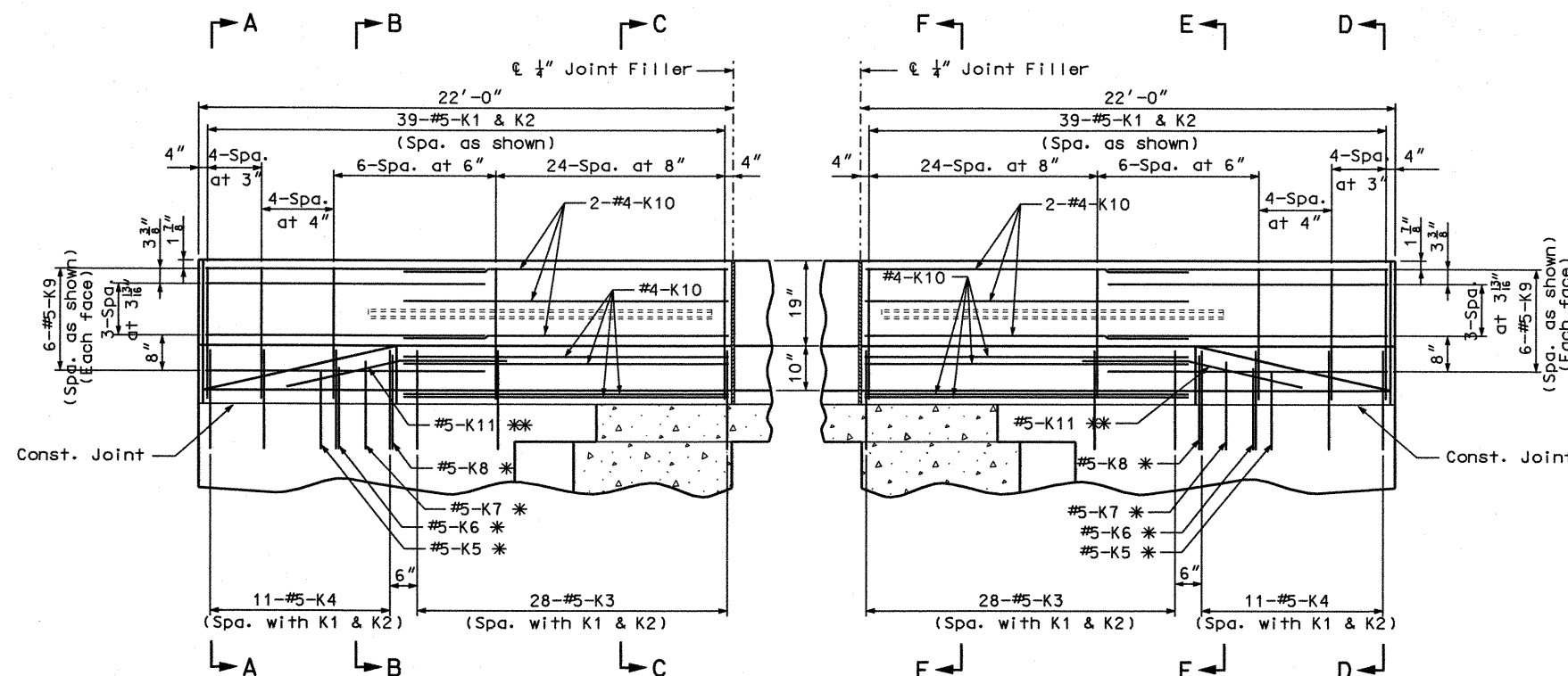


PART ELEVATION



PART PLAN

DETAILS OF GUARD RAIL ATTACHMENT

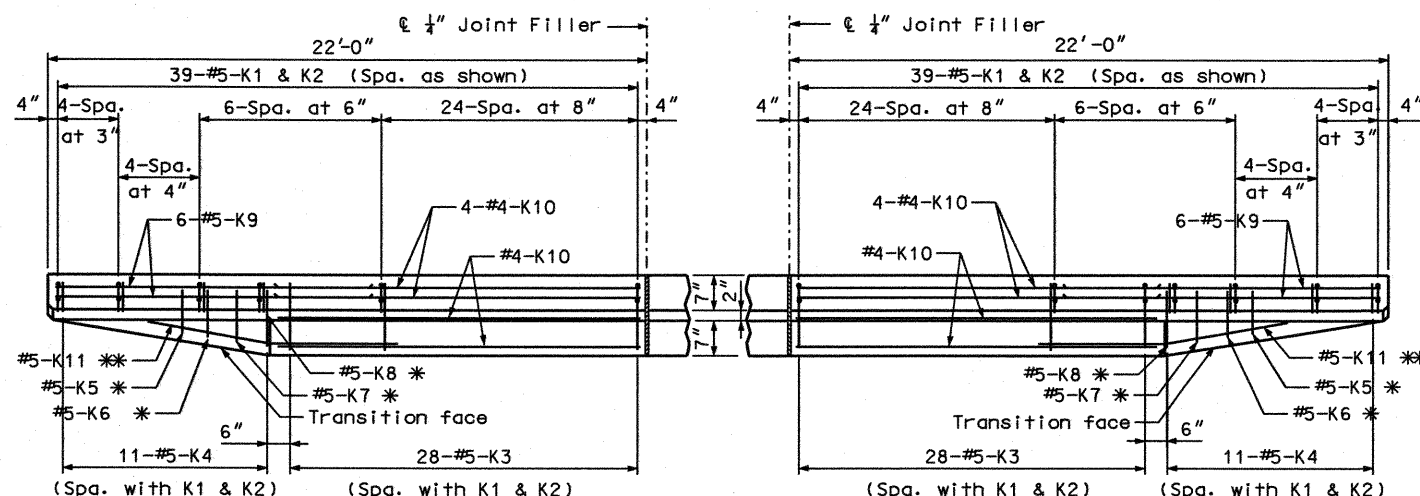


PART ELEVATION

* Spaced with #5-K4 bars.

** Fit bar to follow transition face of curb.

PART ELEVATION



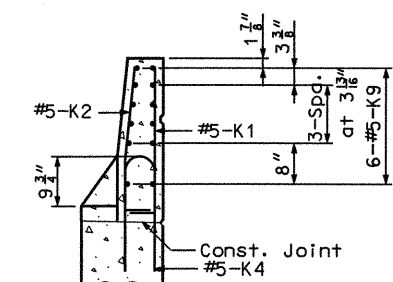
PART PLAN

PART PLAN

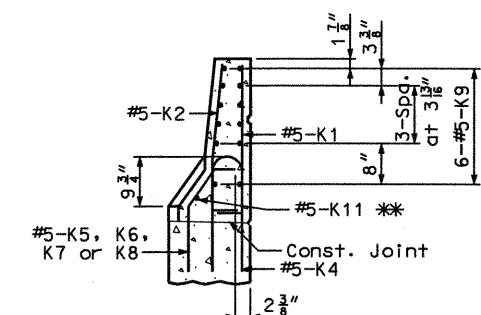
NOTE: Use a minimum lap of 2'-0" between K9 and K10 bars.

DETAILS OF SAFETY BARRIER CURB AT END BENTS

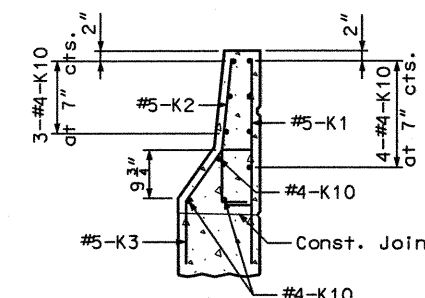
(Left barrier curb shown, right barrier curb similar)



SECTION D-D



SECTION E-E

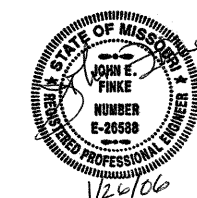


SECTION F-F

Notes:

Work this Sheet with Sheet Nos. 64, 66 and 68.

(*) At the contractors option, #5 R bars shall be field or shop bent to permit placement near curved portion of safety barrier curb



DETAILED: GJD JULY 2005
CHECKED: FAC NOV. 2005

JACOBS CIVIL INC.
ST. LOUIS, MO.

SHEET NO. 67 OF 77

GREENE COUNTY

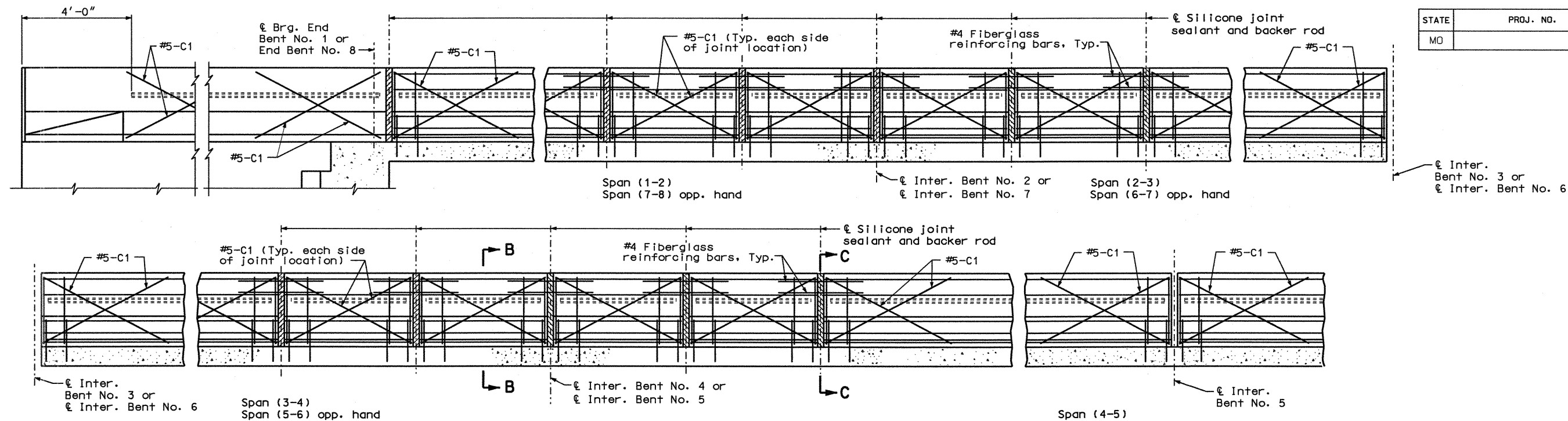
A7024

P:\CIX21400\700cadd\709str\A7024 Ramp 3\A7024_BAR05_J8U0548B.dgn

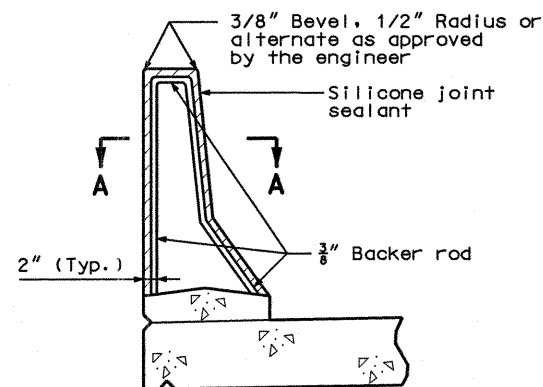
17:52 26-JAN-2006

REV.

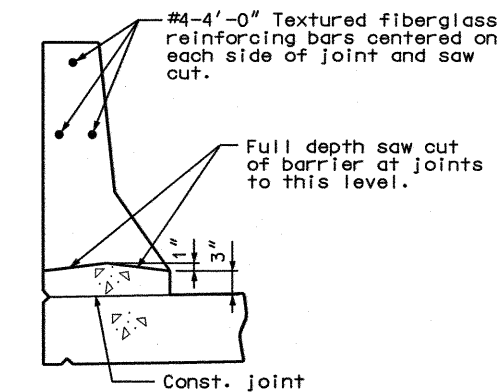
STATE	PROJ. NO.	SHEET NO.
MO		68



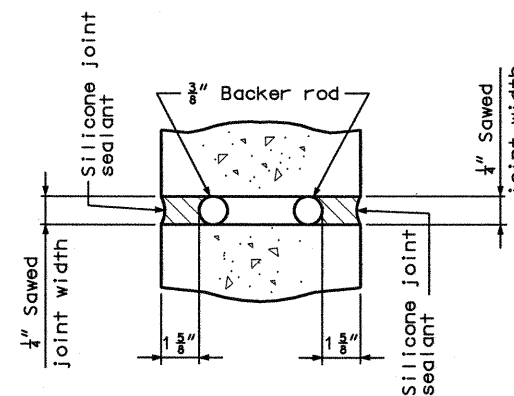
**TYPICAL SECTION NEAR LEFT SAFETY BARRIER CURB AT SUPPORT LOCATIONS
(OPTIONAL SLIP-FORM BRIDGE SAFETY BARRIER CURB)**



SECTION THRU JOINT



PART SECTION C-C



SECTION A-A

Notes:

Joint sealant and backer rods shall be used on all slip-form barrier curbs instead of joint filler and shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed joints.

Plastic waterstop shall not be used with slip-form option.

C Bars (Slip-form option only) shall be used in addition to cast-in-place conventional forming reinforcement for bridge safety barrier curb.

For Slip-Form option, all sides of the safety barrier curb shall have a vertically broomed finish and the curb top shall have a transversely broomed finish.

Cost of silicone joint sealant and backer rod complete-in-place will be considered completely covered by the contract unit price for safety barrier curb.

Notes:

Top of safety barrier curb shall be built parallel to grade with barrier curb joints (except at end bents) normal to grade.

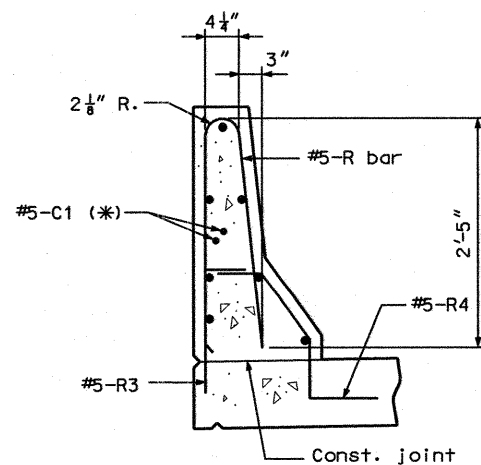
Payment for all concrete and reinforcement, complete-in-place, will be considered completely covered by the contract unit price for safety barrier curb per linear foot.

Concrete in the safety barrier curb shall be Class B-1.

Measurement of safety barrier curb is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.

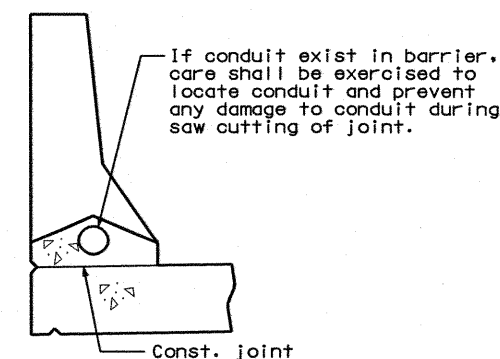
The curb shall be cured by application of Type 1-D or Type 2 Liquid Membrane-Forming Compound in accordance with Sec 1055. Scale prevention treatment will not be permitted.

Concrete traffic barrier delineators shall be placed on top of safety barrier curb as shown on Missouri Standard Plans 617.10 and in accordance with Sec 617. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for "Safety Barrier Curb".

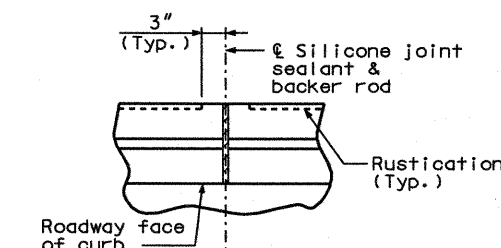


PART SECTION B-B

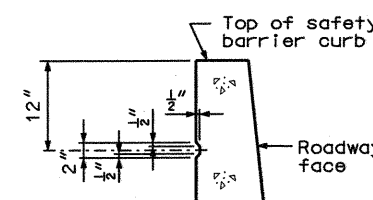
Note:
(*) Each side of joint location.



**PART SECTION C-C
(Use when conduit required)**



**PART PLAN SHOWING
SAFETY BARRIER CURB JOINT**



**PART SECTION SHOWING
RUSTICATION DETAILS**

RUSTICATION DETAIL

OPTIONAL SLIP-FORM BRIDGE SAFETY BARRIER CURB
(Left barrier curb shown, right barrier curb similar.)

DETAILED: GJD JULY 2005
CHECKED: FAC NOV. 2005

JACOBS CIVIL INC.
ST. LOUIS, MO.

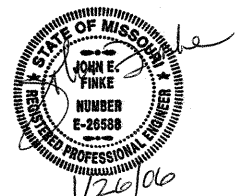
SHEET NO. 68 OF 77

P:\c1x21400\700cadd\709str\A7024 Ramp 3\A7024_BAR04_J8U0548B.dgn

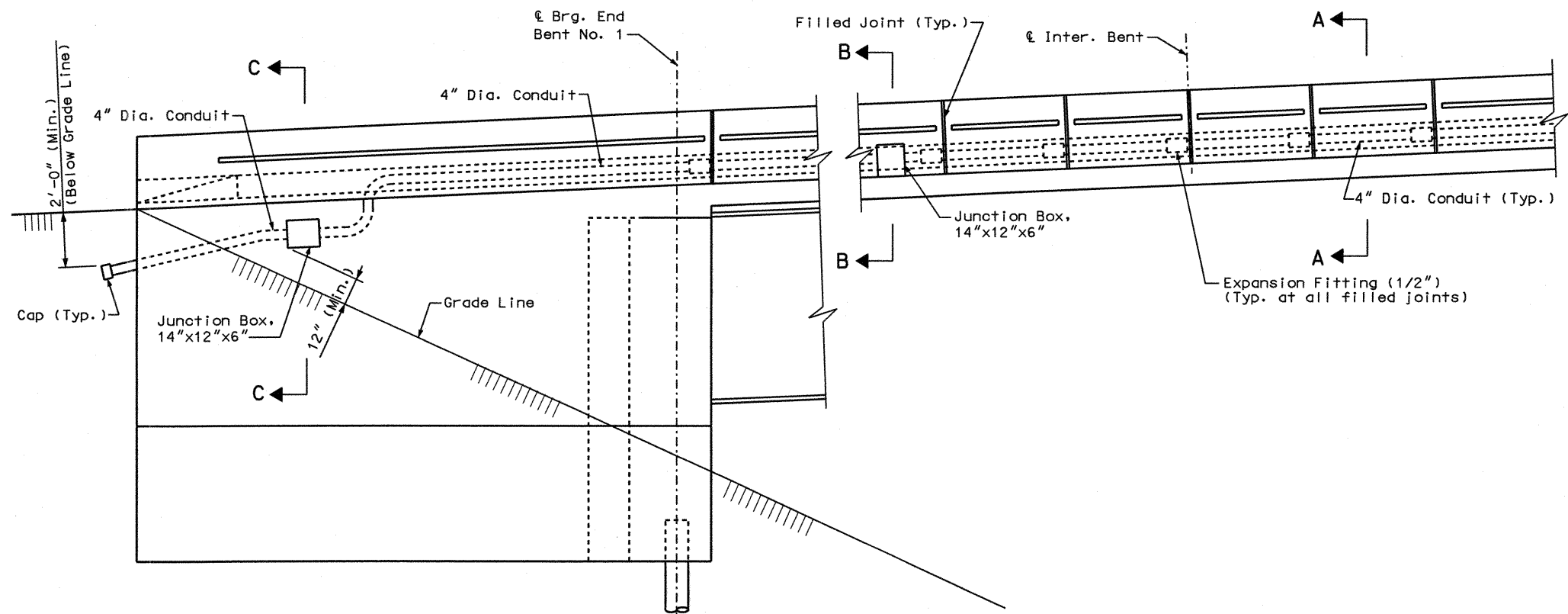
GREENE COUNTY

A7024

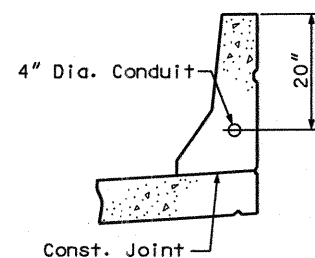
13:40 25-JAN-2006



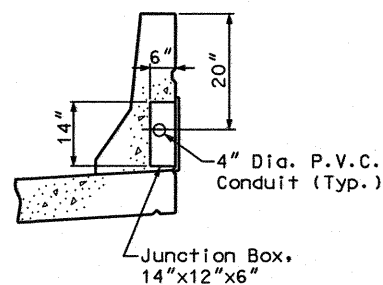
STATE	PROJ. NO.	SHEET NO.
MO		B69



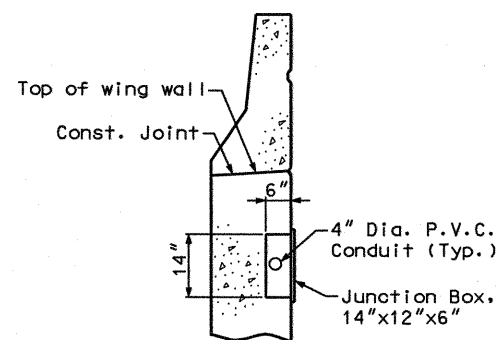
**PART ELEVATION OF RIGHT BARRIER CURB
SHOWING LOCATION OF CONDUIT**
(End Bent No. 1 shown. End Bent No. 8 similar)
(Right Barrier Curb shown. Left Barrier Curb similar)



PART SECTION A-A



PART SECTION B-B



PART SECTION C-C

Conduit System Notes:

All conduit shall be rigid non-metallic schedule 40 heavy wall PVC (polyvinyl chloride plastic) with 3" minimum cover in concrete (except when conduit is in the slab). Each section of conduit shall bear the Underwriters Laboratories, Inc., (UL) label.

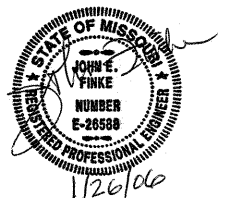
Shift reinforcing steel in field where necessary to clear conduit and junction boxes.

Expansion fittings shall provide a minimum movement in either direction of $1\frac{3}{4}$ " at open joints. Expansion Fittings shall be equal to Carlon Electrical Construction Products or Context, Inc.

All Safety Barrier Curb junction boxes shall be PVC molded flush surface mounted and equal to Carlon Electrical Construction Products or Context, Inc. The conduit terminations shall be permanent or separable. The terminations and covers shall be of watertight construction and shall meet requirements for NEMA 4 enclosure.

Weepholes shall be provided at appropriate locations to drain any moisture in conduit system.

Payment for furnishing and installing Conduit System, complete-in-place, will be paid for at the contract unit price for Conduit System on Structure, lump sum.



DETAILS OF CONDUIT SYSTEM

DETAILED: SEM NOV. 2005
CHECKED: JEF JAN. 2006

JACOBS CIVIL INC.
ST. LOUIS, MO.

SHEET NO. 69 OF 77

GREENE COUNTY

A7024

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REV.

STATE	PROJ. NO.	SHEET NO.
MO		370

GENERAL NOTES:

All concrete for the bridge approach slab and sleeper slab shall be in accordance with Sec 503 (f'c = 4,000 psi).

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler, except as noted.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be epoxy coated Grade 60 with $F_y = 60,000$ psi.

Minimum clearance to reinforcing steel shall be $1\frac{1}{2}"$, unless otherwise shown.

The reinforcing steel in the bridge approach slab and the sleeper slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the #4 & #6 bars 18" and 2'-2" respectively.

Mechanical bar splices will be in accordance with Sec 706

(*) Seal joint between vertical face of approach slab and wing with Silicone Joint Sealant for Saw Cut and Formed Joints in accordance with Sec 717.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

The contractor shall pour and satisfactorily finish the bridge or semi-deep slab before pouring the bridge approach slabs.

Longitudinal construction joints in approach slab and sleeper slab shall be aligned with longitudinal construction joints in bridge or semi-deep slab.

Payment for furnishing all materials, labor and excavation necessary to construct the approach slab, including the timber header, sleeper slab, underdrain, Type 5 aggregate base, joint filler and all other appurtenances and incidental work as shown on this sheet, complete in place, will be considered completely covered by the contract unit price for Bridge Approach Slab (Bridge), per square yard.

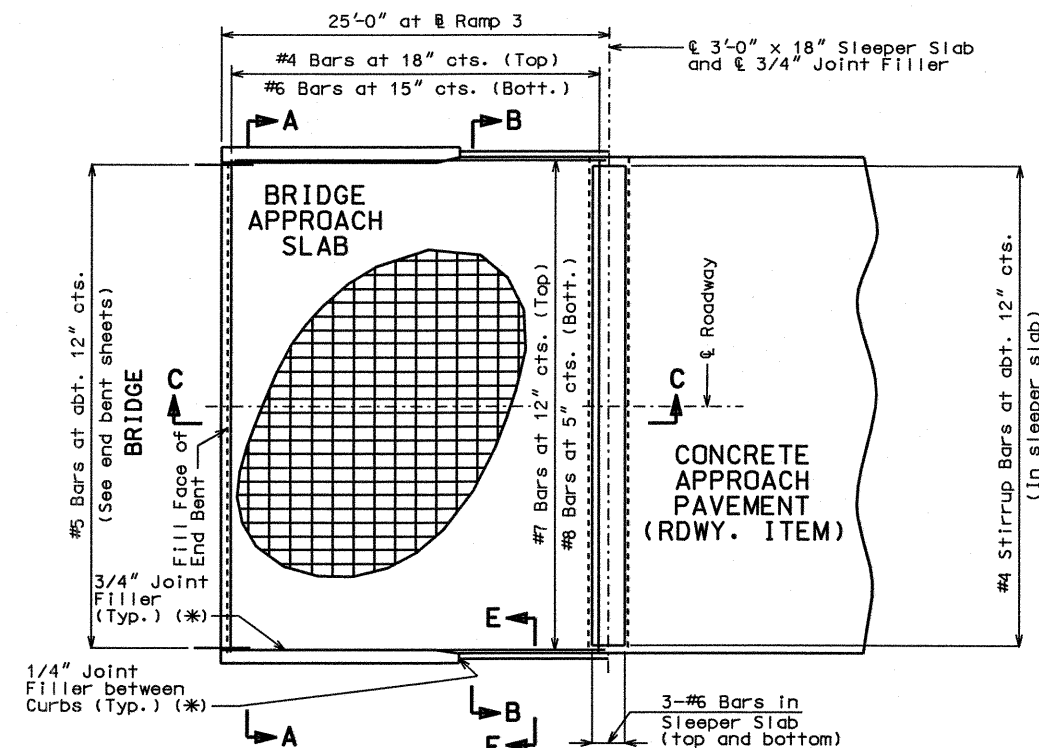
For Concrete Approach Pavement details, see roadway plans.

See Missouri Standard Plans Drawing 609.00 for details of Type A Curb.

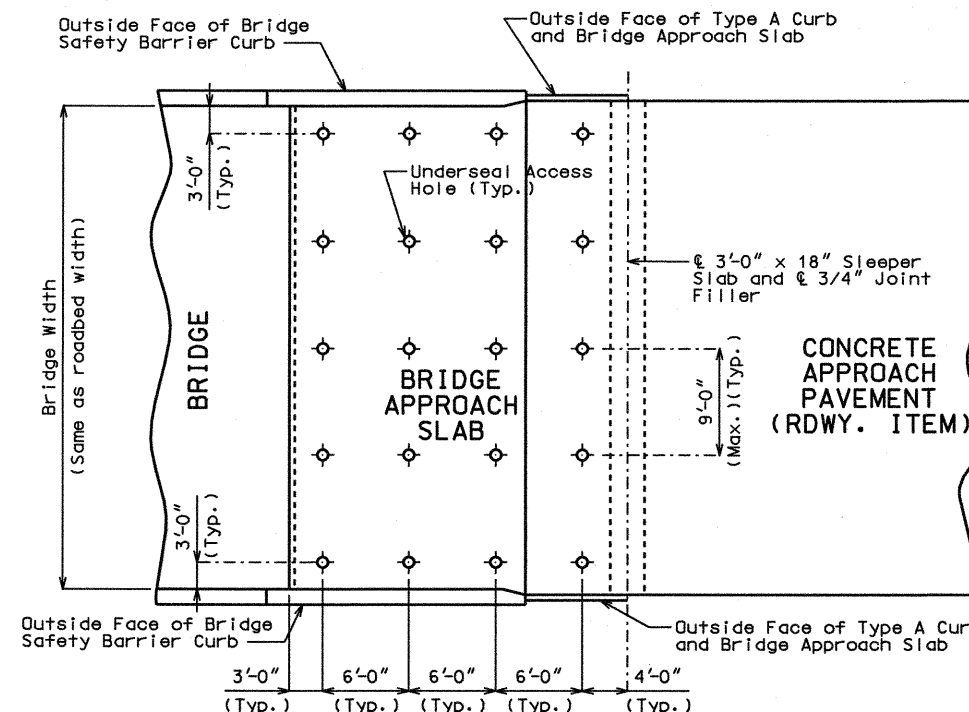
At the contractor's option, Grade 40 reinforcement may be substituted for the Grade 60 #5 dowel bars connecting the bridge approach slab to the bridge end bent. No additional payment will be made for this substitution.

When Grade 40 reinforcement is substituted for the Grade 60 #5 dowel bars connecting the bridge approach slab to the bridge end bent, the reinforcement may be bent up to 90 degrees with a 2" minimum radius near the end bent to allow compaction of the backfill material near the end bent. Damage to epoxy coating shall be repaired in accordance with Sec 710.

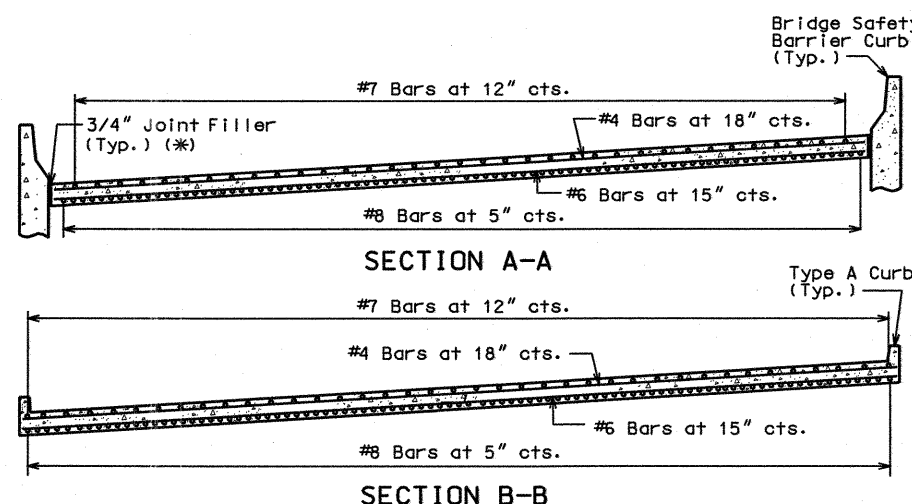
Drain pipe may be either 6" diameter corrugated metallic-coated pipe underdrain, 4" diameter corrugated polyvinyl chloride (PVC) drain pipe, or 4" diameter corrugated polyethylene (PE) drain pipe.



PART PLAN SHOWING REINFORCEMENT

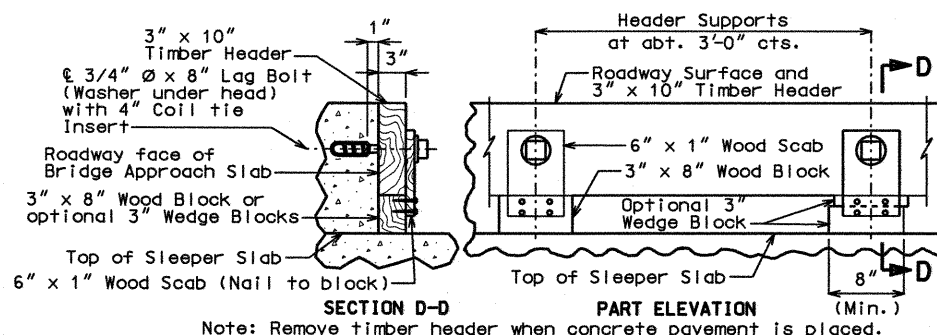


PART PLAN (SHOWING TYPICAL UNDERSEAL ACCESS HOLE LOCATIONS)



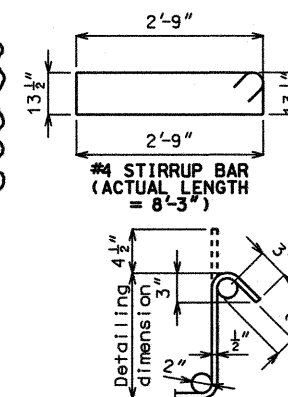
SECTION A-A

SECTION B-B

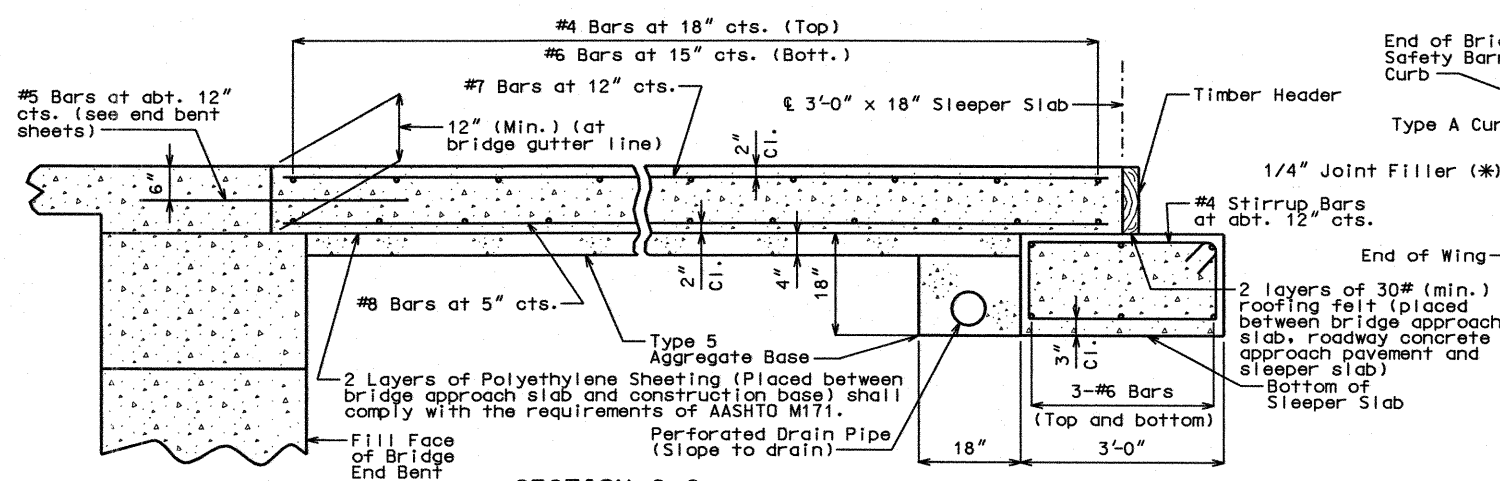


Note: Remove timber header when concrete pavement is placed.

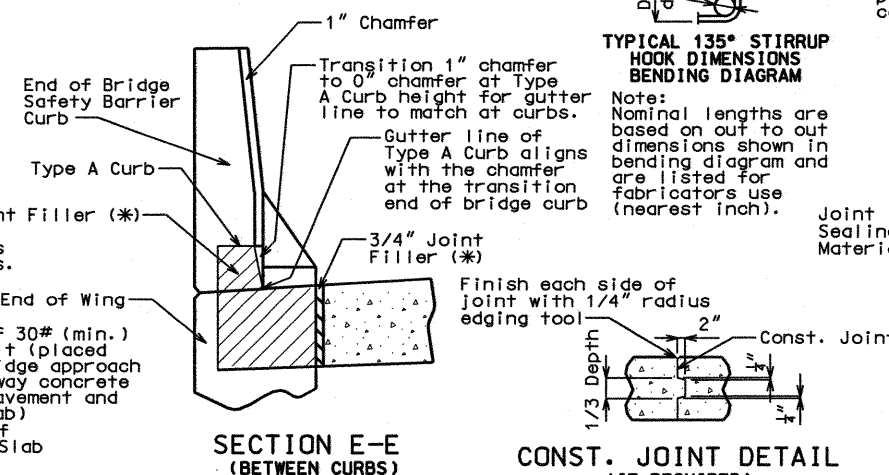
DETAILS OF TIMBER HEADER



TYPICAL 135° STIRRUP HOOK DIMENSIONS BENDING DIAGRAM

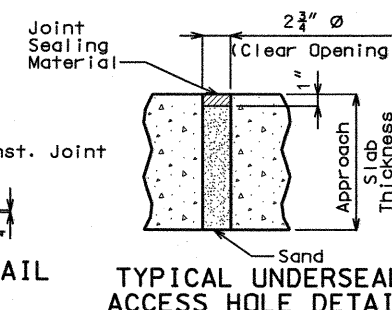


SECTION C-C



SECTION E-E (BETWEEN CURBS)

CONST. JOINT DETAIL (IF REQUIRED)



TYPICAL UNDERSEAL ACCESS HOLE DETAIL

BRIDGE APPROACH SLAB

DETAILED: GJD JULY 2005
CHECKED: DDB JAN. 2006

JACOBS CIVIL INC.
ST. LOUIS, MO.

SHEET NO. 70 OF 77

GREENE COUNTY

A7024

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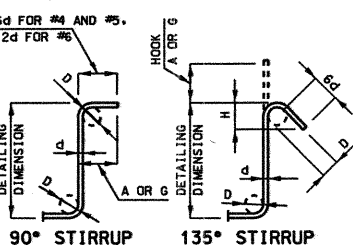
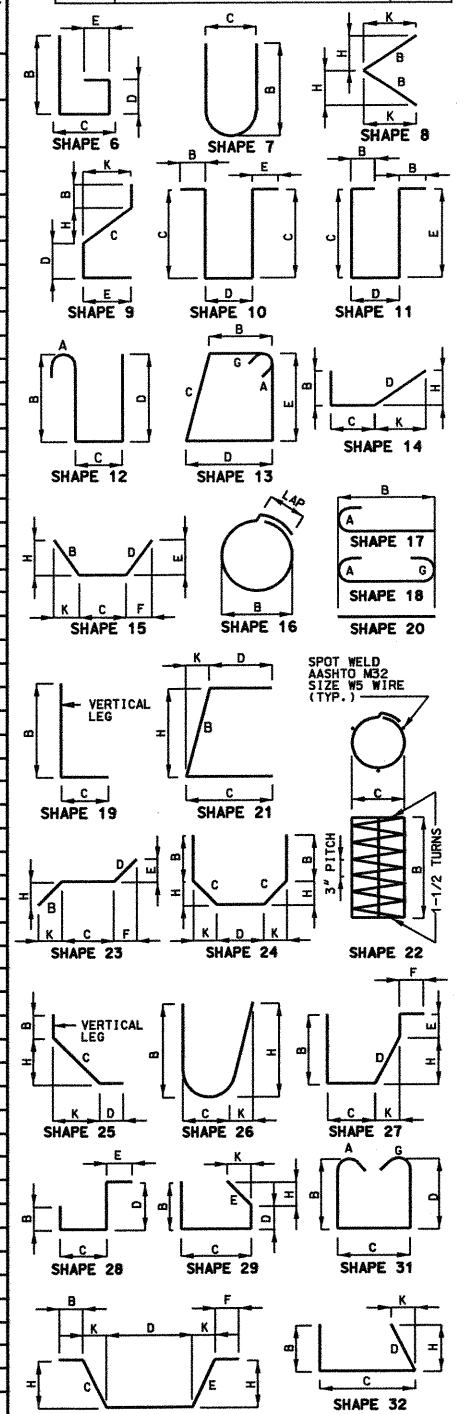
BILL OF REINFORCING STEEL

NO.	REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS							NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT	
										B	C	D	E	F	H	K				
										FT.	IN.	FT.	IN.	FT.	IN.	FT.				IN.
SUBSTRUCTURE																				
END BENT NO. 1																				
16	6	F101	DIAPHRAGM		19	S				5- 5.500	3- 0.000							8- 6	8- 4	200
36	6	F102	WING BRACE		23					1- 2.000	4- 3.000	1- 2.000	0- 9.875	0- 9.875	0- 9.875	0- 9.875		6- 7	6- 6	351
8	11	H101	BEAM		20					40- 5.000								40- 5	40- 5	1718
4	6	H102	BEAM		20					40- 5.000								40- 5	40- 5	243
4	7	H103	BEAM		19					1- 2.000	26- 8.000							27-10	27- 8	226
4	7	H104	BEAM		19					1- 2.000	15-10.000							17- 0	16-10	138
4	7	H105	BEAM		19					1- 2.000	5- 0.000							6- 2	6- 0	49
22	6	H106	DIAPHRAGM		20					40- 6.000								40- 6	40- 6	1338
36	5	H107	DIAPHRAGM	E	20					2- 6.000								2- 6	2- 6	94
4	6	H108	DIAPHRAGM	E	20					40- 6.000								40- 6	40- 6	243
68	6	H109	WINGWALL		20					20- 1.500								20- 2	20- 2	2060
4	8	H110	WINGWALL	E	20					21- 3.000								21- 3	21- 3	227
12	8	H111	WINGWALL		20					21- 3.000								21- 3	21- 3	681
13	5	U101	BEAM		10	S				5- 7.750	3- 0.000							14- 4	14- 1	191
7	5	U102	BEAM		10	S				6-11.125	3- 0.000							16-10	16- 8	122
4	5	U103	BEAM		13	S				3- 0.000	3- 3.000	3- 0.000	3- 3.000					13- 5	13- 1	55
5	5	U104	BEAM		13	S				3- 0.000	3-10.750	3- 0.000	3-10.750					14- 9	14- 5	75
4	5	U105	BEAM		13	S				3- 0.000	4- 6.500	3- 0.000	4- 6.500					16- 0	15- 8	65
5	5	U106	BEAM		13	S				3- 0.000	5- 2.125	3- 0.000	5- 2.125					17- 3	16-11	88
30	5	U107	DIAPHRAGM	E	10	S				8- 5.125	4- 4.500							21- 3	21- 0	657
30	5	U108	DIAPHRAGM		19	S				7- 4.000	3- 0.000							10- 4	10- 3	321
51	6	U109	DIAPHRAGM	E	19	S				3- 3.000	4-10.500							8- 2	8- 0	613
12	5	V101	DIAPHRAGM		20					5-10.750								5-11	5-11	74
8	5	V102	DIAPHRAGM		20					7- 2.125								7- 2	7- 2	60
14	6	V103	DIAPHRAGM	E	20					7- 4.000								7- 4	7- 4	154
40	6	V104	WINGWALL		20		V	2		13-10.000								13-10	13-10	809
			INCR.=							13- 1.000								13- 1	13- 1	
			.5 in																	
40	6	V105	WINGWALL		20		V	2		11- 4.000								11- 4	11- 4	658
			INCR.=							10- 7.000								10- 7	10- 7	
			.5 in																	

BILL OF REINFORCING STEEL

NO.	REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS							NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
										B	C	D	E	F	H	K			
										FT.	IN.	FT.	IN.	FT.	IN.	FT.			
INTERMEDIATE BENT NO. 2																			
36	10	D201	FOOTING		10	X					2- 0.000	19- 5.000					23- 5	22- 9	3524
40	11	D202	FOOTING		10	X					2- 0.000	17- 5.000					21- 5	20- 8	4392
72	5	D203	FOOTING		19	X				4-10.000	11- 3.000						16- 1	15-11	1195
80	5	D204	FOOTING		19	X				4-10.000	10- 3.000						15- 1	14-11	1245
8	5	D205	FOOTING		10	X					2- 6.000	17- 6.000					22- 6	22- 3	186
8	5	D206	FOOTING		10	X					2- 6.000	19- 6.000					24- 6	24- 3	202
70	11	D207	FOOTING		19	X				13- 5.000	2- 0.000						15- 5	15- 1	5610
24	4	H201	COLUMN		13	X				8- 9.000	4- 0.000	8- 9.000	4- 0.000				26- 3	25-11	415
48	4	H202	COLUMN		31	X				4- 0.000	0- 4.000						4- 9	4- 7	147
24	4	H203	COLUMN		31	X				3- 6.000							3-11	3-11	63
8	8	H204	BENT CAP		15	X				2- 0.000	14- 3.000				1- 9.875	0-10.000	16- 3	16- 2	345
6	7	H205	BENT CAP		20	X	V	2		17- 8.000							17- 8	17- 8	270
			INCR.=							26- 4.000							26- 4	26- 4	
			52. in																
12	8	H206	BENT CAP		20	X	V	3		30- 8.000							30- 8	30- 8	1052
			INCR.=							35- 0.000							35- 0	35- 0	
			17.375 in																
12	8	H207	BENT CAP		20	X				36- 5.000							36- 5	36- 5	1167
4	7	H208	BENT CAP		20	X				36- 5.000							36- 5	36- 5	298
20	11	H209	BENT CAP		20	X				36- 5.000							36- 5	36- 5	3870
4	7	H210	BENT CAP		19	X				2-10.000	25- 6.000						28- 4	28- 2	230
4	7	H211	BENT CAP		19	X				3- 6.000	15- 6.000						19- 0	18-10	154
4	7	H212	BENT CAP		10	X					3-10.000	4- 1.000					11- 9	11- 5	93
10	6	H213	BENT CAP		10	X				2- 5.000	3- 9.000						8- 7	8- 3	124
36	6	H214	BENT CAP		10	X					2- 5.000	2- 7.000					7- 5	7- 1	383
6	4	H215	BENT CAP		20	X				4- 9.000							4- 9	4- 9	19
56	4	H216	BENT CAP		31	X				4- 0.000	0- 4.000						4- 9	4- 7	171
68	5	P201	SHAFT		16	X				3- 4.000							12-11	12-10	910
64	5	P202	SHAFT		16	X				2-10.000							11- 3	11- 3	751
32	6	U201	BENT CAP		10	S	X				1- 0.000	4- 0.000					6- 0	5- 8	272
0		U202	NOT USED		0														
26	6	U203	BENT CAP		10	S	X				3- 5.000	4- 0.000					10-10	10- 6	410
15	6	U204	BENT CAP		13	S	X			4- 0.000	6- 5.000	4- 0.000	6- 5.000				22- 2	21- 8	488
84	6	U205	BENT CAP		13	S	X	V	4	2-11.000	4- 7.500	2-11.000	4- 7.500				16- 5	15-11	2534
			INCR.=							2-11.000	8- 9.500	2-11.000	8- 9.500				24- 9	24- 3	
			5. in																
2	6	U206	BENT CAP		13	S	X			2-11.000	4- 3.000	2-11.000	4- 3.000				15- 8	15- 2	46
2	6	U207	BENT CAP		13	S	X			2-11.000	6- 1.000	2-11.000	6- 1.000				19- 4	18-10	57
24	6	U208	BENT CAP		10	S	X				3- 2.000	0-10.000					7- 2	6-10	246
70	11	V201	COLUMN		20	X				20- 0.000							20- 0	20- 0	7438
36	9	V202	SHAFT		20	X				24- 1.250							24- 1	24- 1	2948
36	9	V203	SHAFT		20	X				22- 0.000							22- 0	22- 0	2693
64	9	V204	SHAFT		20	X				26- 0.000							26- 0	26- 0	5658
16	W5	W201	BENT CAP		22	X				1- 6.000	0- 9.125						26- 1	26- 1	71

STATE	PROJ. NO.	SHEET NO.
MO		671



STIRRUP HOOK DIMENSIONS				
GRADES 40 - 50 - 60 KSI				
BAR SIZE	D (IN.)	90° HOOK	135° HOOK	APPROX. H
		HOOK A OR G	HOOK A OR G	
#4	2"	4-1/2"	4-1/2"	3"
#5	2-1/2"	6"	5-1/2"	3-3/4"
#6	4-1/2"	12"	8"	4-1/2"

NOTE: UNLESS OTHERWISE NOTED DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS

BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS								NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									B	C	D	E	F	H	K				
									FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.			
SUBSTRUCTURE (CONT.)																			
INTERMEDIATE BENT NO. 3																			
47	10 D301	FOOTING		10	X					2- 0.000	19- 6.000						23- 6	22-10	4618
53	11 D302	FOOTING		10	X					2- 0.000	19- 6.000						23- 6	22- 9	6406
200	5 D303	FOOTING		19	X				4-10.000	11- 3.000							16- 1	15-11	3320
16	5 D304	FOOTING		10	X					1- 9.000	19- 6.000						23- 0	22- 9	380
	0 D305	NOT USED		0															
70	11 D306	FOOTING		19	X				13- 5.000	2- 0.000							15- 5	15- 1	5610
34	4 H301	COLUMN		13	X				8- 9.000	4- 0.000	8- 9.000	4- 0.000					26- 3	25-11	589
68	4 H302	COLUMN		31	X				4- 0.000	0- 4.000							4- 9	4- 7	208
34	4 H303	COLUMN		31	X				3- 6.000								3-11	3-11	89
8	8 H304	BENT CAP		15	X				2- 0.000	14- 3.000				1- 9.875	0-10.000		16- 3	16- 2	345
6	7 H305	BENT CAP		20	X	V	2		17- 8.000								17- 8	17- 8	270
		INCR.=							26- 4.000								26- 4	26- 4	
		52. in																	
12	8 H306	BENT CAP		20	X	V	3		30- 8.000								30- 8	30- 8	1052
		INCR.=							35- 0.000								35- 0	35- 0	
		17.375 in																	
14	8 H307	BENT CAP	E	20	X				36- 5.000								36- 5	36- 5	1361
6	7 H308	BENT CAP	E	20	X				36- 5.000								36- 5	36- 5	447
22	11 H309	BENT CAP	E	20	X				36- 5.000								36- 5	36- 5	4257
4	7 H310	BENT CAP	E	19	X				2-10.000	25- 6.000							28- 4	28- 2	230
4	7 H311	BENT CAP	E	19	X				3- 6.000	15- 6.000							19- 0	18-10	154
4	7 H312	BENT CAP	E	10	X				3-10.000	4- 1.000							11- 9	11- 5	93
10	6 H313	BENT CAP	E	10	X				2- 5.000	3- 9.000							8- 7	8- 3	124
36	6 H314	BENT CAP	E	10	X				2- 5.000	2- 7.000							7- 5	7- 1	383
6	4 H315	BENT CAP	E	20	X				4- 9.000								4- 9	4- 9	19
56	4 H316	BENT CAP	E	31	X				4- 0.000	0- 4.000							4- 9	4- 7	171
92	5 P301	SHAFT		16	X				3-10.000								14- 7	14- 5	1383
60	5 P302	SHAFT		16	X				3- 4.000								12-11	12-10	803
32	6 U301	BENT CAP	E	10	S	X				1- 0.000	4- 0.000						6- 0	5- 8	272
	0 U302	NOT USED		0															
26	6 U303	BENT CAP	E	10	S	X				3- 5.000	4- 0.000						10-10	10- 6	410
15	6 U304	BENT CAP	E	13	S	X			4- 0.000	6- 5.000	4- 0.000	6- 5.000					22- 2	21- 8	488
84	6 U305	BENT CAP	E	13	S	X	V	4	2-11.000	4- 7.500	2-11.000	4- 7.500					16- 5	15-11	2534
		INCR.=							2-11.000	8- 9.500	2-11.000	8- 9.500					24- 9	24- 3	
		5. in																	
2	6 U306	BENT CAP	E	13	S	X			2-11.000	4- 3.000	2-11.000	4- 3.000					15- 8	15- 2	46
2	6 U307	BENT CAP	E	13	S	X			2-11.000	6- 1.000	2-11.000	6- 1.000					19- 4	18-10	57
24	6 U308	BENT CAP	E	10	S	X				3- 2.000	0-10.000						7- 2	6-10	246
70	11 V301	COLUMN		20	X				24- 7.000								24- 7	24- 7	9143
44	9 V302	SHAFT		20	X				28- 3.625								28- 4	28- 4	4239
44	9 V303	SHAFT		20	X				26- 9.625								26-10	26-10	4014
72	9 V304	SHAFT		20	X				25- 0.000								25- 0	25- 0	6120
16	W5 W301	BENT CAP	E	22	X				1- 6.000	0- 9.125							26- 1	26- 1	71

BILL OF REINFORCING STEEL

NO.	REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS								NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT						
										B		C		D		E					F		H		K	
										FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.				FT.	IN.	FT.	IN.	FT.	IN.
INTERMEDIATE BENT NO. 4																										
53	10	D401	FOOTING		10	X					2- 0.000	21- 6.000						25- 6	24-10	5663						
58	11	D402	FOOTING		10	X					2- 0.000	19- 6.000						23- 6	22- 9	7011						
106	5	D403	FOOTING		19	X				5- 2.000	12- 3.000							17- 5	17- 3	1907						
116	5	D404	FOOTING		19	X				5- 2.000	11- 3.000							16- 5	16- 3	1966						
8	5	D405	FOOTING		10	X					1- 9.000	21- 9.000						25- 3	25- 0	209						
8	5	D406	FOOTING		10	X					1- 9.000	19- 9.000						23- 3	23- 0	192						
90	11	D407	FOOTING		19	X				13- 9.000	2- 0.000							15- 9	15- 5	7372						
28	4	H401	COLUMN		13	S	X			10- 9.000	4- 0.000	10- 9.000	4- 0.000					30- 3	30- 0	561						
56	4	H402	COLUMN		31	S	X			4- 0.000	0- 4.000							4- 9	4- 8	175						
28	4	H403	COLUMN		31	S	X			3- 6.000								3-11	3-11	73						
8	8	H404	BENT CAP		15	X				2- 0.000	18- 2.625				1- 9.875	0-10.000		20- 3	20- 2	431						
4	7	H405	BENT CAP		20	X				47- 9.000								47- 9	47- 9	390						
24	11	H406	BENT CAP		20	X				47- 9.000								47- 9	47- 9	6089						
92	8	H407	BENT CAP		31	S	X			4- 0.000								4-10	4-10	1187						
4	7	H408	BENT CAP		19	X				2-10.000	35- 5.500							38- 4	38- 1	311						
4	7	H409	BENT CAP		19	X	V	1		3- 6.000	23- 0.000							26- 6	26- 4	201						
			INCR.=							3- 6.000	19- 5.625							23- 0	22- 9							
			14.125 in																							
4	7	H410	BENT CAP		10	X					3-10.000	7- 0.000						14- 8	14- 4	117						
6	4	H411	BENT CAP		20	X				6-11.125								6-11	6-11	28						
12	8	H412	BENT CAP		20	X				47- 9.000								47- 9	47- 9	1530						
12	8	H413	BENT CAP		20	X	V	3		47- 9.000								47- 9	47- 9	1466						
			INCR.=							43- 9.125								43- 9	43- 9							
			16. in																							
7	6	H414	BENT CAP		10	S	X				2- 5.000	2- 7.000						7- 5	7- 1	74						
36	7	H415	BENT CAP		20	X	V	5		39- 4.875								39- 5	39- 5	2260						
			INCR.=							22- 0.125								22- 0	22- 0							
			33.625 in																							
14	6	H416	BENT CAP		10	S	X				2- 5.000	3- 9.000						8- 7	8- 3	173						
82	5	P401	SHAFT		16	X				3-10.000								14- 7	14- 5	1233						
72	5	P402	SHAFT		16	X				3- 4.000								12-11	12-10	964						
32	6	U401	BENT CAP		10	S	X				1- 0.000	4- 0.000						6- 0	5- 8	272						
18	6	U402	BENT CAP		10	S	X				3- 7.500	4- 0.000						11- 3	10-11	295						
17	6	U403	BENT CAP		10	S	X				6- 1.500	4- 0.000						16- 3	15-11	406						
40	6	U404	BENT CAP		13	S	X			2- 7.750	6- 1.625	2- 7.750	6- 1.625					18-11	18- 5	1106						
8	6	U405	BENT CAP		13	S	X			4- 0.000	6- 1.625	4- 0.000	6- 1.625					21- 7	21- 2	254						
112	6	U406	BENT CAP		13	S	X	V	4	2- 7.750	4- 6.000	2- 7.750	4- 6.000					15- 8	15- 2	3631						
			INCR.=							2- 7.750	10-11.250	2- 7.750	10-11.250					28- 6	28- 0							
			5.75 in																							
2	6	U407	BENT CAP		13	S	X			2- 7.750	4- 3.000	2- 7.750	4- 3.000					15- 2	14- 8	44						
2	6	U408	BENT CAP		10	S	X			2- 7.750		2- 7.750	6- 1.500					11- 5	10-10	33						
30	6	U409	BENT CAP		10	S	X				3- 2.000	0-10.000						7- 2	6-10	308						
90	11	V401	COLUMN		20	X				21-11.500								22- 0	22- 0	10520						
44	9	V402	SHAFT		20	X				27- 7.250								27- 7	27- 7	4126						
44	9	V403	SHAFT		20	X				22-10.750								22-11	22-11	3428						
72	9	V404	SHAFT		20	X				28- 0.000								28- 0	28- 0	6854						
16	W5	W401	BENT CAP		22	X				1- 6.000	0- 9.125							26- 1	26- 1	71						

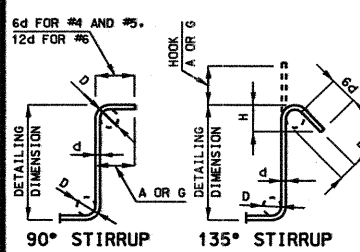
BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS							NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT	
									B	C	D	E	F	H	K				
									FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.				FT. IN.
SUBSTRUCTURE (CONT.)																			
INTERMEDIATE BENT NO. 5																			
47	10 D501	FOOTING		10	X					2- 0.000	19- 6.000						23- 6	22-10	4618
53	11 D502	FOOTING		10	X					2- 0.000	19- 6.000						23- 6	22- 9	6406
200	5 D503	FOOTING		19	X				4-10.000	11- 3.000							16- 1	15-11	3320
16	5 D504	FOOTING		10	X					1- 9.000	19- 6.000						23- 0	22- 9	380
	0 D505	NOT USED		0															
88	11 D506	FOOTING		19	X				13- 6.000	2- 0.000							15- 6	15- 2	7091
60	4 H501	COLUMN		13	X				8- 9.000	5- 0.000	8- 9.000	5- 0.000					28- 3	27-11	1119
120	4 H502	COLUMN		31	X				5- 0.000	0- 4.000							5- 9	5- 7	448
60	4 H503	COLUMN		31	X				3- 6.000								3-11	3-11	157
8	8 H504	BENT CAP		15	X				2- 0.000	14- 3.000				1- 9.875	0-10.000		16- 3	16- 2	345
6	7 H505	BENT CAP		20	X V	2			17- 8.000								17- 8	17- 8	270
		INCR. =							26- 4.000								26- 4	26- 4	
		52. in																	
12	8 H506	BENT CAP		20	X V	3			30- 8.000								30- 8	30- 8	1052
		INCR. =							35- 0.000								35- 0	35- 0	
		17.375 in																	
12	8 H507	BENT CAP		20	X				36- 5.000								36- 5	36- 5	1167
4	7 H508	BENT CAP		20	X				36- 5.000								36- 5	36- 5	298
20	11 H509	BENT CAP		20	X				36- 5.000								36- 5	36- 5	3870
4	7 H510	BENT CAP		19	X				2-10.000	25- 6.000							28- 4	28- 2	230
4	7 H511	BENT CAP		19	X				3- 6.000	15- 6.000							19- 0	18-10	154
4	7 H512	BENT CAP		10	X					3-10.000	4- 1.000						11- 9	11- 5	93
10	6 H513	BENT CAP		10	X					2- 5.000	5- 0.000						9-10	9- 6	143
36	6 H514	BENT CAP		10	X					2- 5.000	3- 2.000						8- 0	7- 8	415
6	4 H515	BENT CAP		20	X				5- 9.000								5- 9	5- 9	23
56	4 H516	BENT CAP		31	X				5- 0.000	0- 4.000							5- 9	5- 7	209
160	5 P501	SHAFT		16	X				3-10.000								14- 7	14- 5	2406
72	5 P502	SHAFT		16	X				3- 4.000								12-11	12-10	964
32	6 U501	BENT CAP		10	S X					1- 0.000	5- 0.000						7- 0	6- 8	320
	0 U502	NOT USED		0															
26	6 U503	BENT CAP		10	S X					3- 5.000	5- 0.000						11-10	11- 6	449
15	6 U504	BENT CAP		13	S X				5- 0.000	6- 5.000	5- 0.000	6- 5.000					24- 2	23- 8	533
84	6 U505	BENT CAP		13	S X V	4			3-11.000	4- 7.500	3-11.000	4- 7.500					18- 5	17-11	2786
		INCR. =							3-11.000	8- 9.500	3-11.000	8- 9.500					26- 9	26- 3	
		5. in																	
2	6 U506	BENT CAP		13	S X				3-11.000	4- 3.000	3-11.000	4- 3.000					17- 8	17- 2	52
2	6 U507	BENT CAP		13	S X				3-11.000	6- 1.000	3-11.000	6- 1.000					21- 4	20-10	63
24	6 U508	BENT CAP		10	S X					3- 2.000	0-10.000						7- 2	6-10	246
88	11 V501	COLUMN		20	X				37-10.000								37-10	37-10	17689
44	9 V502	SHAFT		20	X				41- 9.625								41-10	41-10	6258
44	9 V503	SHAFT		20	X				42- 4.750								42- 5	42- 5	6346
72	9 V504	SHAFT		20	X				28- 0.000								28- 0	28- 0	6854
16	W5 W501	BENT CAP		22	X				1- 6.000	0- 9.125							26- 1	26- 1	71

BILL OF REINFORCING STEEL

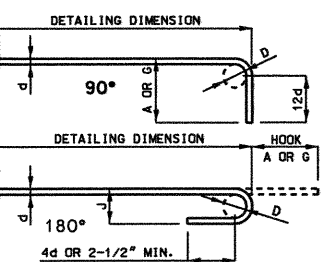
NO.	REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS							NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
										B	C	D	E	F	H	K			
										FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.			
INTERMEDIATE BENT NO. 6																			
40	10	D601	FOOTING		10	X					2- 0.000	19- 6.000					23- 6	22-10	3930
47	11	D602	FOOTING		10	X					2- 0.000	19- 6.000					23- 6	22- 9	5681
174	5	D603	FOOTING		19	X				4-10.000	11- 3.000						16- 1	15-11	2889
16	5	D604	FOOTING		10	X					1- 9.000	19- 6.000					23- 0	22- 9	380
	0	D605	NOT USED		0														
70	11	D606	FOOTING		19	X				13- 5.000	2- 0.000						15- 5	15- 1	5610
48	4	H601	COLUMN		13	X				8- 9.000	4- 0.000	8- 9.000	4- 0.000				26- 3	25-11	831
96	4	H602	COLUMN		31	X				4- 0.000	0- 4.000						4- 9	4- 7	294
48	4	H603	COLUMN		31	X				3- 6.000							3-11	3-11	126
8	8	H604	BENT CAP		15	X				2- 0.000	14- 3.000			1- 9.875	0-10.000		16- 3	16- 2	345
6	7	H605	BENT CAP		20	X	V	2		17- 8.000							17- 8	17- 8	270
			INCR. =							26- 4.000							26- 4	26- 4	
			52. in																
12	8	H606	BENT CAP		20	X	V	3		30- 8.000							30- 8	30- 8	1052
			INCR. =							35- 0.000							35- 0	35- 0	
			17.375 in																
12	8	H607	BENT CAP	E	20	X				36- 5.000							36- 5	36- 5	1167
4	7	H608	BENT CAP	E	20	X				36- 5.000							36- 5	36- 5	298
20	11	H609	BENT CAP	E	20	X				36- 5.000							36- 5	36- 5	3870
4	7	H610	BENT CAP	E	19	X				2-10.000	25- 6.000						28- 4	28- 2	230
4	7	H611	BENT CAP	E	19	X				3- 6.000	15- 6.000						19- 0	18-10	154
4	7	H612	BENT CAP	E	10	X				3-10.000	4- 1.000						11- 9	11- 5	93
10	6	H613	BENT CAP	E	10	X				2- 5.000	3- 9.000						8- 7	8- 3	124
36	6	H614	BENT CAP	E	10	X				2- 5.000	2- 7.000						7- 5	7- 1	383
6	4	H615	BENT CAP	E	20	X				4- 9.000							4- 9	4- 9	19
56	4	H616	BENT CAP	E	31	X				4- 0.000	0- 4.000						4- 9	4- 7	171
156	5	P601	SHAFT		16	X				3-10.000							14- 7	14- 5	2346
64	5	P602	SHAFT		16	X				3- 4.000							12-11	12-10	857
32	6	U601	BENT CAP	E	10	S	X				1- 0.000	4- 0.000					6- 0	5- 8	272
	0	U602	NOT USED		0														
26	6	U603	BENT CAP	E	10	S	X				3- 5.000	4- 0.000					10-10	10- 6	410
15	6	U604	BENT CAP	E	13	S	X			4- 0.000	6- 5.000	4- 0.000	6- 5.000				22- 2	21- 8	488
84	6	U605	BENT CAP	E	13	S	X	V	4	2-11.000	4- 7.500	2-11.000	4- 7.500				16- 5	15-11	2534
			INCR. =							2-11.000	8- 9.500	2-11.000	8- 9.500				24- 9	24- 3	
			5. in																
2	6	U606	BENT CAP	E	13	S	X			2-11.000	4- 3.000	2-11.000	4- 3.000				15- 8	15- 2	46
2	6	U607	BENT CAP	E	13	S	X			2-11.000	6- 1.000	2-11.000	6- 1.000				19- 4	18-10	57
24	6	U608	BENT CAP	E	10	S	X				3- 2.000	0-10.000					7- 2	6-10	246
70	11	V601	COLUMN		20	X				38-10.000							38-10	38-10	14443
44	9	V602	SHAFT		20	X				41- 1.250							41- 1	41- 1	6146
44	9	V603	SHAFT		20	X				41- 0.000							41- 0	41- 0	6134
72	9	V604	SHAFT		20	X				26- 0.000							26- 0	26- 0	6365
16	W5	W601	BENT CAP	E	22	X				1- 6.000	0- 9.125						26- 1	26- 1	71

BILL OF REINFORCING STEEL																			
NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS							NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT	
									B	C	D	E	F	H	K				
									FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.				FT. IN.
SUBSTRUCTURE (CONT.)																			
INTERMEDIATE BENT NO. 7																			
36	10 D701	FOOTING		10	X					2- 0.000	19- 5.000						23- 5	22- 9	3524
40	11 D702	FOOTING		10	X					2- 0.000	17- 5.000						21- 5	20- 8	4392
72	5 D703	FOOTING		19	X				4-10.000	11- 3.000							16- 1	15-11	1195
80	5 D704	FOOTING		19	X				4-10.000	10- 3.000							15- 1	14-11	1245
8	5 D705	FOOTING		10	X					2- 6.000	17- 6.000						22- 6	22- 3	186
8	5 D706	FOOTING		10	X					2- 6.000	19- 6.000						24- 6	24- 3	202
70	11 D707	FOOTING		19	X				13- 5.000	2- 0.000							15- 5	15- 1	5610
24	4 H701	COLUMN		13	X				8- 9.000	4- 0.000	8- 9.000	4- 0.000					26- 3	25-11	415
48	4 H702	COLUMN		31	X				4- 0.000	0- 4.000							4- 9	4- 7	147
24	4 H703	COLUMN		17	X				3- 6.000								4- 0	4- 0	64
8	8 H704	BENT CAP		15	X				2- 0.000	14- 3.000				1- 9.875	0-10.000		16- 3	16- 2	345
6	7 H705	BENT CAP		20	X V	2			17- 8.000								17- 8	17- 8	270
		INCR.=							26- 4.000								26- 4	26- 4	
		52. in																	
12	8 H706	BENT CAP		20	X V	4			30- 8.000								30- 8	30- 8	1052
		INCR.=							35- 0.000								35- 0	35- 0	
		26. in																	
12	8 H707	BENT CAP		20	X				36- 5.000								36- 5	36- 5	1167
4	7 H708	BENT CAP		20	X				36- 5.000								36- 5	36- 5	298
20	11 H709	BENT CAP		20	X				36- 5.000								36- 5	36- 5	3870
4	7 H710	BENT CAP		19	X				2-10.000	25- 6.000							28- 4	28- 2	230
4	7 H711	BENT CAP		19	X				3- 6.000	15- 6.000							19- 0	18-10	154
4	7 H712	BENT CAP		10	X					3-10.000	4- 1.000						11- 9	11- 5	93
10	6 H713	BENT CAP		10	X					2- 5.000	3- 9.000						8- 7	8- 3	124
36	6 H714	BENT CAP		10	X					2- 5.000	2- 7.000						7- 5	7- 1	383
6	4 H715	BENT CAP		20	X				4- 9.000								4- 9	4- 9	19
56	4 H716	BENT CAP		31	X				4- 0.000	0- 4.000							4- 9	4- 7	171
134	5 P701	SHAFT		16	X				3- 4.000								12-11	12-10	1794
64	5 P702	SHAFT		16	X				2-10.000								11- 3	11- 3	751
32	6 U701	BENT CAP		10	X					1- 0.000	4- 0.000						6- 0	5- 8	272
	0 U702	NOT USED		0															
26	6 U703	BENT CAP		10	X					3- 5.000	4- 0.000						10-10	10- 6	410
15	6 U704	BENT CAP		13	X				4- 0.000	6- 5.000	4- 0.000	6- 5.000					22- 2	21- 8	488
84	6 U705	BENT CAP		13	X V	4			2-11.000	4- 7.500	2-11.000	4- 7.500					16- 5	15-11	2534
		INCR.=							2-11.000	8- 9.500	2-11.000	8- 9.500					24- 9	24- 3	
		5. in																	
2	6 U706	BENT CAP		13	X				2-11.000	4- 3.000	2-11.000	4- 3.000					15- 8	15- 2	46
2	6 U707	BENT CAP		13	X				2-11.000	6- 1.000	2-11.000	6- 1.000					19- 4	18-10	57
4	6 U708	BENT CAP		10	X					3- 2.000	0-10.000						7- 2	6-10	41
70	11 V701	COLUMN		20	X				25- 2.500								25- 3	25- 3	9391
36	9 V702	SHAFT		20	X				40- 0.000								40- 0	40- 0	4896
36	9 V703	SHAFT		20	X				40- 0.000								40- 0	40- 0	4896
64	9 V704	SHAFT		20	X				26- 0.000								26- 0	26- 0	5658
16	W5 W701	BENT CAP		22	X				1- 6.000	0- 9.125							26- 1	26- 1	71



STIRRUP HOOK DIMENSIONS				
GRADES 40 - 50 - 60 KSI				
BAR SIZE	D (IN.)	90° HOOK A OR G	135° HOOK A OR G	APPROX. H
#4	2"	4-1/2"	4-1/2"	3"
#5	2-1/2"	6"	5-1/2"	3-3/4"
#6	4-1/2"	12"	8"	4-1/2"

NOTE: UNLESS OTHERWISE NOTED DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



END HOOK DIMENSIONS				
ALL GRADES				
BAR SIZE	D (IN.)	180° HOOKS A OR G	90° HOOKS A OR G	
#5	2-1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3-3/4"	7"	5"	10"
#6	4-1/2"	8"	6"	12"
#7	5-1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9-1/2"	15"	11-3/4"	19"
#10	10-3/4"	17"	13-1/4"	22"
#11	12"	19"	14-3/4"	2'-0"
#14	18-1/4"	2'-3"	21-3/4"	2'-7"

NOTE: ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEG. TO BE BENT WITH THE SAME PROCEDURE AS FOR 90 DEG. STD. HOOKS. HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET. E = EPOXY COATED REINFORCEMENT. S = STIRRUP. X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES. V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE. NO. EA. = NUMBER OF BARS OF EACH LENGTH. NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATOR'S USE (NEAREST INCH). ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH. PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS. FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS. REINFORCING STEEL (GRADE 60) = FY 60,000 PSI.

DETAILED: SJ DEC. 2005
CHECKED: JEF JAN. 2006

JACOBS CIVIL INC.
ST. LOUIS, MO.

BILL OF REINFORCING STEEL																		
NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS							NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									B	C	D	E	F	H	K			
									FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.			
END BENT NO. 8																		
16	6 F801	DIAPHRAGM		19	S				5- 5.500	3- 0.000						8- 6	8- 4	200
36	6 F802	WING BRACE		23					1- 2.000	4- 3.000	1- 2.000	0- 9.875	0- 9.875	0- 9.875	0- 9.875	6- 7	6- 6	351
8	11 H801	BEAM		20					40- 5.000							40- 5	40- 5	1718
4	6 H802	BEAM		20					40- 5.000							40- 5	40- 5	243
4	7 H803	BEAM		19					1- 2.000	26- 8.000						27-10	27- 8	226
4	7 H804	BEAM		19					1- 2.000	15-10.000						17- 0	16-10	138
4	7 H805	BEAM		19					1- 2.000	5- 0.000						6- 2	6- 0	49
22	6 H806	DIAPHRAGM		20					40- 6.000							40- 6	40- 6	1338
37	5 H807	DIAPHRAGM	E	20					2- 6.000							2- 6	2- 6	96
4	6 H808	DIAPHRAGM	E	20					40- 6.000							40- 6	40- 6	243
68	6 H809	WINGWALL		20					20- 1.500							20- 2	20- 2	2060
4	8 H810	WINGWALL	E	20					21- 3.000							21- 3	21- 3	227
12	8 H811	WINGWALL		20					21- 3.000							21- 3	21- 3	681
13	5 U801	BEAM		10	S				5- 7.750	3- 0.000						14- 4	14- 1	191
7	5 U802	BEAM		10	S				6-11.125	3- 0.000						16-10	16- 8	122
4	5 U803	BEAM		13	S				3- 0.000	3- 3.000	3- 0.000	3- 3.000				13- 5	13- 1	55
5	5 U804	BEAM		13	S				3- 0.000	3-10.750	3- 0.000	3-10.750				14- 9	14- 5	75
4	5 U805	BEAM		13	S				3- 0.000	4- 6.500	3- 0.000	4- 6.500				16- 0	15- 8	65
5	5 U806	BEAM		13	S				3- 0.000	5- 2.125	3- 0.000	5- 2.125				17- 3	16-11	88
30	5 U807	DIAPHRAGM	E	10	S				8- 5.125	4- 4.500						21- 3	21- 0	657
30	5 U808	DIAPHRAGM		19	S				7- 4.000	3- 0.000						10- 4	10- 3	321
51	6 U809	DIAPHRAGM	E	19	S				4-10.500	3- 3.000						8- 2	8- 0	613
12	5 V801	DIAPHRAGM		20					5-10.750							5-11	5-11	74
8	5 V802	DIAPHRAGM		20					7- 2.125							7- 2	7- 2	60
12	6 V803	DIAPHRAGM	E	20					7- 4.000							7- 4	7- 4	132
40	6 V804	WINGWALL		20		V	2		13-10.000							13-10	13-10	809
		INCR.=							13- 1.000							13- 1	13- 1	
		.5 in																
40	6 V805	WINGWALL		20		V	2		11- 4.000							11- 4	11- 4	658
		INCR.=							10- 7.000							10- 7	10- 7	
		.5 in																

BILL OF REINFORCING STEEL																		
NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS							NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									B	C	D	E	F	H	K			
									FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.			
SUPERSTRUCTURE																		
SLAB																		
1870	5 S101	SLAB	E 20						37- 4.000							37- 4	37- 4	72815
384	5 S102	SLAB	E 20						46- 7.000							46- 7	46- 7	18657
128	6 S103	SLAB	E 20						5- 6.000							5- 6	5- 6	1057
448	6 S104	SLAB	E 20						58- 2.000							58- 2	58- 2	39140
2793	6 S105	SLAB	E 20						40- 4.000							40- 4	40- 4	169202
2793	5 S106	SLAB	E 20						40- 4.000							40- 4	40- 4	117495
1445	5 S107	SLAB	E 20						39- 6.000							39- 6	39- 6	59532

BILL OF REINFORCING STEEL																							
NO. REQ'D.	MARK NO.	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS												NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									B	C	D	E	F	H	K								
									FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.	FT.	IN.			
SUMMARY																							
SLAB ON GIRDER																							
4																			0				
4			E																0				
5																			2102				
5			E																270003				
6																			11318				
6			E																211397				
7																			826				
7			E																0				
8																			1362				
8			E																454				
11																			3436				
REINFORCING STEEL (BRIDGES)																							
4																			6561				
4			E																380				
5																			35761				
5			E																0				
6																			20518				
6			E																9120				
7																			6954				
7			E																1699				
8																			15100				
8			E																2528				
9																			93633				
10																			25877				
11																			157514				
11			E																8127				
W5																			284				
W5			E																142				
BARRIER CURB																							
4			E																507				
5			E																52428				
SLIP FORM OPTION																							
5			E																534				
TOTALS																							
4																			6561				
4			E																380				
5																			37863				
5			E																270003				
6																			31836				
6			E																220517				
7																			7780				
7			E																1699				
8																			16462				
8			E																2982				
9																			93633				
10																			25877				
11																			160950				
11			E																8127				
W5																			284				
W5			E																142				

STATE

PROJ. NO.

SHEET NO.

MO

875

SHAPE 6

SHAPE 7

SHAPE 8

SHAPE 9

SHAPE 10

SHAPE 11

SHAPE 12

SHAPE 13

SHAPE 14

SHAPE 15

SHAPE 16

SHAPE 17

SHAPE 18

SHAPE 19

SHAPE 20

SHAPE 21

SHAPE 22

SHAPE 23

SHAPE 24

SHAPE 25

SHAPE 26

SHAPE 27

SHAPE 28

SHAPE 29

SHAPE 30

SHAPE 31

SHAPE 32

SHAPE 33

SHAPE 34

SHAPE 35

SHAPE 36

90° STIRRUP

135° STIRRUP

END HOOK DIMENSIONS

NOTE:

ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEG. TO BE BENT WITH THE SAME PROCEDURE AS FOR 90 DEG. STD. HOOKS.

HOOKE AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.

E = EPOXY COATED REINFORCEMENT.

S = STIRRUP.

X = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.

V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.

NO. EA. = NUMBER OF BARS OF EACH LENGTH.

NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATOR'S USE (NEAREST INCH).

ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.

PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.

FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.

REINFORCING STEEL (GRADE 60) = FY 60,000 PSI.

STATE OF MISSOURI

JOHN E. FINKE

REGISTERED PROFESSIONAL ENGINEER

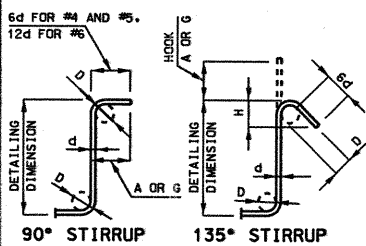
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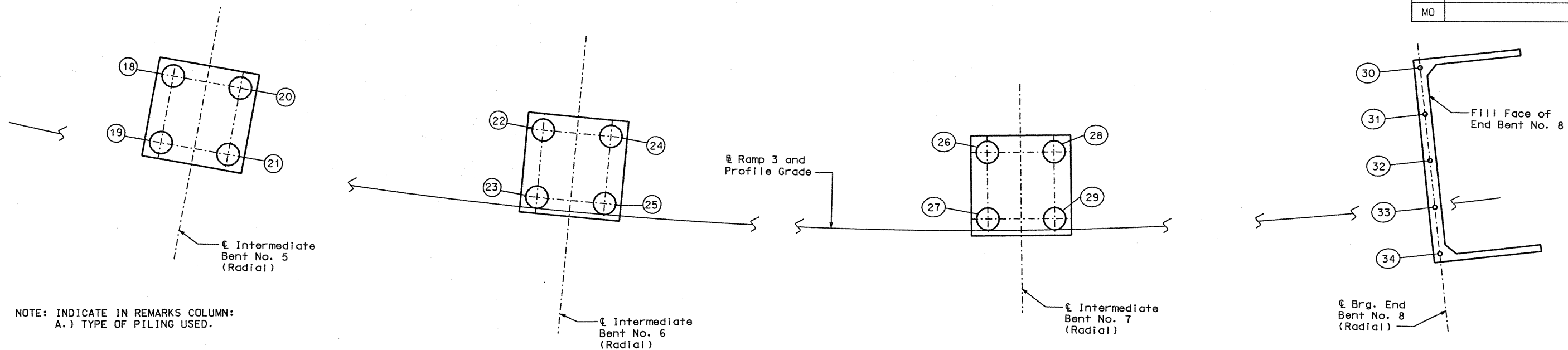
SHAPE 34

(SHAPE 35 SHALL BE A DEFORMED OR PLAIN SPIRAL BAR OR WIRE.)

BENDING DIAGRAMS



STIRRUP HOOK DIMENSIONS				
GRADES 40 - 50 - 60 KSI				
BAR SIZE	D (IN.)	90° HOOK	135° HOOK	APPROX. H
#4	2"	4-1/2"	4-1/2"	3"
#5	2-1/2"	6"	5-1/2"	3-3



PARTIAL PLAN SHOWING
PILE NUMBERING FOR RECORDING
"AS BUILT MICRO PILE AND DRILLED SHAFT" DATA

[illegible][illegible]

NOTE: THIS SHEET TO BE COMPLETED BY
MoDOT CONSTRUCTION PERSONNEL.

