

STATE OF TEXAS
 GREGG A. FREEBY
 70727
 REGISTERED PROFESSIONAL ENGINEER

STATE OF TEXAS
 MARK P. MCLELLAND
 60710
 REGISTERED PROFESSIONAL ENGINEER

ADT 2006 = 450
 ADT 2026 = 700
 FUNCTION CLASSIFICATION: RURAL-MAJOR COLLECTOR
 NBI#: 20-229-1238-02-003

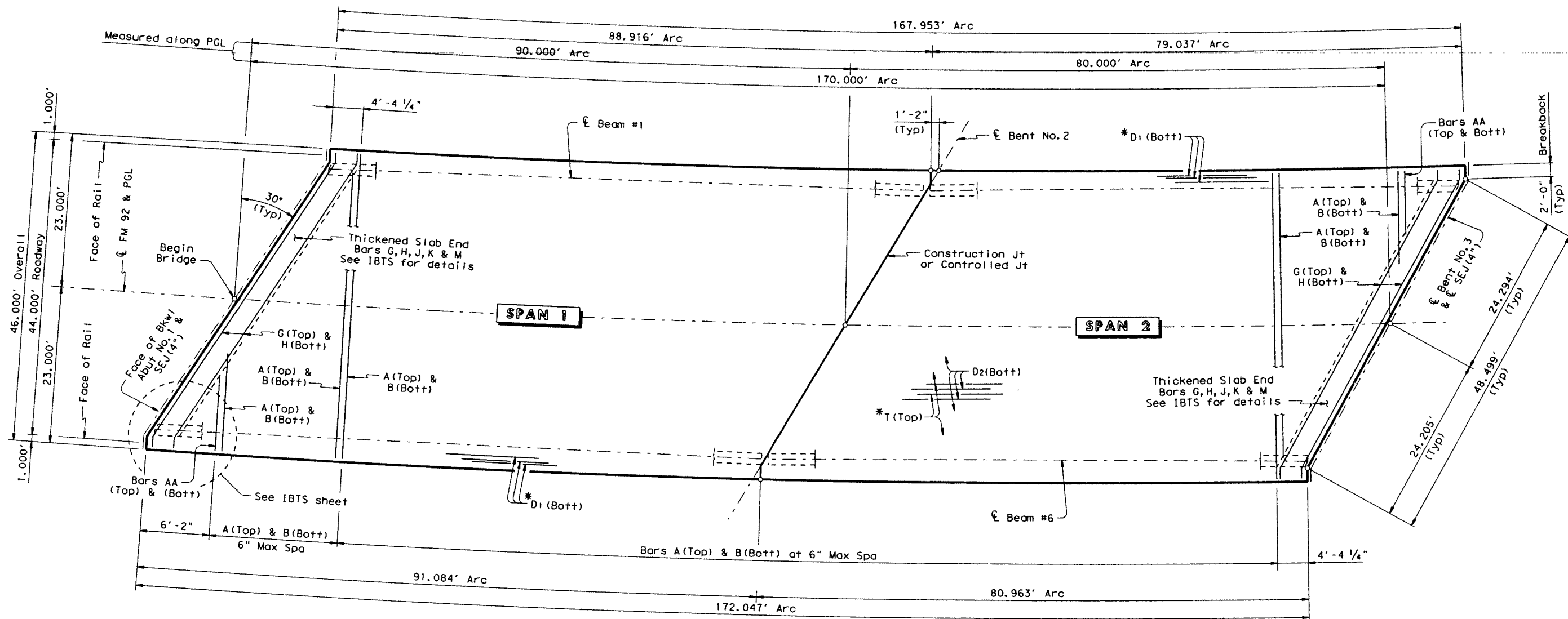
HL 93 LOADING
 SCALE: 1" = 40'

Texas Department of Transportation

PBSJ

BRIDGE LAYOUT
 PAMPLIN CREEK BRIDGE

DN:	RCH	FED. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
CK DN:	DWS	6	TEXAS		FM 92
DW:	RCH	STATE DIST.	COUNTY	CONTROL SECTION NO.	SHEET NO.
CK DW:	DWS	20	TYLER	1238 02	004

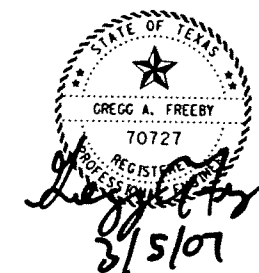


PLAN

*2" End Cover on Bars D₁ and T.

ACC: M. GESCH

LEVELS DISPLAYED															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
7	8	9	20	21	22	32	42	52	62	72	82	93	03	13	23
3	3	4	3	5	6	3	5	8	3	4	0	1	4	2	4
4	9	5	0	5	1	5	2	5	4	5	5	6	5	7	5
8	5	6	5	6	5	6	5	7	5	8	5	9	6	0	6
3															



HL-93 LOADING

SHEET 1 OF 2

Texas Department of Transportation
Bridge Division

170.00' PRESTRESSED
CONCRETE BEAM UNIT

(SPANS 1 & 2)

PAMPLIN CREEK BRIDGE

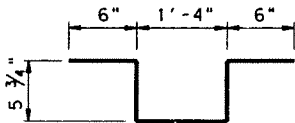
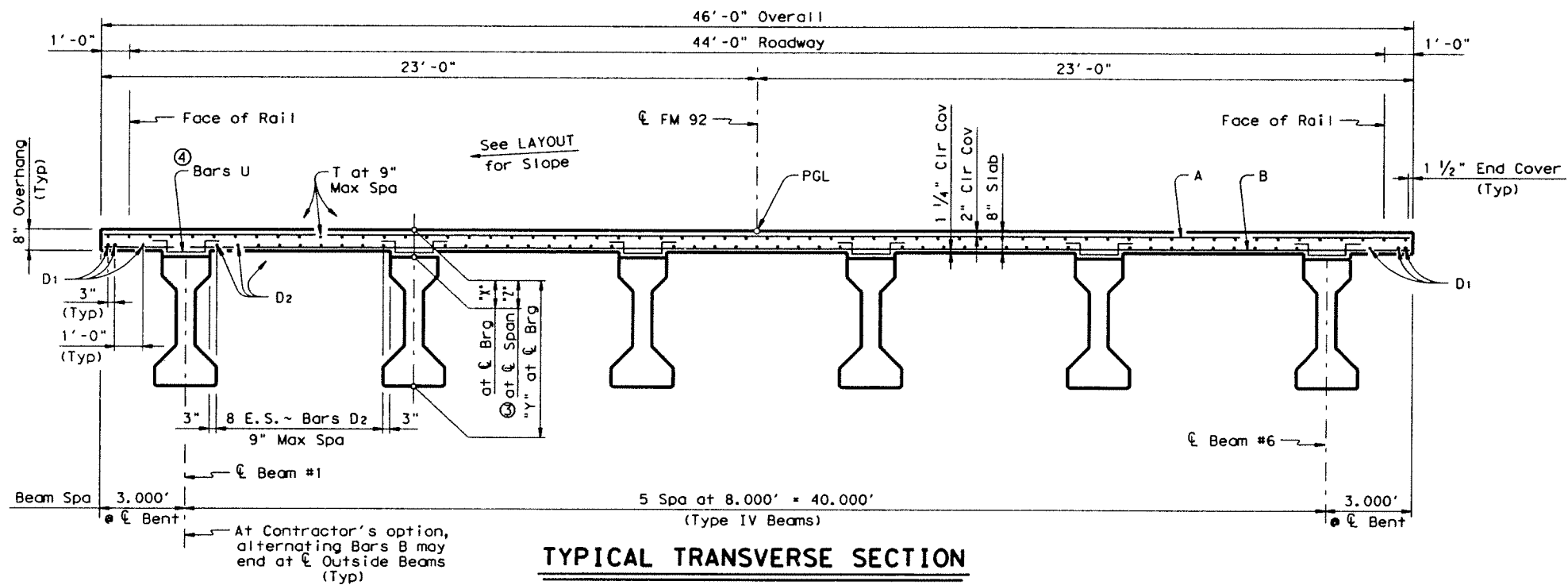
FILE: 6841PB01.DGN	DATE: TAR	CHK: RRC	DATE: MFG	CHK: TAR
© TxDOT JUNE 2006	DISTRICT: 20	FEDERAL AID PROJECT		SHEET
REVISIONS	COUNTY: TYLER	CONTROL: 1238	SECT: 02	JOB: 004
				HIGHWAY: FM 92

LEVELS DISPLAYED
ACC: M. GESCH

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64

TABLE OF SECTION DEPTHS					BAR TABLE		TABLE OF ESTIMATED QUANTITIES				
Span No.	Beam No.	"X" at \bar{c} Brg	"Y" at \bar{c} Brg	"Z" at \bar{c} Span ③	BAR	SIZE	SPAN	REINF CONC SLAB	PRESTRESSED CONC BEAM (Type IV) ②	CLASS "S" CONCRETE	REINFORCING STEEL
1	All	1'-0 1/4"	5'-6 1/4"	9 1/2"	A	#5	NO.	SF	LF	CY	Lb
2	1 & 2	11 1/2"	5'-5 1/2"	9 1/2"	B	#5	1	4140	537.80	110.2	26910
2	3 - 6	11 1/2"	5'-5 1/2"	9 3/8"	D	#5	2	3680	477.96	97.3	23920
					G	#5	TOTAL	7820	1015.76	207.5	50830 ①
					H	#5	<div>① Reinforcing steel weight is calculated using an approximate factor of 6.5 Lbs per Sq Ft. ② Lengths shown are bottom beam flange lengths with adjustments made for beam slope. See BEAM LAYOUT for beam lengths.</div>				
					J	#5					
					K	#5					
					M	#5					
					T	#4					
					U	#4					

③ Theoretical dimension



④ BARS U
Bars U shall match Bars R in beam where Haunch exceeds 3".

GENERAL NOTES:
Designed according to AASHTO LRFD and current Interim Specifications.
See PCP or PMDF standards for details and quantity adjustments if either of these options are used.
See IBTS standard for Thickened Slab End details.
All reinforcing steel shall be Grade 60.
Concrete strength $f'_c = 4000$ psi.
Bar laps, where required, shall be as follows: #4 = 1'-5" #5 = 1'-9"

HL-93 LOADING SHEET 2 OF 2

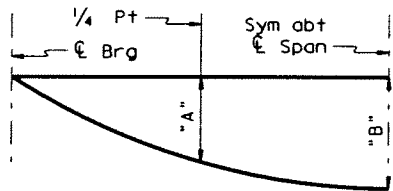
Texas Department of Transportation
Bridge Division

170.00' PRESTRESSED
CONCRETE BEAM UNIT

(SPANS 1 & 2)

PAMPLIN CREEK BRIDGE

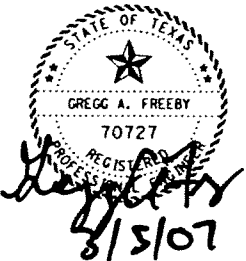
FILE# 6841PB01.DGN	DWG: TAR	CR: RRC	DWG: MFG	CR: TAR
© TxDOT JUNE 2006	DISTRICT 20	FEDERAL AID PROJECT SHEET		
REVISIONS	COUNTY TYLER	CONTROL 1238	SECT 02	JOB 004
				HIGHWAY FM 92

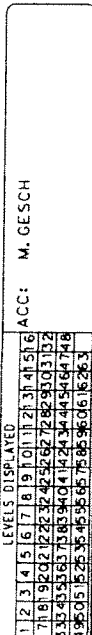


DEAD LOAD
DEFLECTION DIAGRAM

NOTE: Deflection shown are due to concrete slab only. ($E_c = 5 \times 10^6$ psi)
Calculated deflections shown are theoretical and actual dimensions may be less. Deflections shall be adjusted based on field observations.

Span No.	Beam No.	"A" Ft	"B" Ft
1	1	0.052	0.072
1	2	0.053	0.074
1	3	0.053	0.075
1	4	0.054	0.076
1	5	0.055	0.078
1	6	0.056	0.079
2	1	0.032	0.045
2	2	0.033	0.046
2	3	0.033	0.047
2	4	0.034	0.048
2	5	0.035	0.048
2	6	0.035	0.049

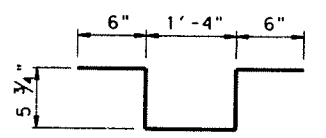
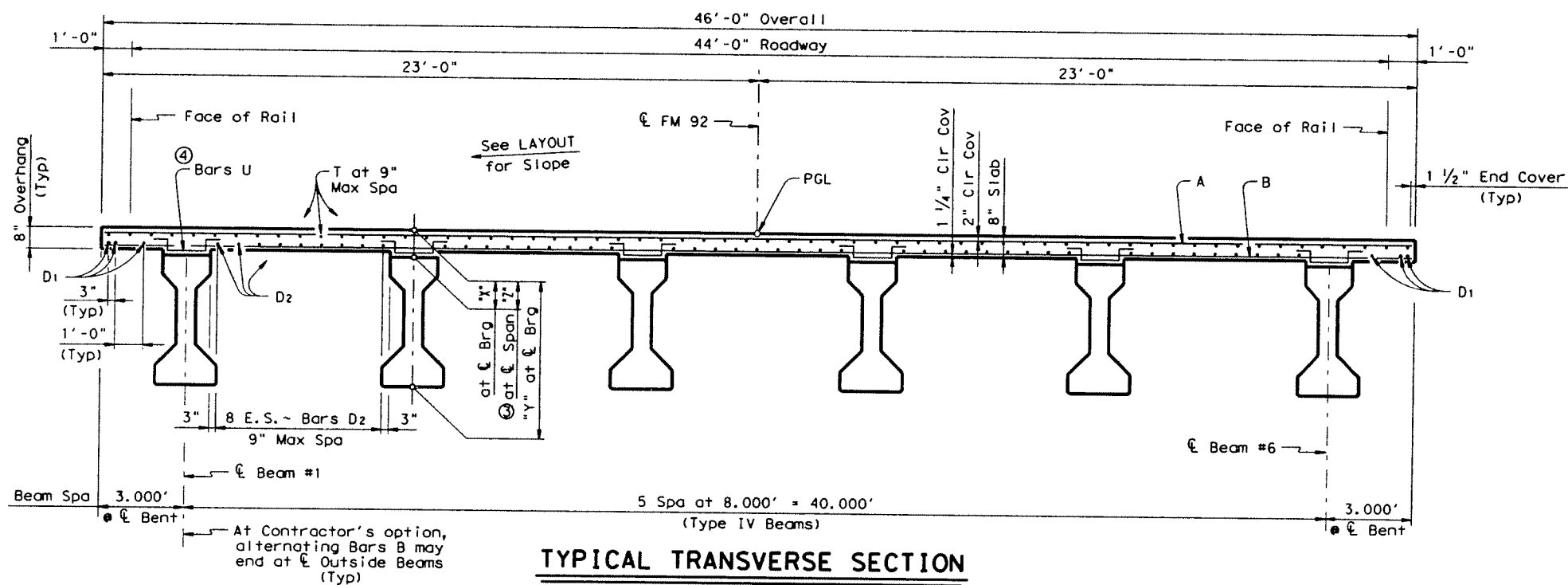




FILE#	6841PB01.DGN	DN#	TAR	CR#	RRC	DN#	MFG	CR#	TAR
C TXDOT JUNE 2006		DISTRICT	FEDERAL AID PROJECT					SHEET	
REVISONS		20							
COUNTY			CONTROL	SECT	JOB	HIGHWAY			
TYLER			1238	02	004	FM 92			

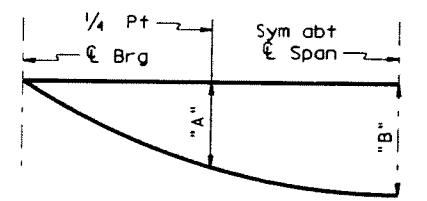
LEVELS DISPLAYED
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
ACC: M. GESCH
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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Span No.	Beam No.	"X" at \bar{C} Brg	"Y" at \bar{C} Brg	"Z" at \bar{C} Span ③	BAR	SIZE	SPAN NO.	REINF CONC SLAB SF	PRESTRESSED CONC BEAM LF (Type IV) ②	CLASS "S" CONCRETE CY	REINFORCING STEEL Lb
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③ Theoretical dimension					G	#5	① Reinforcing steel weight is calculated using an approximate factor of 6.5 Lbs per Sq Ft. ② Lengths shown are bottom beam flange lengths with adjustments made for beam slope. See BEAM LAYOUT for beam lengths.				
					H	#5					
					J	#5					
					K	#5					
					M	#5					
					T	#4					
					U	#4					



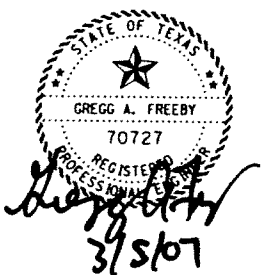
④ BARS U
Bars U shall match Bars R in beam where Haunch exceeds 3".

Span No.	Beam No.	"A" Ft	"B" Ft
3	1	0.032	0.045
3	2	0.033	0.046
3	3	0.033	0.047
3	4	0.034	0.048
3	5	0.035	0.048
3	6	0.035	0.049
4	1	0.052	0.072
4	2	0.053	0.074
4	3	0.053	0.075
4	4	0.054	0.076
4	5	0.055	0.078
4	6	0.056	0.079



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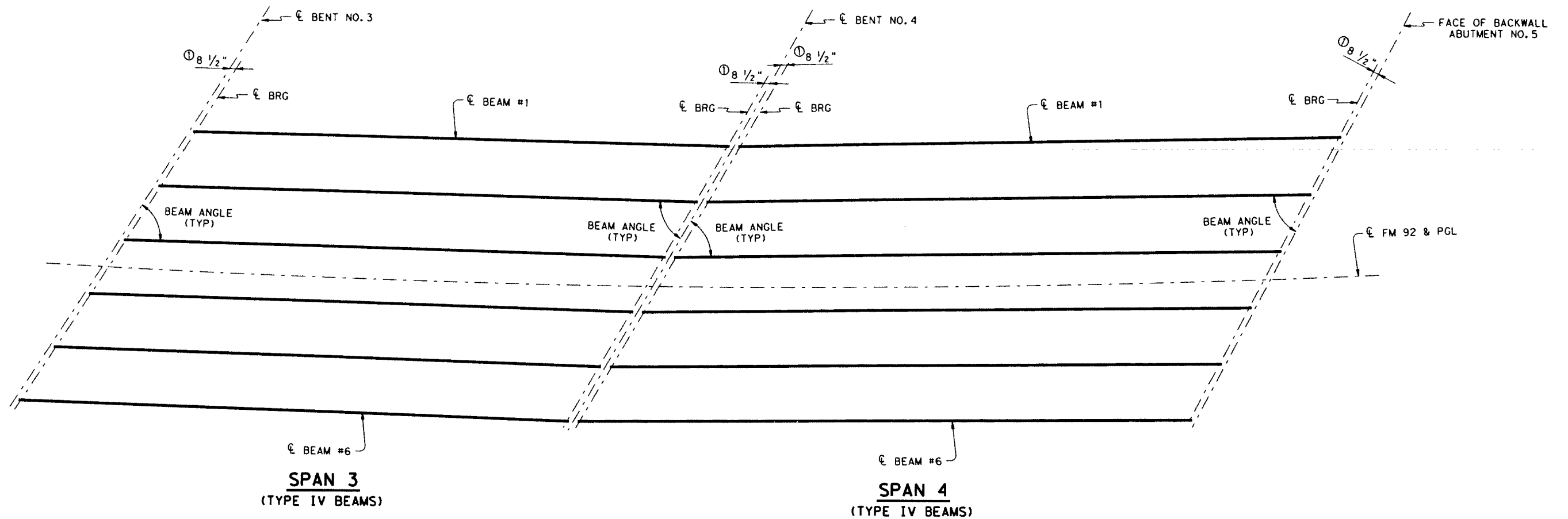


HL-93 LOADING SHEET 2 OF 2

Texas Department of Transportation
Bridge Division

170.00' PRESTRESSED
CONCRETE BEAM UNIT
(SPANS 3 & 4)
PAMPLIN CREEK BRIDGE

FILE: 6841PB01.DGN	DATE: TAR	CHK: RRC	DATE: MFG	CHK: TAR
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REVISIONS				
20				
COUNTY	CONTROL	SECT	JOB	HIGHWAY
TYLER	1238	02	004	FM 92



BENT REPORT

BENT NO. 3 (N 64 8 50.72 W)				
DISTANCE BETWEEN STATION LINE AND BEAM 1 23.135 L				
		BEAM SPAC.	BEAM ANGLE	
		(C.L. BENT)	D	M S
SPAN 3	BEAM 1	.000	58	26 57
	BEAM 2	9.238	58	35 25
	BEAM 3	9.238	58	43 48
	BEAM 4	9.238	58	52 07
	BEAM 5	9.238	59	00 21
	BEAM 6	9.238	59	08 32
TOTAL			46.189	

BENT NO. 4 (N 66 32 50.72 W)				
DISTANCE BETWEEN STATION LINE AND BEAM 1 23.135 L				
		BEAM SPAC.	BEAM ANGLE	
		(C.L. BENT)	D	M S
SPAN 3	BEAM 1	.000	60	50 57
	BEAM 2	9.238	60	59 25
	BEAM 3	9.238	61	07 48
	BEAM 4	9.238	61	16 07
	BEAM 5	9.238	61	24 21
	BEAM 6	9.238	61	32 32
TOTAL			46.189	

SPAN 4	BEAM 1	.000	58	17 57
	BEAM 2	9.238	58	26 25
	BEAM 3	9.238	58	34 48
	BEAM 4	9.238	58	43 07
	BEAM 5	9.238	58	51 21
	BEAM 6	9.238	58	59 32
TOTAL			46.189	

ABUT. NO. 5 (N 69 14 50.72 W)				
DISTANCE BETWEEN STATION LINE AND BEAM 1 23.135 L				
		BEAM SPAC.	BEAM ANGLE	
		(C.L. BENT)	D	M S
SPAN 4	BEAM 1	.000	60	59 57
	BEAM 2	9.238	61	08 25
	BEAM 3	9.238	61	16 48
	BEAM 4	9.238	61	25 07
	BEAM 5	9.238	61	33 21
	BEAM 6	9.238	61	41 32
TOTAL			46.189	

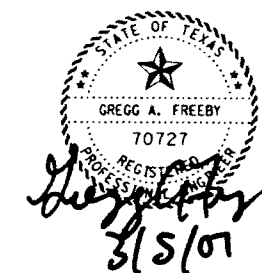
BEAM REPORT

BEAM REPORT, SPAN 3				
		HORIZONTAL DISTANCE	TRUE DISTANCE	BEAM SLOPE
		C-C BENT	C-C BRG.	BOT. BM. FLG. ②
BEAM 1	79.156	77.740	78.82	.0036
BEAM 2	79.491	78.074	79.16	.0032
BEAM 3	79.825	78.409	79.49	.0029
BEAM 4	80.160	78.744	79.83	.0025
BEAM 5	80.496	79.079	80.16	.0022
BEAM 6	80.832	79.415	80.50	.0019

BEAM REPORT, SPAN 4				
		HORIZONTAL DISTANCE	TRUE DISTANCE	BEAM SLOPE
		C-C BENT	C-C BRG.	BOT. BM. FLG. ②
BEAM 1	89.049	87.531	88.70	.0099
BEAM 2	89.425	87.908	89.07	.0095
BEAM 3	89.802	88.286	89.45	.0092
BEAM 4	90.179	88.664	89.83	.0088
BEAM 5	90.556	89.042	90.20	.0084
BEAM 6	90.934	89.421	90.58	.0080

① SEE STANDARD IBEB FOR ORIENTATION OF DIMENSION.

② BEAM LENGTHS SHOWN ARE BOTTOM BEAM FLANGE LENGTHS WITH ADJUSTMENTS MADE FOR BEAM SLOPE.



HL-93 LOADING

Texas Department of Transportation
Bridge Division

BEAM LAYOUT

(SPANS 3 & 4)

PAMPLIN CREEK BRIDGE

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REVISIONS		20		
		COUNTY	CONTROL SECT	JOB HIGHWAY
		TYLER	1238	02 004 FM 92

ACC: M. GESCH

LEVELS DISPLAYED	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100