

ORLEANS SIDE

STA 568+00

TO

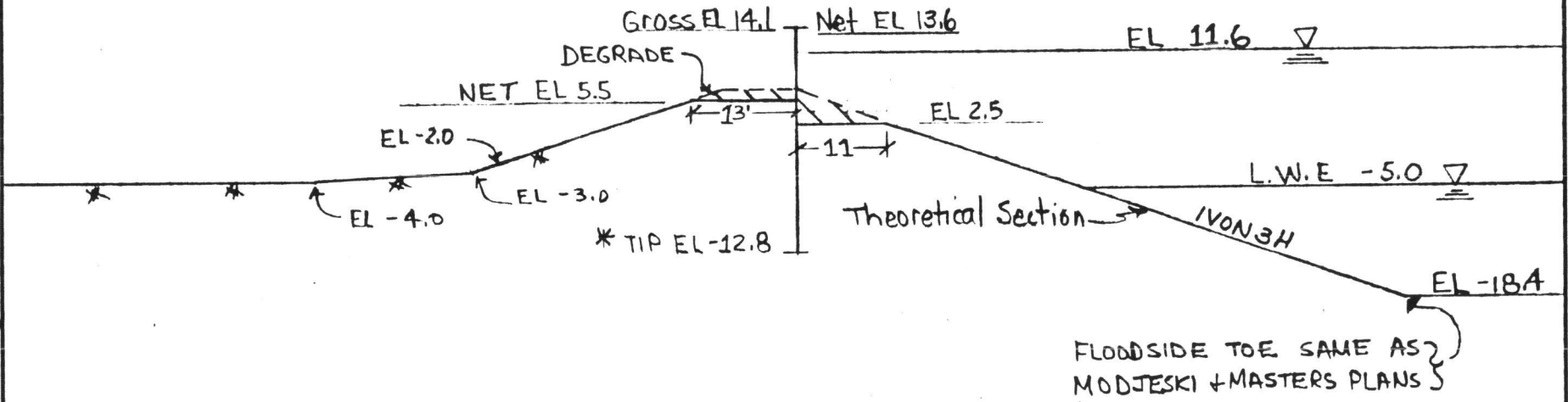
STA 589+00

A0006693

COMPUTATION SHEET

PROJECT 17th St Outfall Canal	PAGE OF	COMPUTED BY EJV
SUBJECT STA 568+00 TO STA 589+00	DATE 4/24/87	CHECKED BY
	DATE 3/25/88	

STA 568+00 TO STA 589+00
ORLEANS SIDE



SCALE 1" = 20'
ELEVATION IN FEET NGVD

Q Files	F.S.	SWL	CASE
Q5890A	1.0	11.6	S
Q5890B	1.5	11.6	S
Q5890D	1.5	13.6	Q
Q5890F	1.5	0.0	S

* 3 TO 1 HEAD PENETRATION RATIO

18MAY88 PER
FRANK ONLY A
PAPER EDITION NOT
A COMPUTER FILE
QUAL #
312 BEC

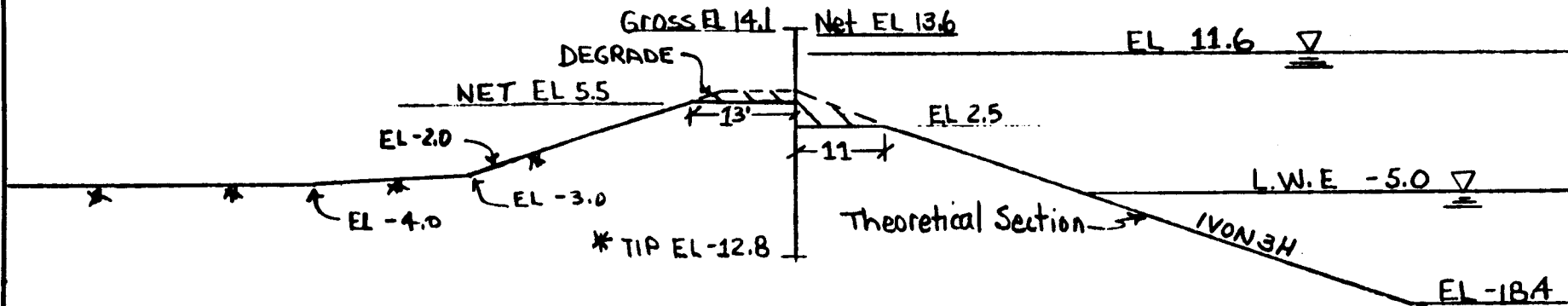
REVISED 3/88

(Encl 9

PROJECT	17th St Offfall Canal	PAGE	OF	COMPUTED BY	DATE
SUBJECT	STA 568+00 TO STA 589+00 Orleans Side			EMJ	4/24/87
		CHECKED BY			DATE
					3/25/88

REVIS D 3/88

STA 568+00 TO STA 589+00
ORLEANS SIDE



NOTE: TRANSITION FROM STA 589+00 TO STA 590+00

SCALE 1" = 20'

ELEVATION IN FEET NGVD

Q Files ES SWL CASE

Q5890A 1.0 11.6 S

Q5890B 1.5 11.6 S

Q5890D 1.0 13.6 Q

Q5890F 1.5 0.0 S

* 3 TO 1 HEAD PENETRATION RATIO

EMJ
3/88

REVISED 3/88

LIST Q58901

BEAMS (SHEAR, MOMENT, DEFLECTION)

17TH STR.-Q5890A-SWL=11.6-S CASE-FS=1.0
=1.

THE REFERENCE SYSTEM SELECTED DEFINES POSITIVE FORCES AS TO THE LEFT
INCREASING MEMBER COORDINATES AS UPWARD, AND POSITIVE MOMENTS
AS COUNTERCLOCKWISE.

THE MAXIMUM DEFLECTION IS 0.73 INCHES AND OCCURS AT MEMBER COORDINATE
13.60 FT.

Z-22 HAS BEEN GIVEN TO SUPPORT THE LOAD SYSTEM.

THE WEIGHT OF THIS VERTICAL MEMBER HAS BEEN NEGLECTED.

CALCULATED EXTERNAL LOADS

DISTANCE FROM REFERENCE(FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
-7.74	POINT LD	0.80 LBF
-7.74	COUPLE	-21.08 LBF-FT

INPUTTED LOADS

DISTANCE FROM REFERENCE(FT)	TYPE OF LOAD	MAGNITUDE OF LOAD
11.60	CONTN LD	0.00 LBF/SQ FT
10.60	CONTN LD	62.50 LBF/SQ FT
9.60	CONTN LD	125.00 LBF/SQ FT
8.60	CONTN LD	187.50 LBF/SQ FT
7.60	CONTN LD	250.00 LBF/SQ FT
6.60	CONTN LD	312.50 LBF/SQ FT
5.60	CONTN LD	375.00 LBF/SQ FT
5.50	CONTN LD	381.25 LBF/SQ FT
5.50	CONTN LD	381.25 LBF/SQ FT
4.50	CONTN LD	169.84 LBF/SQ FT
3.70	CONTN LD	0.00 LBF/SQ FT
3.50	CONTN LD	-41.58 LBF/SQ FT
3.50	CONTN LD	-41.58 LBF/SQ FT
2.50	CONTN LD	-214.19 LBF/SQ FT
2.50	CONTN LD	-214.19 LBF/SQ FT
1.50	CONTN LD	-369.06 LBF/SQ FT
0.50	CONTN LD	-523.92 LBF/SQ FT
0.00	CONTN LD	-601.36 LBF/SQ FT
0.00	CONTN LD	-601.36 LBF/SQ FT
-1.00	CONTN LD	-676.06 LBF/SQ FT
-2.00	CONTN LD	-750.77 LBF/SQ FT

58 -2.20 CONTN LD -765.64 LBF/SQ FT
 59 -4.38 CONTN LD 0.00 LBF/SQ FT
 60 -7.74 CONTN LD 1179.64 LBF/SQ FT
 61 -7.74 CONTN LD 0.00 LBF/SQ FT

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64 Z-22 PROPERTIES ARE AS FOLLOWS.

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67 MOMENT OF INERTIA= 84.38 IN. TO THE 4TH PER FOOT OF WALL

68 CROSS SECTIONAL AREA= ~~6.47~~ SQ IN. *1.84*

69 ELASTIC MODULUS= 29000000. LBF/SQ IN.

70 DEFLECTION REFERENCE IS AT -13.200

71
 72

73 THE MAXIMUM BENDING MOMENT IS 9089.78 LBF-FT AND OCCURS AT -0.56

74 WHICH HAS THE SHEAR FORCE OF 9.22 LBF.

75
 76

DEFLECTION
 FROM TANG.
 THRU DEFLE

79	DISTANCE	SHEAR FOR	SHEAR STR	BENDING MOM	DEFLECTION
80	(FEET)	(LBF)	(LBF/SQIN)	(LBF-FT)	REFERENCE
81					(INCHES)
81	13.600	0.0	0.0	0.0	0.7307
82	13.599	0.0	0.0	0.0	0.7307
83	13.000	0.0	0.0	0.0	0.6984
84	12.000	0.0	0.0	0.0	0.6446
85	11.000	11.2	1.7	2.2	0.5907
86	10.000	80.0	12.4	42.7	0.5369
87	9.000	211.2	32.7	183.1	0.4831
88	8.000	405.0	62.6	486.0	0.4294
89	7.000	661.2	102.2	1013.9	0.3761
90	6.000	980.0	151.5	1829.3	0.3236
91	5.000	1327.0	205.1	2989.0	0.2724
92	4.000	1496.8	231.4	4418.6	0.2233
93	3.697	1506.6	232.9	4874.6	0.2090
94	3.000	1460.1	225.7	5913.1	0.1774
95	2.000	1248.1	192.9	7280.8	0.1356
96	1.000	879.1	135.9	8357.4	0.0990
97	0.000	355.2	54.9	8987.4	0.0682
98	-0.556	9.2	1.4	9089.8	0.0537
99	-1.000	-283.5	-43.8	9029.4	0.0436
100	-2.000	-997.0	-154.1	8395.4	0.0254
101	-3.000	-1648.5	-254.8	7047.1	0.0131
102	-4.000	-1957.5	-302.6	5214.8	0.0056
103	-4.379	-1982.9	-306.5	4466.2	0.0038
104	-4.381	-1982.9	-306.5	4462.2	0.0038
105	-5.000	-1915.4	-296.0	3249.1	0.0018
106	-6.000	-1522.3	-235.3	1500.9	0.0004
107	-7.000	-778.2	-120.3	321.4	0.0000
108	-7.740	-2.0	-0.3	21.1	0.0000
109	-7.742	0.0	0.0	0.0	0.0000
110	-8.000	0.0	0.0	0.0	0.0000
111	-9.000	0.0	0.0	0.0	0.0000
112	-10.000	0.0	0.0	0.0	0.0000
113	-11.000	0.0	0.0	0.0	0.0000
114	-12.000	0.0	0.0	0.0	0.0000
115	-13.000	0.0	0.0	0.0	0.0000

11.7kai

116 -13.199 0.0 0.0 0.0 0.0000
117 -13.200 0.0 0.0 0.0 0.0000

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119

1. *RUN COMPLETED*

122

EOT..

LIST Q58902

1
2 BEAMS (SHEAR, MOMENT, DEFLECTION)

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4
5 17TH STR.-Q5890B-SWL=11.6-S CASE-FS=1.5
6 =1.

7
8 THE REFERENCE SYSTEM SELECTED DEFINES POSITIVE FORCES AS TO THE LEFT
9 INCREASING MEMBER COORDINATES AS UPWARD, AND POSITIVE MOMENTS
10 AS COUNTERCLOCKWISE.

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13 THE MAXIMUM DEFLECTION IS 1.83 INCHES AND OCCURS AT MEMBER COORDINATE
14 13.60 FT.

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18 Z-22 HAS BEEN GIVEN TO SUPPORT THE LOAD SYSTEM.
19
20 THE WEIGHT OF THIS VERTICAL MEMBER HAS BEEN NEGLECTED.

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23 CALCULATED EXTERNAL LOADS

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25 DISTANCE FROM TYPE OF MAGNITUDE OF
26 REFERENCE(FT) LOAD LOAD
27
28 -13.54 POINT LD 348.15 LBF
29 -13.54 COUPLE 43.92 LBF-FT

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31
32 INPUTTED LOADS

33
34 DISTANCE FROM TYPE OF MAGNITUDE OF
35 REFERENCE(FT) LOAD LOAD
36
37 11.60 CONTN LD 0.00 LBF/SQ FT
38 10.60 CONTN LD 62.50 LBF/SQ FT
39 9.60 CONTN LD 125.00 LBF/SQ FT
40 8.60 CONTN LD 187.50 LBF/SQ FT
41 7.60 CONTN LD 250.00 LBF/SQ FT
42 6.60 CONTN LD 312.50 LBF/SQ FT
43 5.60 CONTN LD 375.00 LBF/SQ FT
44 5.50 CONTN LD 381.25 LBF/SQ FT
45 5.50 CONTN LD 381.25 LBF/SQ FT
46 4.50 CONTN LD 233.95 LBF/SQ FT
47
47 3.50 CONTN LD 86.65 LBF/SQ FT
48 3.50 CONTN LD 86.65 LBF/SQ FT

49	2.76	CONTN LD	0.00	LBF/SQ FT
50	2.50	CONTN LD	-30.93	LBF/SQ FT
51	2.50	CONTN LD	-30.93	LBF/SQ FT
52	1.50	CONTN LD	-125.35	LBF/SQ FT
53	0.50	CONTN LD	-219.76	LBF/SQ FT
54	0.00	CONTN LD	-266.97	LBF/SQ FT
55	0.00	CONTN LD	-266.97	LBF/SQ FT
56	-1.00	CONTN LD	-314.62	LBF/SQ FT
57	-2.00	CONTN LD	-362.26	LBF/SQ FT
58	-3.00	CONTN LD	-409.90	LBF/SQ FT
59	-4.00	CONTN LD	-457.55	LBF/SQ FT
60	-5.00	CONTN LD	-459.66	LBF/SQ FT
61	-6.00	CONTN LD	-439.19	LBF/SQ FT
62	-7.00	CONTN LD	-418.71	LBF/SQ FT
63	-7.91	CONTN LD	-400.17	LBF/SQ FT
64	-9.45	CONTN LD	0.00	LBF/SQ FT
65	-13.54	CONTN LD	1063.86	LBF/SQ FT
66	-13.54	CONTN LD	0.00	LBF/SQ FT

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Z-22 PROPERTIES ARE AS FOLLOWS.

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MOMENT OF INERTIA= 84.38 IN. TO THE 4TH PER FOOT OF WALL
 CROSS SECTIONAL AREA= ~~6.47~~ SQ IN. *1.84*
 ELASTIC MODULUS= 29000000. LBF/SQ IN.
 DEFLECTION REFERENCE IS AT -13.200

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THE MAXIMUM BENDING MOMENT IS 13244.47 LBF-FT AND OCCURS AT -3.62
 WHICH HAS THE SHEAR FORCE OF 5.59 LBF.

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DEFLECTION
FROM TANG.
THRU DEFLE
REFERENCE

DISTANCE (FEET)	SHEAR FOR (LBF)	SHEAR STR (LBF/SQIN)	BENDING MOM (LBF-FT)	DEFLECTION FROM TANG. THRU DEFLE REFERENCE (INCHES)
13.600	0.0	0.0	0.0	1.8271
13.599	0.0	0.0	0.0	1.8271
13.000	0.0	0.0	0.0	1.7612
12.000	0.0	0.0	0.0	1.6511
11.000	11.2	1.7	2.2	1.5410
10.000	80.0	12.4	42.7	1.4309
9.000	211.2	32.7	183.1	1.3209
8.000	405.0	62.6	486.0	1.2110
7.000	661.2	102.2	1013.9	1.1014
6.000	980.0	151.5	1829.3	0.9927
5.000	1335.0	206.3	2990.4	0.8852
4.000	1569.0	242.5	4454.7	0.7799
3.000	1659.3	256.5	6079.8	0.6778
2.763	1662.6	257.0	6473.5	0.6542
2.000	1631.3	252.1	7734.0	0.5799
1.000	1505.9	232.8	9310.5	0.4876
0.000	1286.2	198.8	10714.4	0.4017
-1.000	995.4	153.8	11859.2	0.3234
-2.000	656.9	101.5	12689.3	0.2535
-3.000	270.9	41.9	13157.2	0.1924
-3.625	5.6	0.9	13244.5	0.1590

107	-4.000	-162.9	-25.2	13215.2	0.1407
108	-5.000	-621.5	-96.1	12823.2	0.0982
109	-6.000	-1070.9	-165.5	11975.3	0.0647
110	-7.000	-1499.8	-231.8	10688.2	0.0396
111	-8.000	-1907.2	-294.8	8982.5	0.0220
112	-9.000	-2152.9	-332.7	6930.8	0.0107
113	-9.445	-2178.7	-336.7	5965.7	0.0073
114	-9.447	-2178.7	-336.7	5961.4	0.0073
115	-10.000	-2138.8	-330.6	4763.3	0.0043
116	-11.000	-1864.9	-288.2	2739.8	0.0012
117	-12.000	-1331.3	-205.8	1120.1	0.0002
118	-13.000	-538.0	-83.2	163.8	0.0000
119	-13.199	-349.1	-54.0	75.3	0.0000
120	-13.200	-348.2	-53.8	75.0	0.0000
121					
122					
123					
124	*RUN COMPLETED*				
125					
EOT..					

11.7 ksi

LIST Q58903

1
2 BEAMS (SHEAR, MOMENT, DEFLECTION)

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5 17TH STR. -Q5890D-SWL=13.6-Q CASE-FS=1.5
6 =1.
7

8 THE REFERENCE SYSTEM SELECTED DEFINES POSITIVE FORCES AS TO THE LEFT
9 INCREASING MEMBER COORDINATES AS UPWARD, AND POSITIVE MOMENTS
10 AS COUNTERCLOCKWISE.

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13 THE MAXIMUM DEFLECTION IS 0.58 INCHES AND OCCURS AT MEMBER COORDINATE
14 13.60 FT.

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18 Z-22 HAS BEEN GIVEN TO SUPPORT THE LOAD SYSTEM.
19
20 THE WEIGHT OF THIS VERTICAL MEMBER HAS BEEN NEGLECTED.
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23 CALCULATED EXTERNAL LOADS

24			
25	DISTANCE FROM	TYPE OF	MAGNITUDE OF
26	REFERENCE(FT)	LOAD	LOAD
27			
28	-4.77	POINT LD	0.00 LBF
29	-4.77	COUPLE	-48.35 LBF-FT
30			

31
32 INPUTTED LOADS

33			
34	DISTANCE FROM	TYPE OF	MAGNITUDE OF
35	REFERENCE(FT)	LOAD	LOAD
36			

37	13.60	CONTN LD	0.00	LBF/SQ FT
38	12.60	CONTN LD	62.50	LBF/SQ FT
39	11.60	CONTN LD	125.00	LBF/SQ FT
40	10.60	CONTN LD	187.50	LBF/SQ FT
41	9.60	CONTN LD	250.00	LBF/SQ FT
42	8.60	CONTN LD	312.50	LBF/SQ FT
43	7.60	CONTN LD	375.00	LBF/SQ FT
44	6.60	CONTN LD	437.50	LBF/SQ FT
45	5.60	CONTN LD	500.00	LBF/SQ FT
46	5.50	CONTN LD	506.25	LBF/SQ FT

47	5.50	CONTN LD	0.00	LBF/SQ FT
48	5.50	CONTN LD	-493.75	LBF/SQ FT
49	4.50	CONTN LD	-551.25	LBF/SQ FT
50	3.50	CONTN LD	-608.75	LBF/SQ FT
51	3.50	CONTN LD	-608.75	LBF/SQ FT
52	2.50	CONTN LD	-649.25	LBF/SQ FT
53	2.50	CONTN LD	-649.25	LBF/SQ FT
54	1.50	CONTN LD	-689.75	LBF/SQ FT
55	0.50	CONTN LD	-730.25	LBF/SQ FT
56	0.00	CONTN LD	-750.50	LBF/SQ FT
57	0.00	CONTN LD	-750.50	LBF/SQ FT
58	-0.24	CONTN LD	-760.10	LBF/SQ FT
59	-1.78	CONTN LD	0.00	LBF/SQ FT
60	-4.77	CONTN LD	1470.75	LBF/SQ FT
61	-4.77	CONTN LD	0.00	LBF/SQ FT

64 Z-22 PROPERTIES ARE AS FOLLOWS.

66 MOMENT OF INERTIA= 84.38 IN. TO THE 4TH PER FOOT OF WALL
66 CROSS SECTIONAL AREA= ~~6.47~~ SQ IN. *1.84*
69 ELASTIC MODULUS= 29000000. LBF/SQ IN.

70 DEFLECTION REFERENCE IS AT -13.200

73 THE MAXIMUM BENDING MOMENT IS 9286.48 LBF-FT AND OCCURS AT 2.02
74 WHICH HAS THE SHEAR FORCE OF 0.33 LBF.

79	DISTANCE	SHEAR FOR	SHEAR STR	BENDING MOM	DEFLECTION
80	(FEET)	(LBF)	(LBF/SQIN)	(LBF-FT)	FROM TANG.
					THRU DEFLE
					REFERENCE
					(INCHES)
81	13.600	0.0	0.0	0.0	0.5763
82	13.599	0.0	0.0	0.0	0.5763
83	13.000	11.2	1.7	2.2	0.5454
84	12.000	80.0	12.4	42.7	0.4938
85	11.000	211.2	32.7	183.1	0.4423
86	10.000	405.0	62.6	486.0	0.3909
87	9.000	661.2	102.2	1013.9	0.3399
88	8.000	980.0	151.5	1829.3	0.2896
89	7.000	1361.2	210.4	2994.7	0.2407
90	6.000	1805.0	279.0	4572.7	0.1939
91	5.500	2050.3	316.9	5535.8	0.1717
92	5.000	1796.2	277.6	6498.1	0.1504
93	4.000	1245.0	192.4	8023.5	0.1114

94	3.000	638.4	98.7	8969.3	0.0781
95	2.017	0.3	0.1	9286.5	0.0514
96	2.000	-10.9	-1.7	9286.4	0.0510
97	1.000	-700.6	-108.3	8934.0	0.0303
98	0.000	-1430.9	-221.2	7871.6	0.0159
99	-1.000	-2046.5	-316.3	6098.2	0.0070
100	-1.780	-2196.6	-339.5	4424.6	0.0031
101	-1.782	-2196.6	-339.5	4420.2	0.0031
102	-2.000	-2184.7	-337.7	3941.6	0.0024
103	-3.000	-1830.5	-282.9	1892.9	0.0005
104	-4.000	-984.0	-152.1	444.6	0.0000
105	-4.767	-1.5	-0.2	48.3	0.0000
106	-4.769	0.0	0.0	0.0	0.0000
107	-5.000	0.0	0.0	0.0	0.0000
108	-6.000	0.0	0.0	0.0	0.0000
109	-7.000	0.0	0.0	0.0	0.0000
110	-8.000	0.0	0.0	0.0	0.0000
111	-9.000	0.0	0.0	0.0	0.0000
112	-10.000	0.0	0.0	0.0	0.0000
113	-11.000	0.0	0.0	0.0	0.0000
114	-12.000	0.0	0.0	0.0	0.0000
115	-13.000	0.0	0.0	0.0	0.0000
116	-13.199	0.0	0.0	0.0	0.0000
117	-13.200	0.0	0.0	0.0	0.0000

11.7 ksi

121 *RUN COMPLETED*

122

EOT..

L T Q58904

1

2

BEAMS (SHEAR, MOMENT, DEFLECTION)

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5 17TH STR.-Q5890F-SWL=0.0-S CASE-FS=1.5

6 TA

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8 THE REFERENCE SYSTEM SELECTED DEFINES POSITIVE FORCES AS TO THE LEFT
 9 INCREASING MEMBER COORDINATES AS UPWARD, AND POSITIVE MOMENTS
 10 AS COUNTERCLOCKWISE.

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13 THE MAXIMUM DEFLECTION IS 0.13 INCHES AND OCCURS AT MEMBER COORDINATE
 14 13.60 FT.

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18 Z-22 HAS BEEN GIVEN TO SUPPORT THE LOAD SYSTEM.

19

20 THE WEIGHT OF THIS VERTICAL MEMBER HAS BEEN NEGLECTED.

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23 CALCULATED EXTERNAL LOADS

24

25 2. DISTANCE FROM TYPE OF MAGNITUDE OF
 26 REFERENCE(FT) LOAD LOAD

27

28 -6.94 POINT LD 0.29 LBF
 29 -6.94 COUPLE 11.00 LBF-FT

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INPUTTED LOADS

3	DISTANCE FROM	TYPE OF	MAGNITUDE OF
35	REFERENCE(FT)	LOAD	LOAD
36			
37	5.50	CONTN LD	0.00 LBF/SQ FT
38	4.50	CONTN LD	68.64 LBF/SQ FT
39	3.50	CONTN LD	137.27 LBF/SQ FT
40	3.50	CONTN LD	137.27 LBF/SQ FT
41	2.50	CONTN LD	196.18 LBF/SQ FT
42	2.50	CONTN LD	196.18 LBF/SQ FT
43	1.50	CONTN LD	75.02 LBF/SQ FT
44	0.88	CONTN LD	0.00 LBF/SQ FT
45	0.50	CONTN LD	-46.15 LBF/SQ FT
46	0.00	CONTN LD	-106.73 LBF/SQ FT
47	0.00	CONTN LD	-106.73 LBF/SQ FT
48	-1.00	CONTN LD	-154.38 LBF/SQ FT
49	-2.00	CONTN LD	-202.02 LBF/SQ FT
50	-3.00	CONTN LD	-249.66 LBF/SQ FT
51	-4.00	CONTN LD	-297.31 LBF/SQ FT
52	-4.97	CONTN LD	-343.54 LBF/SQ FT
53	-5.46	CONTN LD	0.00 LBF/SQ FT
54	-6.94	CONTN LD	1055.47 LBF/SQ FT
55	-6.94	CONTN LD	0.00 LBF/SQ FT

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Z-22 PROPERTIES ARE AS FOLLOWS.

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61 MOMENT OF INERTIA= 84.38 IN. TO THE 4TH PER FOOT OF WALL
 62 CROSS SECTIONAL AREA= ~~6.47~~ SQ IN. *1.84*
 63 ELASTIC MODULUS= 29000000. LBF/SQ IN.
 64 DEFLECTION REFERENCE IS AT -13.200

65
 66

67 THE MAXIMUM BENDING MOMENT IS 1946.62 LBF-FT AND OCCURS AT -2.47
 68 WHICH HAS THE SHEAR FORCE OF 5.94 LBF.

69

73	DISTANCE	SHEAR FOR	SHEAR STR	BENDING MOM	DEFLECTION
74	(FEET)	(LBF)	(LBF/SQIN)	(LBF-FT)	FROM TANG. THRU DEFLE REFERENCE (INCHES)
75	13.600	0.0	0.0	0.0	0.1284
76	13.599	0.0	0.0	0.0	0.1284
77	13.000	0.0	0.0	0.0	0.1235
78	12.000	0.0	0.0	0.0	0.1152
79	11.000	0.0	0.0	0.0	0.1070
80	10.000	0.0	0.0	0.0	0.0987
81	9.000	0.0	0.0	0.0	0.0905
82	8.000	0.0	0.0	0.0	0.0823
8	7.000	0.0	0.0	0.0	0.0740
84	6.000	0.0	0.0	0.0	0.0658
85	5.000	8.6	1.3	1.4	0.0575

86	4.000	77.2	11.9	38.6	0.0493
87	3.000	213.3	33.0	178.5	0.0411
88	2.000	386.9	59.8	481.2	0.0330
89	1.000	462.0	71.4	915.8	0.0253
90	0.881	462.8	71.5	970.9	0.0244
91	0.000	415.8	64.3	1364.8	0.0183
92	-1.000	285.3	44.1	1719.3	0.0122
93	-2.000	107.1	16.5	1919.4	0.0073
94	-2.474	5.9	0.9	1946.6	0.0054
95	-3.000	-118.8	-18.4	1917.5	0.0037
96	-4.000	-392.3	-60.6	1666.0	0.0015
97	-5.000	-713.1	-110.2	1117.1	0.0004
98	-5.454	-786.5	-121.6	771.0	0.0002
99	-5.456	-786.5	-121.6	769.4	0.0002
100	-6.000	-681.3	-105.3	360.9	0.0000
101	-6.944	-1.3	-0.2	-11.0	0.0000
102	-6.946	0.0	0.0	0.0	0.0000
103	-7.000	0.0	0.0	0.0	0.0000
104	-8.000	0.0	0.0	0.0	0.0000
105	-9.000	0.0	0.0	0.0	0.0000
106	-10.000	0.0	0.0	0.0	0.0000
107	-11.000	0.0	0.0	0.0	0.0000
108	-12.000	0.0	0.0	0.0	0.0000
109	-13.000	0.0	0.0	0.0	0.0000
110	-13.199	0.0	0.0	0.0	0.0000
111	-13.200	0.0	0.0	0.0	0.0000
112					
113					
114					
115	*RUN COMPLETED*				

11.7 kai