

ORLEANS
(AND JEFFERSON)
SIDE

Q FILES

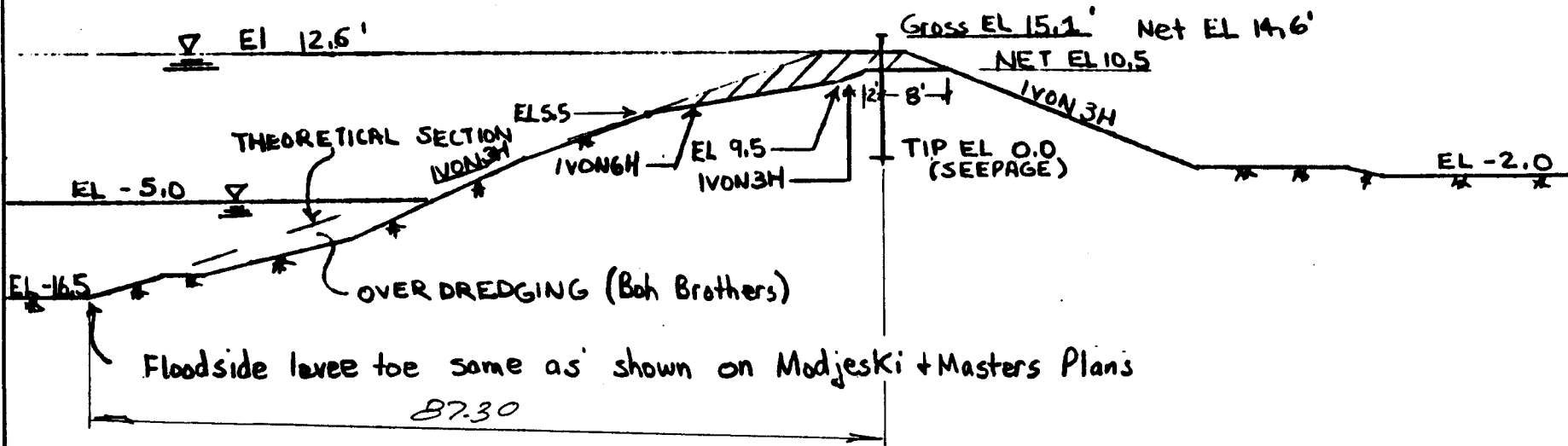
STA 663+00

TO

STA 670+00

PROJECT	17th St. Outfall Canal	PAGE	OF	COMPUTED BY	DATE
SUBJECT	Jefferson Side Sta 663+00 To 670+00	CHECKED BY		BY	7/24/87

STA 663+00 TO STA 670+00
JEFFERSON SIDE



Scale: 1"=20'

Elevations in Feet N.G.V.D.

Q FILES	FS	SWL	CASE
Q 670JA	1.0	12.6	S
Q 670JB	1.5	12.6	S
Q 670JD	1.0	14.6	Q

1 I 067000

1
2
3
4

BEAMS (SHEAR, MOMENT, DEFLECTION)

5 17TH STR. -06700B-SWL=12.6-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.

11
12
13 THE MAXIMUM DEFLECTION IS 0.00 INCHES AND OCCURS AT MEMBER COORDINATE
14 14.60 FT.

15
16
17
18 Z-22 HAS BEEN GIVEN TO SUPPORT THE LOAD SYSTEM.
19
20 THE WEIGHT OF THIS VERTICAL MEMBER HAS BEEN NEGLECTED.

21
22
23 CALCULATED EXTERNAL LOADS

24	25	26	27
DISTANCE FROM	TYPE OF	MAGNITUDE OF	
REFERENCE(FT)	LOAD	LOAD	
28 8.37	POINT LD	-0.10 LBF	
29 8.37	COUPLE	-6.04 LBF-FT	

30
31
32 INPUTTED LOADS

34	35	36	37
DISTANCE FROM	TYPE OF	MAGNITUDE OF	
REFERENCE(FT)	LOAD	LOAD	
37 12.60	CONTN LD	0.00 LBF/SQ FT	
38 11.60	CONTN LD	62.50 LBF/SQ FT	
39 11.50	CONTN LD	68.75 LBF/SQ FT	
40 11.50	CONTN LD	68.75 LBF/SQ FT	
41 10.86	CONTN LD	0.00 LBF/SQ FT	
42 10.50	CONTN LD	-38.64 LBF/SQ FT	
43 9.50	CONTN LD	-146.03 LBF/SQ FT	
44 9.32	CONTN LD	-166.11 LBF/SQ FT	
45 8.99	CONTN LD	0.00 LBF/SQ FT	
46 8.37	CONTN LD	309.74 LBF/SQ FT	
47 8.37	CONTN LD	0.00 LBF/SQ FT	

48
49
50 Z-22 PROPERTIES ARE AS FOLLOWS.

51
52
53 MOMENT OF INERTIA= 84.38 IN. TO THE 4TH PER FOOT OF WALL
54 CROSS SECTIONAL AREA= 1.84 SQ IN.
55 ELASTIC MODULUS= 29000000. LBF/SQ IN.
56 DEFLECTION REFERENCE IS AT 7.000

57

58
 59 THE MAXIMUM BENDING MOMENT IS 89.53 LBF-FT AND OCCURS AT 9.83
 60 WHICH HAS THE SHEAR FORCE OF 2.43 LBF.

61						DEFLECTION
62						FROM TANG.
63						THRU DEFLE
64						REFERENCE
65	DISTANCE	SHEAR FOR	SHEAR STR	BENDING MOM		
66	(FEET)	(LBF)	(LBF/SQIN)	(LBF-FT)		(INCHES)
67	14.600	0.0	0.0	0.0		0.0006
68	14.599	0.0	0.0	0.0		0.0006
69	14.000	0.0	0.0	0.0		0.0005
70	13.000	0.0	0.0	0.0		0.0004
71	12.000	11.2	6.1	2.2		0.0002
72	11.000	58.8	31.9	39.1		0.0001
73	10.860	59.8	32.5	47.5		0.0001
74	10.000	20.1	10.9	87.5		0.0000
75	9.826	2.4	1.3	89.5		0.0000
76	9.000	-95.5	-51.9	46.8		0.0000
77	8.986	-95.6	-51.9	45.5		0.0000
78	8.984	-95.6	-51.9	45.3		0.0000
79	8.369	-0.2	-0.1	6.0		0.0000
80	8.367	0.0	0.0	0.0		0.0000
81	8.000	0.0	0.0	0.0		0.0000
82	7.001	0.0	0.0	0.0		0.0000
83	7.000	0.0	0.0	0.0		0.0000

84
 85
 86
 87 *RUN COMPLETED*

88
 E...
 LI DRW22AZ
 1 100 1 14.6 7 1 7 0 -1
 2 200 PZ-22
 3 300 29000000 1.84 84.38
 EOF..
 EOT..