

DETAIL A



BAR d







DESIGN SPECIFICATIONS

2002 AASHTO Standard Specification for Highway Bridges, 17th edition.

DESIGN STRESSES

fy = 60,000 psi f'c = 3,500 psi Allowable Net Soil Bearing Pressure = 2,400 psf Minimum

GENERAL NOTES

Reinforcement bars shall conform to requirements of ASTM A706, Gr 60. See Special Provisions.

Place reinforcing bars to provide 2 inches clear concrete cover except where shown on drawings.

Reinforcement bars designated (E) shall be epoxy coated.

All construction joints shall be bonded.

Provide 1" chamfer on all exposed edges, except where shown on drawings.

Place geotechnical fabric where shown (to be included in the work for FRENCH DRAIN, CA-18).

Additional undercutting beyond that shown on drawings is not anticipated, but if required to achieve the minimum allowable net soil bearing pressure, it will be paid for as REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. Replacement material shall be paid for as POROUS GRANULAR EMBANKMENT.

Grating shall include pipes, plates, expansion bolts, and all other hardware as shown and shall be included with the contract unit price per Cu. Yd. for CONCRETE STRUCTURES.

Bolts, Nuts, and Washers shall be in accordance with Article 1006.08 of the Standard Specifications and shall be galvanized.

Steel Plates shall conform to AASHTO M-183 and shall be galvanized conforming to AASHTO M-111.

Steel Pipes shall conform to A.S.T.M. A-53 (Type E or S) Grade B. Schedule 40, and shall be galvanized conforming to A.S.T.M. A-120. Contractor shall verify pipe length.

Design scour elevation at downstream end is 693.15'.

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			[1] A. M. Martin, Phys. Rev. Lett. 79, 100 (1997).			

Bar	No.	Size	Length	Shape						
	a da ser en esta									
Ø	24	#5	5'-4''							
C	64	#5	3'-4''							
c1.	32	#5	4'-8''							
d	88	#4	4'-6''							
			ante di							
h	36	#4	14'-4''							
hl	32	#4	5'-6''							
h2	12	#4	21'-8''							
	a si ka sa sa s									
V	54	#4	6'-6''							
v1 -	34	#4	. 7'-6''							
v2	33	#5	7'-6''							
v3 (E)	33	#5	5'-8''							
and the last										
W	17	#4	14'-4''							
w1	10	#5	21'-8''							
Z	18	#4	5'-2''							
z1	18	#4	6'-6''							
z2	27	#5	10'-0''							
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Removal an	nd Disposal of L	Cu Yd.	3							
	inular Embankme	Cu Yd.	3							
Concrete S	Structures	Cu Yd.	24.4							
Reinforcem	ient Bars	Pound	2520							
Reinforcem	ient Bars, Epox	Pound	200							
French Dro		Cu Yd.	5.0							

BILL OF MATERIAL

SHEET 4 OF 5