

**TOTAL BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h50(E)	6	#15	4.32 m	
h502(E)	12	#15	3.30 m	
u50(E)	17	#15	1.17 m	
u502(E)	24	#15	1.12 m	
v50(E)	82	#15	0.74 m	
Concrete Structures		Cu. M	1.4	
Reinforcement Bars, Epoxy Coated		kg	280	

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

Illinois Department of Transportation Standard Specifications for Road & Bridge Construction, adopted January 1, 2002 and Supplemental Specifications and Recurring Special Provisions adopted January 1, 2004.

**GENERAL NOTES:**

- Reinforcement bars shall conform to the requirements of AASHTO M 31M, M 42M, or M 53M Grade 400.
- All dimensions are in millimeters (mm) except as noted.
- Bars designated (E) shall be epoxy coated.
- All edges shall have standard 20 mm chamfers, except as noted.
- Drill and grout v50(E) bars into existing headwall and wingwall. Cost included with "Concrete Structures".
- All construction joints shall be bonded.

**LEGEND**

E.F. = Each Face

**DESIGN STRESSES**

$f'c = 24 \text{ MPa}$

$fy = 400 \text{ MPa (Reinf.)}$

Signature:   
 Current Date: 11/5/04  
 License Expires: 11/30/06



"I certify that to the best of my knowledge, information and belief, this culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current 'AASHTO Standard Specifications for Highway Bridges'."

REVISIONS		NAME	DATE
NO.	DESCRIPTION		

1701 GOLF ROAD, SUITE 1000  
ROLLING MEADOWS, IL 60008  
TEL (847) 228-0707  
FAX (847) 228-1115

VILLAGE OF ADDISON  
SALT CREEK GREENWAY TRAIL  
CULVERT HEADWALL EXT, STA. 11+128.38  
PLAN, ELEVATION & DETAILS

DATE: 11/03/04  
DESIGNED BY: MDS

DRAWN BY: MDS  
CHECKED BY: GAT

