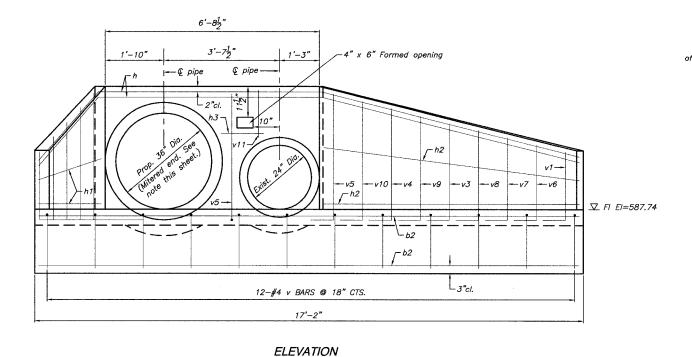


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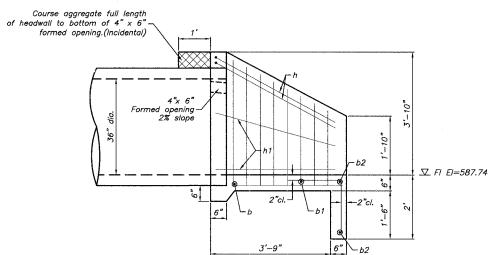


SCALE: 3/4" =1'-0"

--**→** "A"

\_b2

→ "A"



## SECTION A-A SCALE: 3/4" =1'-0"

# 1'-8" \*\*\* 7'-0"

# Bar v

Bar v1 to v10

9-#4 pois @ 12" cts

# Barh Bent in field

### Notes:

- 2" clearance to be maintained throughout unless otherwise noted.
- 2. Class SI concrete to be used throughout.
- 3. Chamfer all exposed edges 34" minimum.
- Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.
- End of 36" dia. pipe to be manufactured with mitered end so as to be flush with face of headwall.
- Geotechnical filter fabric shall be provided at the 4" x 6" formed opening in accordance with articles 502.01 and 503.12 of the Standard Specifications.

# Bill of Materials

BIII ot Materiais								
Bar	No.	Size	Length		Shape			
b	1	#4		8'-8"				
b1	1	#4	1	4'-0"				
b2	2	#4	16'-10"					
h	2	#4	. 4	20'-7"		$\overline{}$		
h1	2	#4		4'-2"				
h2	2	#4		8'-9"				
h3	1	#4	1'-3"					
v	12	#4		3'-4"				
v1	2	#4		3'9"				
v2	1	#4	4'-3"					
v3	2	#4	4'-8"					
v4	2	#4	5'-2"					
v5	3	#4	5'-7"					
v6	1	#4	4'-0"					
v7	1	#4	4'-2"					
v8	1	#4	4'-5"					
v9	1	#4	4'-11"					
v10	1	#4	5'-4"					
v11	1	#4	1'-5"					
CLASS SI CONCRETE*				CU.YDS.	2.5			
REINFORCEMENT BARS*			,	POUNDS	158			

\* THESE ITEMS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONCRETE HEADWALLS AND CONFORM TO THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS.

ROBINSON E	REVISIONS			
AND PROFESSI 17000 SOUTH PARK AVENU (708) 331-6700	RED PROFESSIONAL ENGINEERS ONAL LAND SURVEYORS E SOUTH HOLLAND, ILLINOIS 60473 FAX (708) 331-3826 (RIGHT 2004	No.	Date	Remarks
115TH STREE STORM SEWER OU	UE RECONSTRUCTION T TO 111TH STREET TFALL-HEADWALL DETAIL A 00+41			
WORTH	ILLINOIS	H		-
Drawn by: EC, AG	Date: 3/31/04			
Checked by: AJ	Scale: 3/4" = 1'-0"			
Shoot of	Project No. 02 162	1		

02162-HDWL-01

PLAN VIEW							
SCALE:	3/4"	=1'-0"					