

# DETAIL OF CONCRETE STEPS

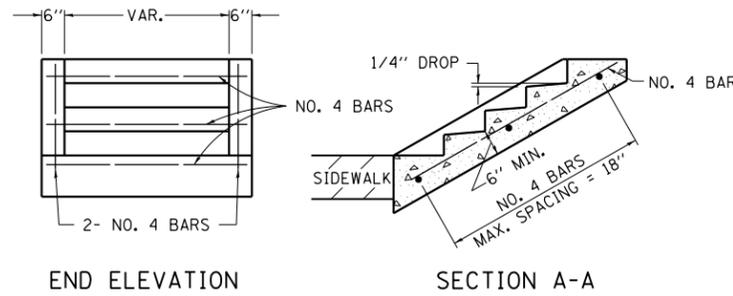


TABLE OF TREADS & RISERS

SLOPE	TREAD	RISER
1:2	12"	6"
1:3	15"	5"
1:4	17"	4 1/4"

WHERE SLOPES FALL BETWEEN THOSE SHOWN IN THE TABLE ABOVE, THE STAIR RAIL SHOULD FIT THE SLOPE AND THE TREAD IN INCHES x THE RISER IN INCHES SHOULD BE BETWEEN 72 AND 78.

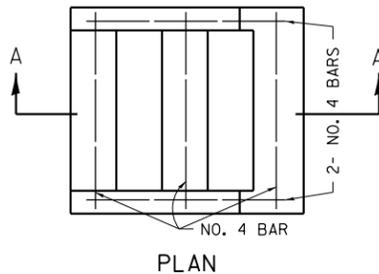
**EXAMPLE:**

FOR A 1:4 SLOPE USE  $y = \text{RISER HEIGHT}$   $4y^2 = 75''$ .  
SOLVING  $y^2 = \frac{75''}{4}$ ,  $y = 4.3''$  (USE 4 1/4'' FOR CONVENIENCE.)  
TREAD WOULD THEN BE  $4 \frac{1}{4}'' \times 4 = 17''$

COST OF REINFORCEMENT BARS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LBS FOR REINFORCEMENT BARS.

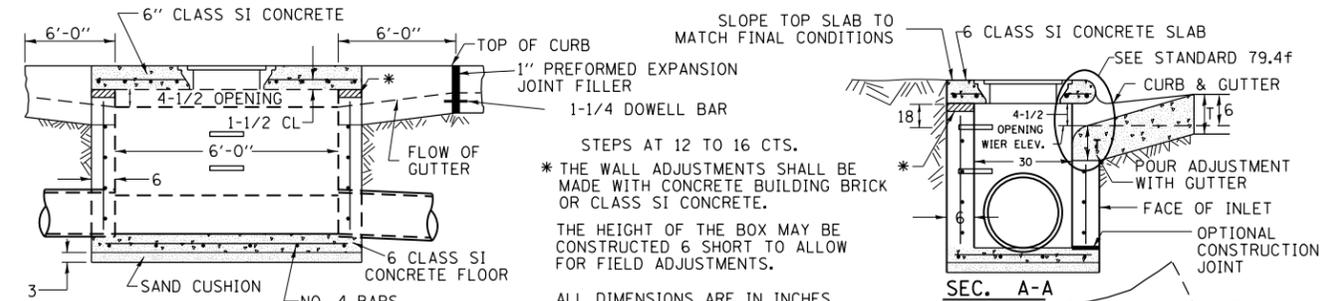
CLASS SI CONCRETE SHALL BE USED THROUGHOUT, WHICH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CLASS SI CONCRETE (MISCELLANEOUS).

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



REVISED - 10-3-11

# INLET SPECIAL NO. 5



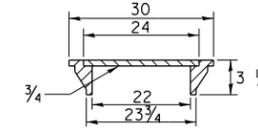
FRONT VIEW

**NOTES**

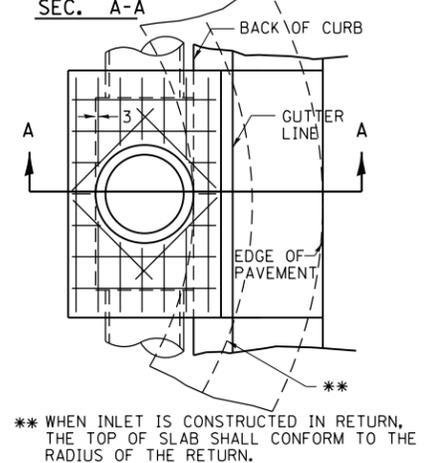
SEE STANDARD 602701 FOR DETAILS OF STEPS. 1" PREFORMED EXPANSION JOINTS AS SHOWN SHALL BE PROVIDED ON EACH SIDE OF INLET. CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS. REINFORCEMENT FOR INLET SPECIAL NO. 5 SHALL BE ACCORDING TO DISTRICT STANDARD 79.4g

STEPS SHALL BE OMITTED WHEN DEPTH OF INLET IS LESS THAN 5 FOOT. THE INLET SHALL BE CAST IN PLACE OR PRECAST. EXCEPT AS NOTED HEREON INLET SPECIAL NO. 5 SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS. THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL NO. 5 SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE FRAME, LID, REINFORCEMENT BARS, FLOOR AND TOP SLABS, CAST IRON STEPS (IF USED). THE CURB AND GUTTER WILL BE PAID FOR SEPARATELY AND WILL BE MEASURED THROUGH THE INLET. THE CURB AND GUTTER ADJACENT TO AND 6 FOOT ON EITHER SIDE OF THE INLET SHALL BE CONSTRUCTED AS SHOWN WITH NO ADDITIONAL COMPENSATION FOR THE TRANSITION. ALL PIPE UNDERDRAIN CONNECTIONS WHEN SPECIFIED SHALL BE DONE IN ACCORDANCE WITH ART. 601 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER (FOOT) FOR PIPE UNDERDRAINS (SPECIAL) OF THE DIAMETER SPECIFIED WHICH PRICE SHALL INCLUDE THE CA7 OR CA16 AND THE CONNECTION TO THE INLET.

LIGHT WEIGHT MANHOLE CASTING



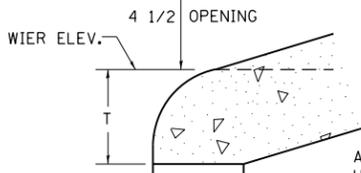
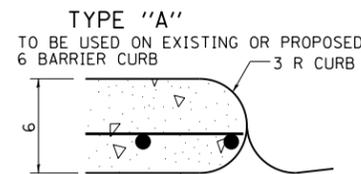
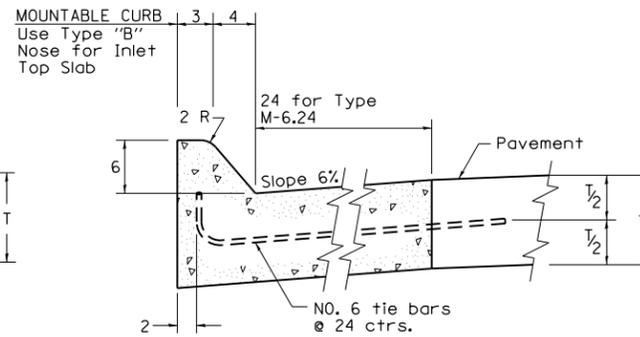
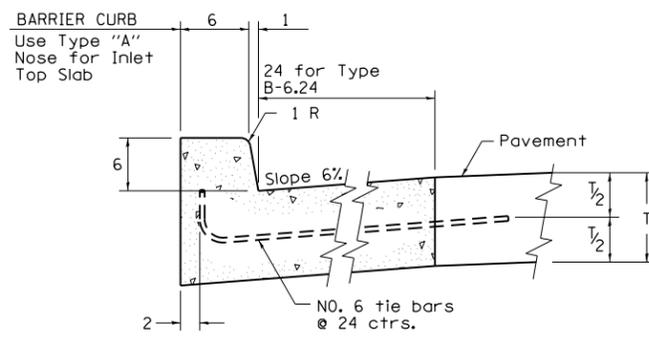
TOTAL WEIGHT 160 LBS.  
REVISED - 10-4-11



## DETAIL OF CONCRETE STEPS 71.4

## INLET SPECIAL NO. 5 79.4b

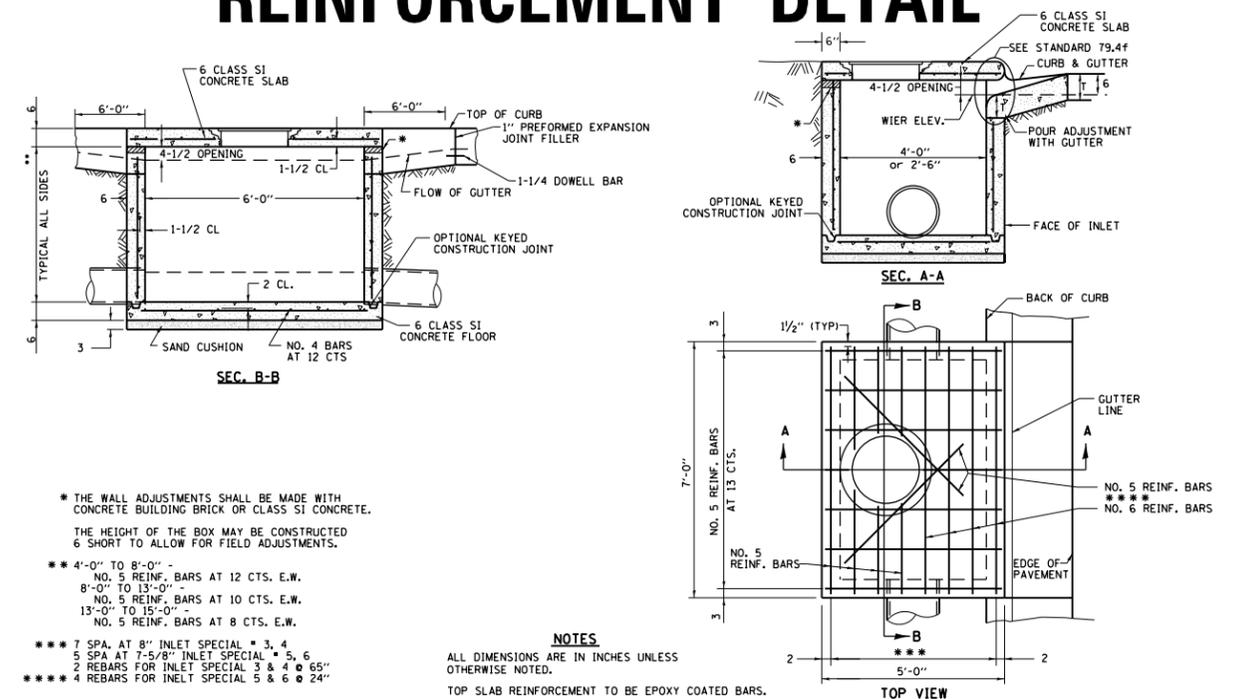
# NOSE TYPE FOR INLET TOP SLAB



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-5-11

# INLET SPECIAL NO. 3, 4, 5, 6 REINFORCEMENT DETAIL



\* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE. THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6 SHORT TO ALLOW FOR FIELD ADJUSTMENTS.  
\*\* 4'-0" TO 8'-0" - NO. 5 REINF. BARS AT 12 CTS. E.W.  
8'-0" TO 13'-0" - NO. 5 REINF. BARS AT 10 CTS. E.W.  
13'-0" TO 15'-0" - NO. 5 REINF. BARS AT 8 CTS. E.W.  
\*\*\* 7 SPA. AT 8" INLET SPECIAL \* 3, 4  
5 SPA AT 7-5/8" INLET SPECIAL \* 5, 6  
2 REBARS FOR INLET SPECIAL 3 & 4 @ 65"  
\*\*\*\* 4 REBARS FOR INLET SPECIAL 5 & 6 @ 24"

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.  
TOP SLAB REINFORCEMENT TO BE EPOXY COATED BARS.

## NOSE TYPE FOR INLET TOP SLAB 79.4f

## INLET SPECIAL NO. 3, 4, 5, 6 REINFORCEMENT DETAIL 79.4g

REVISED - 10-5-11	REGION 2 / DISTRICT 2 STANDARD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -	SCALE: *SCALE*	SHEET NO. 2 OF 19 SHEETS	742	(32, 33) R-1	WINNEBAGO	705	566
REVISED -		STA. TO STA.	CONTRACT NO. 64821				
REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			