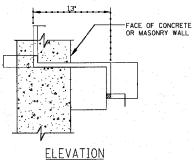


STANDARD MANHOLE BARREL

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

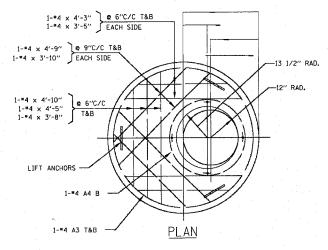
CHECKERED SURFACE <u>PLAN</u>

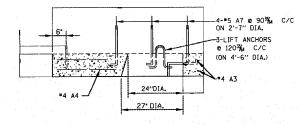


MANHOLE STEPS SCALE: 2"= 1'- 0"

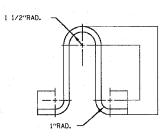
MATERIAL:

DUCTLE IRON GRADE 65-45-12 FULLY ANNEALED CONFORMING TO ASTM SPECIFICATIONS



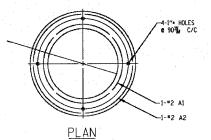


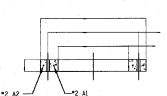
SECTION PRECAST TOP SLAB DETAIL SCALE: 3/4" = 1'-0"



LIFT ANCHOR DETAIL

MATERIAL: 5/8" DIA. x 2'-3"A-36 STEEL ROD GALVANIZED AFTER FABRICATION





SECTION PRECAST ADJUSTMENT RING DETAIL SCALE: 1" = 1'-0"

I .	THE BATT BETTER BETTER									
MARK	SIZE	LENGTH	TYPE	Α	В	R	-0.			
A1	*2	7'-6"	0	-		13 1/2"	l aff o			
A2	*2	9'-6"	0	-	-	17"	] ] ] ]	( B		
A3	#4	15'-0"	0	_ ·	-	29 1/2"		Ι.		
A4	*4	9'-3"	0	_	-	16 1/2"	<del>□-□'T-</del> □	0		
A5	#5	8'-9"	3	8'-9"	-	29 1/2"		•		
A7	<b>*</b> 5	2'-0"	0	6"	1'-6"	-				
	***************************************									

## NOTE:

9" THICK PRECAST CONCRETE RINGS WITH CAST IN PLACE RUNGS MAY BE USED IN PLACE OF CAST IN PLACE CONCRETE WHEN EXTENDING THE HEIGHT OF THE MANHOLE BARREL, ALL EXTENSION SHALL BE IN ONE PIECE AND IN INCREMENTS OF 12".

ALL JOINTS SHALL BE CLEANED, SQUARED AND GROUTED IN A MANNER TO PRECLUDE POSSIBILITY OF LEAKS AT JOINT.

THE PRECAST TOP SLAB SHALL BE REMOVED AND REPLACED AS REQUIRED.

ALL ELEMENTS OF THE MANHOLE DISTURBED OR DAMAGED DURING ALTERATION SHALL BE CORRECTED OR REPLACED TO MEET THE STANDARD HEREIN SHOWN AND SPECIFIED.

ALL CONCRETE SHALL BE CLASS "R".

ALL GROUT SHALL BE 1 PART CEMENT TO 3 PARTS SAND WITH MINIMUM WATER TO ACHIEVE A STIFF PLASTIC CONSISTANCY WITH ZERO SLUMP.

ALL WORKMANSHIP AND MATERIALS NOT SPECIFIED SHALL BE AS PER STANDARD PREPRINTED MWRDGC SPECIFICATIONS TITLED:
GENERAL SPECIFICATIONS - CONSTRUCTION CONTRACTS
GENERAL SPECIFICATIONS - SEWERS
GENERAL SPECIFICATIONS - CONCRETE

## PROCEDURE:

RE-BAR BENDING DETAILS

A) TO RAISE ELEVATION O" TO 8" MAX., ADD 4" THICK ADJUSTMENT RINGS AS DETAILED. INCREMENTS OF LESS THAN 4" SHALL BE OBTAINED BY HAND PACKING A DRY CEMENT GROUT OVER 100% OF THE BEARING AREA.

B) TO RAISE ELEVATION OVER 8" AND LESS THAN 12", REMOVE THE
4" ADJUSTMENT RING AND EXTEND THE 9" THICK MANHOLE BARREL
12" WITH CAST IN PLACE CONCRETE REINFORCED AS DETAILED
AND WITH LADDER RUNG AS DETAILED. TOP OF EXISTING CONCRETE
TO BE CLEANED AND ROUGHENED AND NEW CONCRETE PLACED IN A
MANNER TO INSURE BONDING AND NO LEXAGE. FOR INCREMENTS
BETWEEN 8" AND 12" PLACE GROUT FILLER AS IN (A) ABOVE.

C) TO RAISE ELEVATION 12" AND ABOVE, ADD TO 9" THICK MANHOLE BARREL ONLY IN INCREMENTS OF 12" WITH RUNGS AT 12" O.C. AS DESCRIBED IN (B), FOR INCREMENTS BETWEEN 12" ADD OR REMOVE 4" ADJUSTMENT RINGS AND CROUT FILLER AS DESCRIBED

D) TO LOWER ELEVATION O" TO 4", REMOVE 4" THICK ADJUSTMENT RING AND FILL INCREMENTS OF O" TO 4" WITH GROUT AS DESCRIBED IN (A).

D TO LOWER ELEVATION MORE THAN 4", REMOVE 9" THICK MANHOLE BARREL ONLY IN INCREMENTS OF 12" AND ADD OR REMOVE 4" THICK ADJUSTMENT RINGS AND GROUT AS REQUIRED AND AS DESCRIBED IN (A) AND (B).

REVISIONS			ILLINOIS DEPARTMENT OF TRANSPORTATION							
NAM	E	DATE	ILLINOIS DEPARTMENT O	I INMINSTORTA	ION					
			MWRDGC STANDAI PROCEDURE FOR							
			ELEVATION OF 48" DIA. STANDA							
				DATE	7/13/0					
				DRAWN BY	LTD					
			NOT TO SCALE	CHECKED BY	BJL					