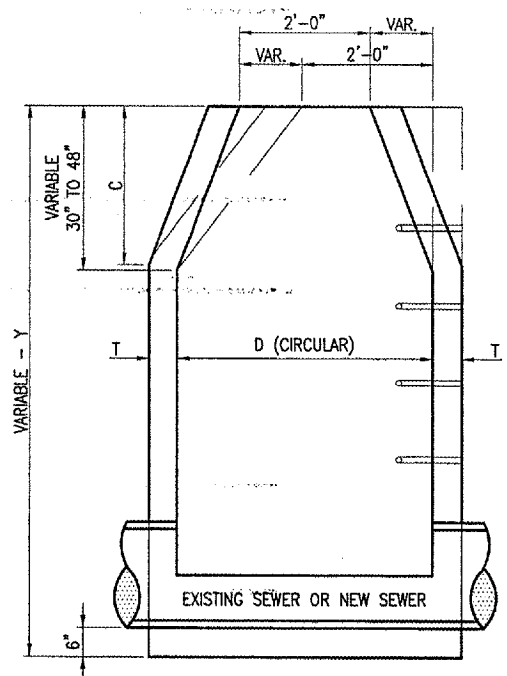
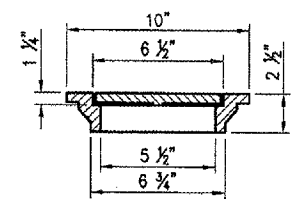


BOTTOM TO BE EITHER STRUCTURAL P.C. CONCRETE (PLAIN) OR PRECAST REINFORCED CONCRETE WITH SAND BEDDING

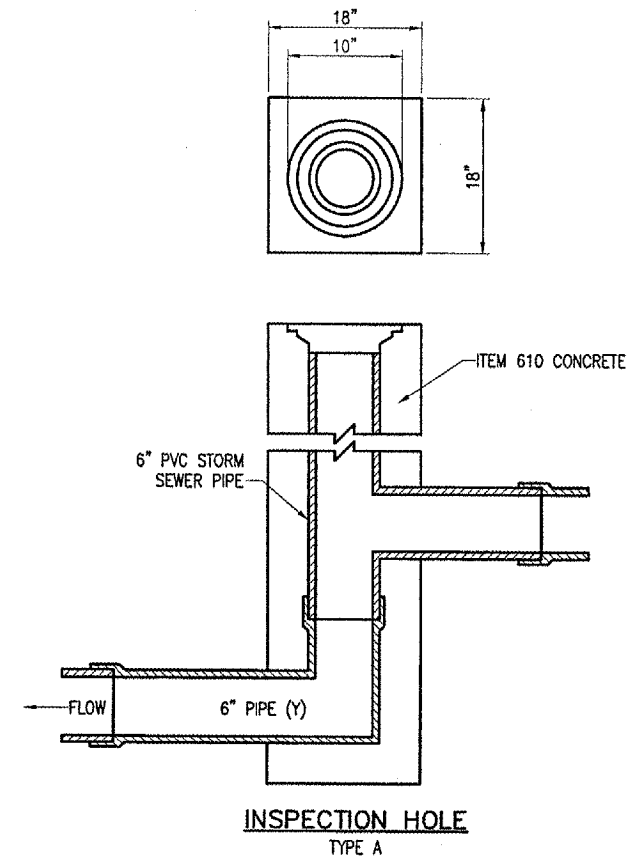
**MANHOLE DETAILS**  
"NOT TO SCALE"



ALT. MATERIAL FOR WALLS	D	C	T	D	C	T
PRECAST REINFORCED CONC. RINGS	4'	2'-6"	5"	5'	4'-0"	6"
MONOLITHIC CONCRETE	4'	2'-6"	6"	5'	4'-0"	8"



**CAST IRON FRAME AND COVER**  
NEENAH R-6013, DEETER 1810,  
EAST JORDAN 2790-6 OR  
APPROVED EQUAL



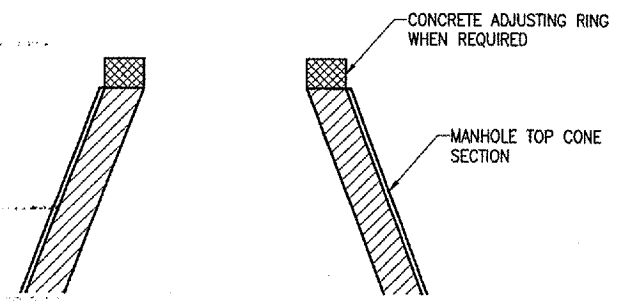
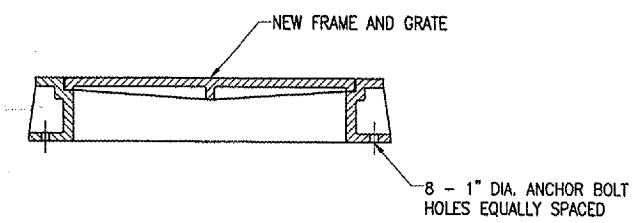
**INSPECTION HOLE**  
TYPE A

**INSPECTION HOLE NOTES**

- DIAMETER OF PIPE AS SPECIFIED.
- 1/8" CHAMFER TO BE USED ON ALL EXPOSED EDGES OF INSPECTION HOLES.
- THE CONCRETE SHALL BE STRUCTURAL PORTLAND CEMENT CONCRETE (NON-REINFORCED).
- THE INSPECTION FRAME AND LID SHALL BE EAST JORDAN 2790-6, NEENAH R-6013 OR DEETER 1810.
- THE PROPOSED INSPECTION HOLE WILL BE PAID FOR UNDER THE FOLLOWING:  
ITEM AR705630 "UNDERDRAIN INSPECTION HOLE"

**MANHOLE NOTES**

- MANHOLE TO BE CONSTRUCTED OF STRUCTURAL P.C. CONCRETE. THE CONTRACT UNIT PRICE PER MANHOLE SHALL INCLUDE THE FRAME, LID AND STEPS PER UNIT.
- THE FRAME AND LID SHALL BE NEENAH R-3492 OR EQUAL, ANCHORED TO THE MANHOLE STRUCTURE.
- MANHOLE STEPS SHALL BE NEENAH R-1980-1. 12" TO 15" C.C. STEPS TO BE INSTALLED WHEN Y IS GREATER THAN 5'. THE COST OF THE STEPS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EACH MANHOLE.
- THE PROPOSED MANHOLES WILL BE PAID FOR UNDER THE FOLLOWING:  
ITEM AR751540 "MANHOLE 4"



**ADJUST MANHOLE DETAIL**  
"NOT TO SCALE"

**ADJUSTED MANHOLE NOTES**

- THE FRAME AND GRATE WILL BE REMOVED AND TURNED OVER TO THE AIRPORT DIRECTOR FOR SALVAGE. HE CAN ELECT FOR THE CONTRACTOR TO DISPOSE OF THE MATERIAL.
- ANY PREVIOUS MATERIALS, BRICK, MORTAR, OR CONCRETE ADDED TO THE TOP MANHOLE SECTION WILL BE REMOVED. THE TOP OF THE MANHOLE STRUCTURE IS TO BE INSPECTED FOR PREVIOUS DAMAGE. A SUFFICIENT AMOUNT OF CONCRETE WILL BE SAWED OFF THE TOP OF THE SECTION TO PROVIDE A TOP SURFACE WITH SOUND UNDAMAGED CONCRETE.
- A NEENAH FOUNDRY COMPANY R-3492 SERIES AIRPORT MANHOLE FRAME AND LID, CATALOG R-3492 OR EQUAL SHALL BE PLACED ON THE MANHOLE STRUCTURE. THE FRAME WILL BE ANCHORED TO THE MANHOLE CONCRETE SECTION WITH EIGHT 1" DIA. ANCHOR BOLTS. THE LID WILL BE BOLTED TO THE MANHOLE FRAME.

- A CONCRETE MANHOLE ADJUSTING RING CAN BE USED TO OBTAIN THE PROPER ELEVATION FOR THE TOP OF THE LID ELEVATION.
- THE CONCRETE ADJUSTING RING SHALL CONFORM TO THE REQUIREMENTS OF ASTM C478. THE RING DIAMETER WILL MATCH THE TOP OF THE CONE SECTION OF THE MANHOLE, AND BE OF EQUAL WALL THICKNESS TO THE STRUCTURE. THE RING WILL BE BOLTED TO THE CONE SECTION USING 1" DIA. ANCHOR BOLTS.
- MORTAR LEVELING BETWEEN CONE AND RING WILL BE ALLOWED. THE MORTAR SHALL CONSIST OF ONE PART PORTLAND CEMENT AND TWO PARTS SAND. THE PORTLAND CEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C150, TYPE 1. THE SAND SHALL CONFORM TO THE REQUIREMENTS OF ASTM C144.

- THE PROPOSED ADJUSTED MANHOLE WILL BE PAID FOR UNDER THE FOLLOWING:  
ITEM AR751943 "ADJUST MANHOLE"

BY	
REVISION	
DATE	
<b>DECATUR, ILLINOIS</b>	
I.L. PROJ.: DEC-3414	
A.I.P. PROJ.: 3-17-0033-28	
H.E. Project No. 802-04TYD Filename R-531DRN.DWG Scale N/A Date 03/18/05	LAYOUT CCC 03/18/05 DRAWN CCC 03/18/05 REVIEWED WJM 06/07/05
Engineers, Architects, Scientists 1625 South Sixth Street Springfield, Illinois 62703-2886 Offices Nationwide	
<b>TAXIWAY G WIDENING</b> <b>PHASE II</b>	<b>DRAINAGE DETAILS</b>
<b>29</b>	
29 of 110 sheets	