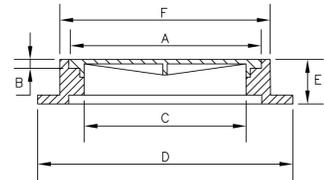
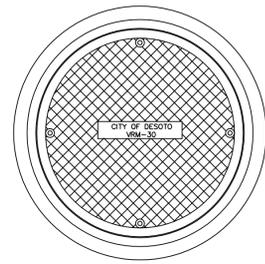


NOTE

1. CONCRETE PADS ARE TO BE INSTALLED AROUND ALL STORM DRAIN MANHOLES. PADS ARE TO BE A MINIMUM OF 4" THICK AND 4'X4' WITH #3 STEEL BARS @ 12" CENTERS.
2. WATER TIGHT LIDS MUST BE USED IN ALL DESIGNATED FLOODPLAIN AREAS.

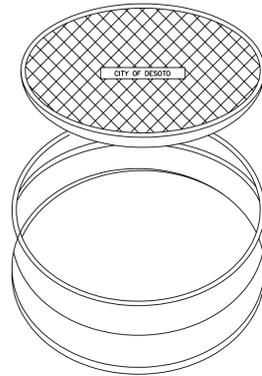


WATER-TIGHT DETAIL

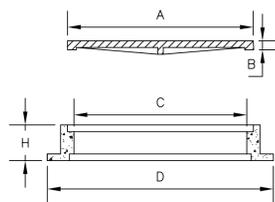
SECURED DETAIL

	DIMENSIONS						LID		RING		SET NUMBER	SET WEIGHT
	A	B	C	D	E	F	CASTING	WEIGHT	CASTING	WEIGHT		
VRM-30	32	1-1/2	27-7/8	40-1/4	5	34-1/8	1159701	230 LBS	1259700	270 LBS	1559701	500 LBS

WATER-TIGHT MANHOLE FRAME & COVER

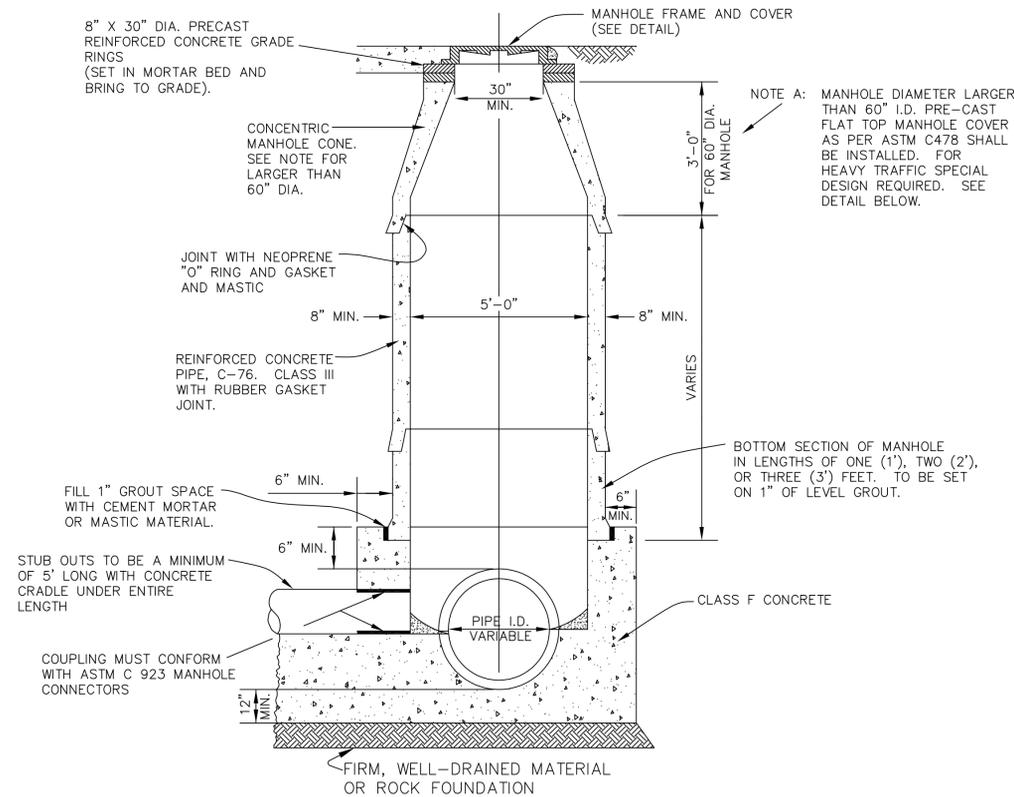


- NOTE:**
1. ALL SEWER MANHOLE LIDS SHALL BE IMPRINTED WITH THE CITY OF DESOTO NAME.

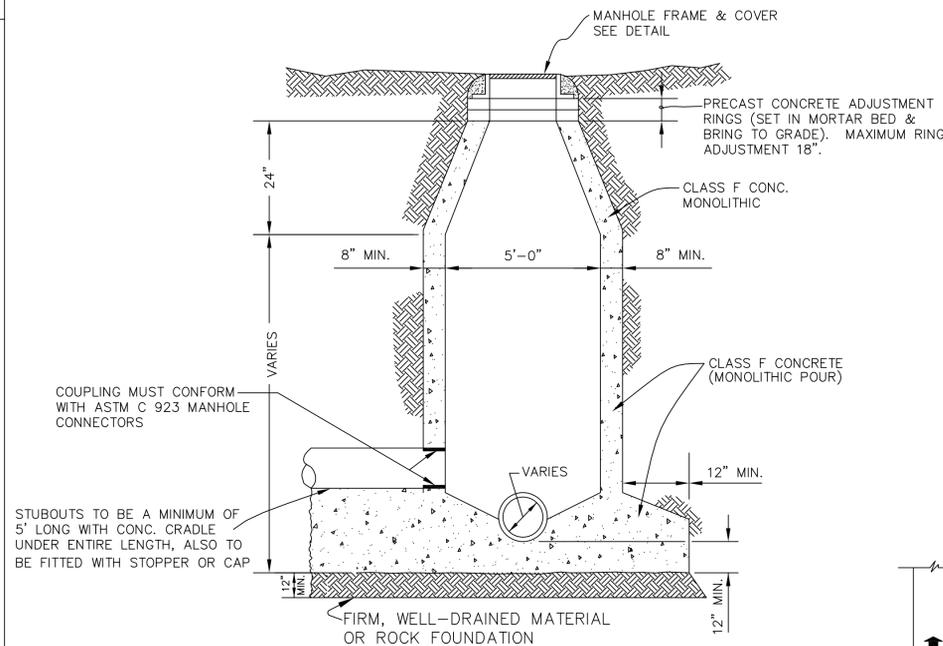


V R M SERIES RING & SOLID COVER									
PATTERN	LID			RING			SET WT.		
	A	B	WEIGHT	C	D	H		WEIGHT	
VRM 30	32	1-1/2	210 LBS.	30-3/8	40-1/4	5	245 LBS.	455 LBS.	
V R M SERIES RING & GRATE									
PATTERN	GRATE			RING			SET WT.		
	A	B	WEIGHT	C	D	H		WEIGHT	
VRM 30	32	1-1/2	190 LBS.	30-3/8	40-1/4	5	245 LBS.	435 LBS.	

STANDARD MANHOLE FRAME & COVER



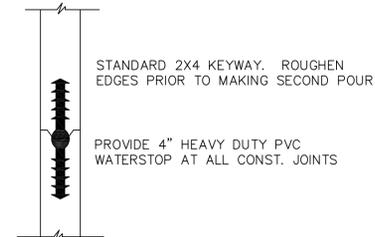
PRECAST CONCRETE PIPE MANHOLE



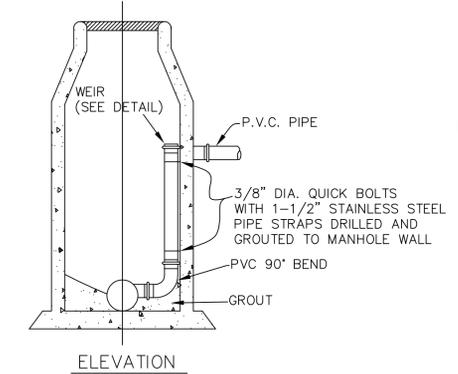
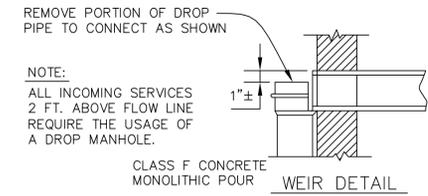
STANDARD CAST-IN-PLACE MANHOLE

CAST-IN-PLACE NOTES:

1. KEYWAYS REQUIRED FOR ALL CONSTRUCTION JOINTS.
2. P.V.C. WATER STOP REQUIRED FOR ALL JOINTS IN LOWER 5'-0" OF MANHOLES.
3. CLASS F CONCRETE, 4,200 PSI, MAX WATER CEMENT RATIO IS 5.5



KEYWAY WITH WATERSTOP



DROP MANHOLE

GENERAL NOTES

1. SANITARY SEWER PIPE MAINS LESS THAN 10' DEPTH SHALL BE PVC SDR-35 PIPE. SEWER PIPE GREATER THAN 10' DEPTH SHALL BE PVC SDR-26 PIPE. LATERALS SHALL BE PVC SDR-26 PIPE GREEN IN COLOR. UNLESS DIRECTED OTHERWISE BY THE CITY ENGINEER.
2. SANITARY SEWER PIPE JOINTS SHALL CONFORM TO CURRENT ASTM DESIGNATIONS FOR PVC PIPE.
3. ALL SANITARY SEWER LATERALS SHALL INCLUDE 4" TEE, WYE BEND, PIPE, AND STOPPER INSTALLED AT THE CENTER OF EACH LOT, UNLESS OTHERWISE INDICATED ON PLANS. 6" OR LARGER LATERALS REQUIRE M.H. AT MAIN SEWER PIPE. LATERALS SHALL HAVE A MIN. SLOPE OF 1/8 INCH PER FOOT.
4. UNLESS OTHERWISE NOTED, ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS, INCLUDING TESTING AND VIDEO INSPECTION OF ALL SEWER LINES.
5. DROP MANHOLE REQUIRED FOR CONNECTIONS GREATER THAN 2' HEIGHT FROM MAIN FLOWLINE TO 18" DIAMETER OR LARGER PIPE.
6. THE LOCATION OF ALL MANHOLES, CLEANOUTS, AND SERVICES SHALL BE MARKED ON THE STREET OR ALLEY CURB, AS DIRECTED BY THE CITY ENGINEER.
7. SPACING OF MANHOLES AND CLEANOUTS SHALL BE AS SPECIFIED IN THE CITY OF DESOTO WATER UTILITIES DESIGN MANUAL OR AS DIRECTED BY THE CITY ENGINEER.
8. MANHOLES CONSTRUCTED IN LOCATIONS SUBJECT TO SUBMERSION, SHALL BE VRM-30 WATER TIGHT MANHOLES.
9. NO SEWER SERVICE LINE CONNECTIONS SHALL BE CONSTRUCTED DEEPER THAN 12 FEET.
10. ALL MANHOLES REQUIRE STAINLESS STEEL RAIN STOP.

NO.	REVISION	BY	DATE

CERTIFICATION: CITY OF DESOTO STANDARD CONSTRUCTION DETAIL SHEET IS AUTHORIZED FOR USE IN THIS PROJECT BY THE ENGINEER WHOSE SEAL APPEARS ON THIS SHEET. THIS ENGINEER IS ALSO CERTIFYING THAT THE DETAIL AND NOTES ON THIS SHEET HAVE NOT BEEN ALTERED FROM THAT RECEIVED FROM THE CITY OF DESOTO.

STANDARD CONSTRUCTION DETAILS

CITY OF DESOTO, TEXAS
DEVELOPMENT SERVICES
ENGINEERING DEPARTMENT

SANITARY SEWER

DATE: APRIL, 2016

SHEET: SD-16

ENGINEERING
SEAL