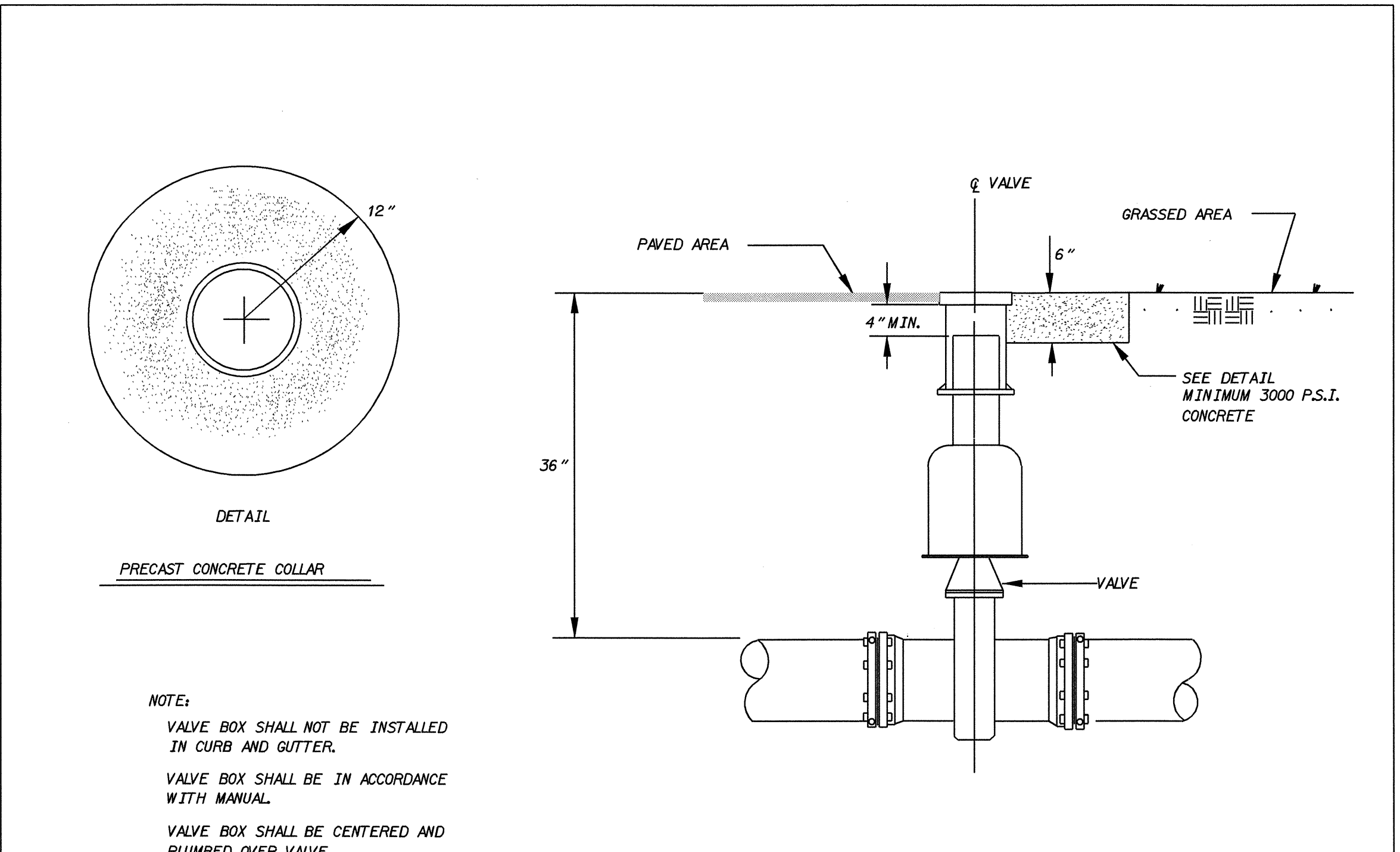


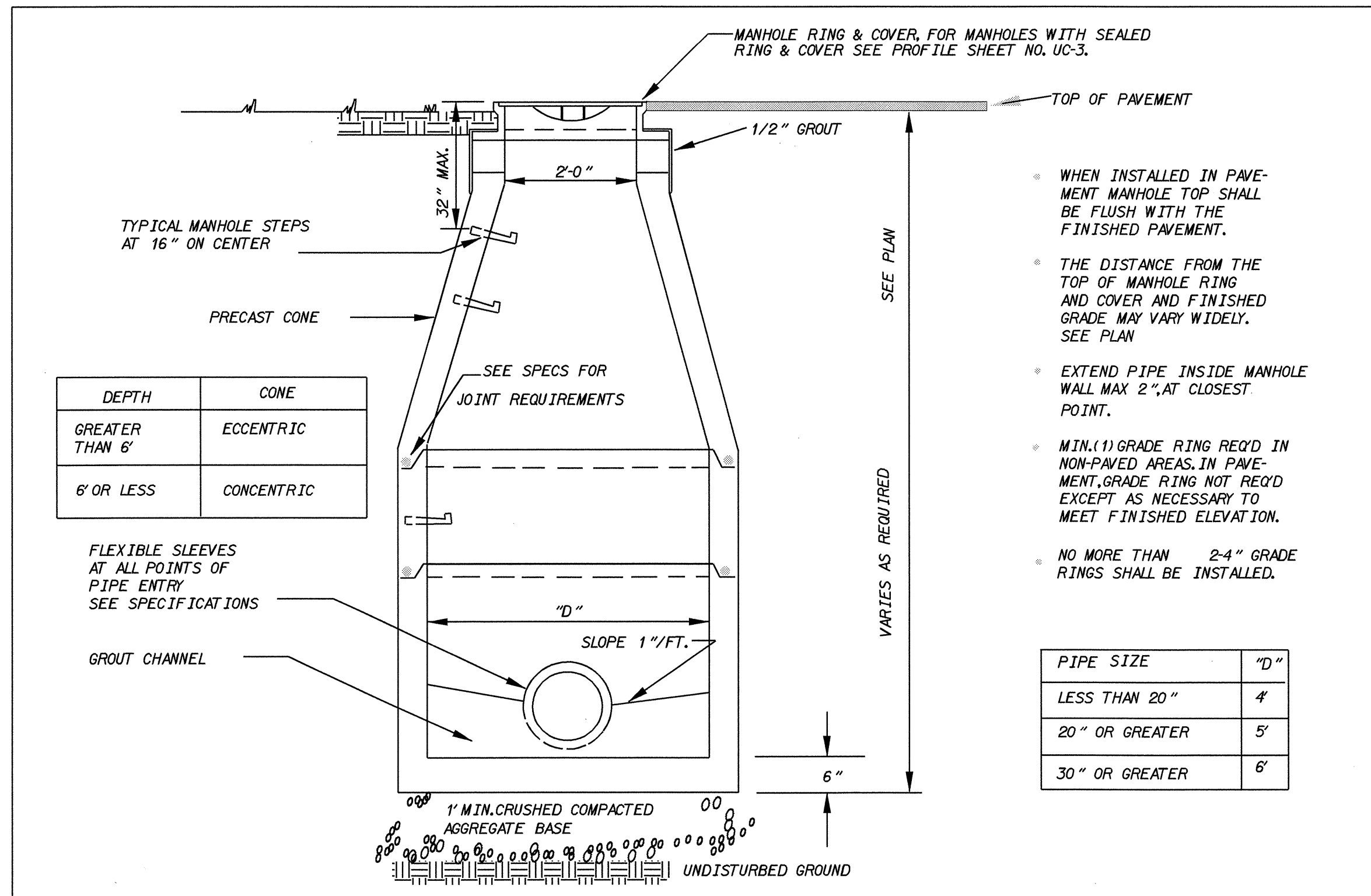
NOTE:
 HYDRANT TO BE PLUMB. IF ADJUSTMENT IS NECESSARY AFTER PRESSURE TEST, RETESTING MAY BE REQUIRED BY GUC.
 VALVE BOX SHALL NOT BE INSTALLED IN SLOPE SECTION.
 MINIMUM OF 2'-6" FROM TOP OF SLOPE TO FIRE HYDRANT OR EXTENDED TO RIGHT-OF-WAY, WHICHEVER IS GREATER.
 EASEMENT TO BE GRANTED TO GUC BY THE DEVELOPER IF HYDRANT EXTENDS BEYOND RIGHT-OF-WAY.

FIRE HYDRANT INSTALLATION (FOR AREAS WITHOUT CURB & GUTTER)				GREENVILLE UTILITIES GREENVILLE, N.C.			NO.	DATE	DESCRIPTION
SHEET	DWG. NO.	W-5	DWG	N.WOOTEN	WATER RESOURCES ENGINEERING GREENVILLE, N.C.				
1 OF 1	DATE	3-12-99	APP	H. COREY					



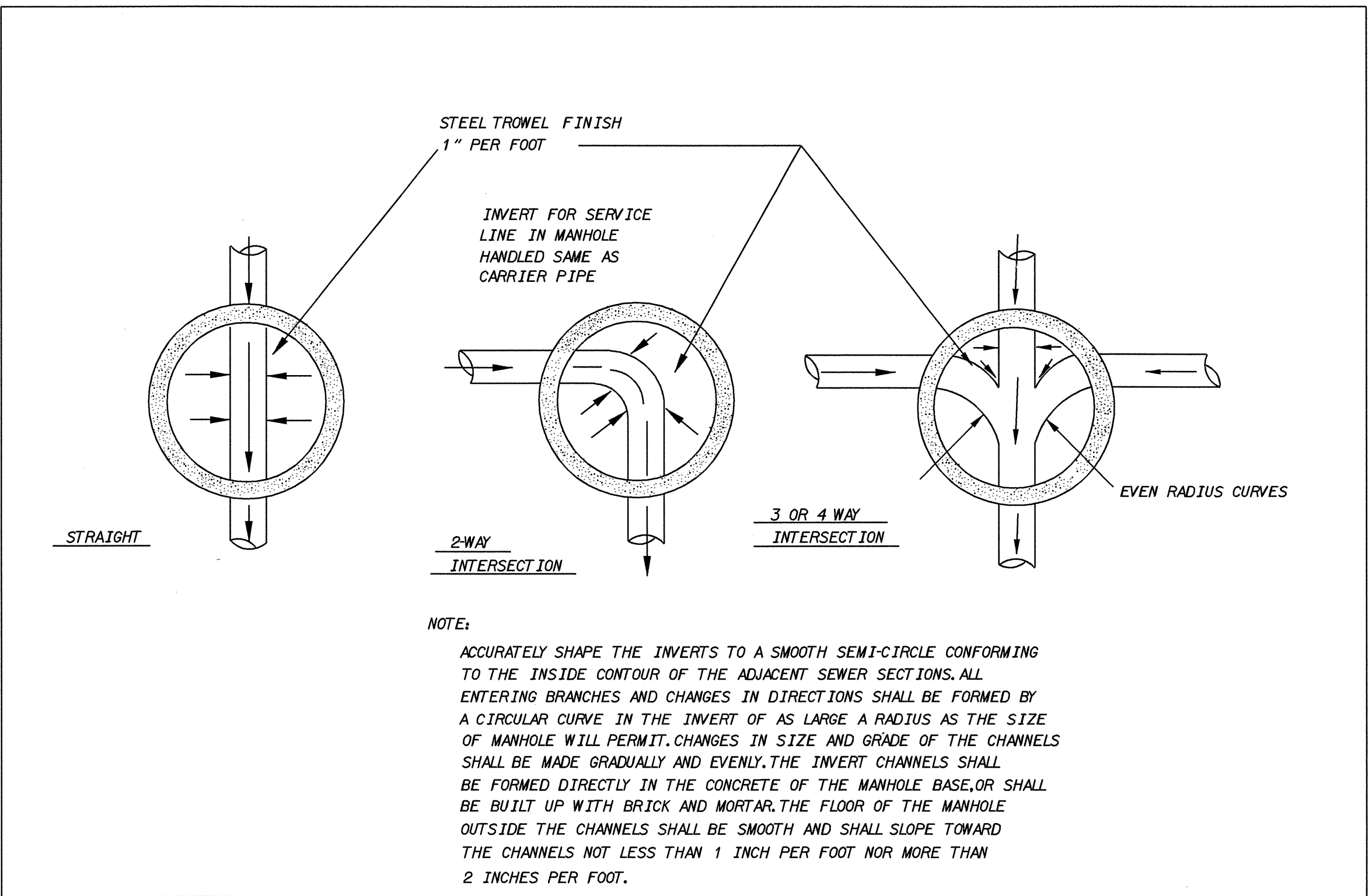
NOTE:
 VALVE BOX SHALL NOT BE INSTALLED IN CURB AND GUTTER.
 VALVE BOX SHALL BE IN ACCORDANCE WITH MANUAL.
 VALVE BOX SHALL BE CENTERED AND PLUMBED OVER VALVE.

VALVE BOX DETAIL FOR VALVES SMALLER THAN 12"				GREENVILLE UTILITIES GREENVILLE, N.C.			NO.	DATE	DESCRIPTION
SHEET	DWG. NO.	W-7	DWG	N.WOOTEN	WATER RESOURCES ENGINEERING GREENVILLE, N.C.				
1 OF 1	DATE	3-12-99	APP	H. COREY					



- WHEN INSTALLED IN PAVEMENT MANHOLE TOP SHALL BE FLUSH WITH THE FINISHED PAVEMENT.
- THE DISTANCE FROM THE TOP OF MANHOLE RING AND COVER AND FINISHED GRADE MAY VARY WIDELY. SEE PLAN
- EXTEND PIPE INSIDE MANHOLE WALL MAX 2" AT CLOSEST POINT.
- MIN. (1) GRADE RING REQ'D IN NON-PAVED AREAS. IN PAVEMENT, GRADE RING NOT REQ'D EXCEPT AS NECESSARY TO MEET FINISHED ELEVATION.
- NO MORE THAN 2-4" GRADE RINGS SHALL BE INSTALLED.

TYPICAL PRECAST MANHOLE FOR MANHOLES 12 OR LESS IN DEPTH				GREENVILLE UTILITIES GREENVILLE, N.C.			NO.	DATE	DESCRIPTION
SHEET	DWG. NO.	S-4	DWG	N.WOOTEN	WATER RESOURCES ENGINEERING GREENVILLE, N.C.				
1 OF 1	DATE	3-12-99	APP	H. COREY					



NOTE:
 ACCURATELY SHAPE THE INVERTS TO A SMOOTH SEMI-CIRCLE CONFORMING TO THE INSIDE CONTOUR OF THE ADJACENT SEWER SECTIONS. ALL ENTERING BRANCHES AND CHANGES IN DIRECTIONS SHALL BE FORMED BY A CIRCULAR CURVE IN THE INVERT OF AS LARGE A RADIUS AS THE SIZE OF MANHOLE WILL PERMIT. CHANGES IN SIZE AND GRADE OF THE CHANNELS SHALL BE MADE GRADUALLY AND EVENLY. THE INVERT CHANNELS SHALL BE FORMED DIRECTLY IN THE CONCRETE OF THE MANHOLE BASE, OR SHALL BE BUILT UP WITH BRICK AND MORTAR. THE FLOOR OF THE MANHOLE OUTSIDE THE CHANNELS SHALL BE SMOOTH AND SHALL SLOPE TOWARD THE CHANNELS NOT LESS THAN 1 INCH PER FOOT NOR MORE THAN 2 INCHES PER FOOT.

MANHOLE INVERTS				GREENVILLE UTILITIES GREENVILLE, N.C.			NO.	DATE	DESCRIPTION
SHEET	DWG. NO.	S-17	DWG	N.WOOTEN	WATER RESOURCES ENGINEERING GREENVILLE, N.C.				
1 OF 1	DATE	3-12-99	APP	H. COREY					