

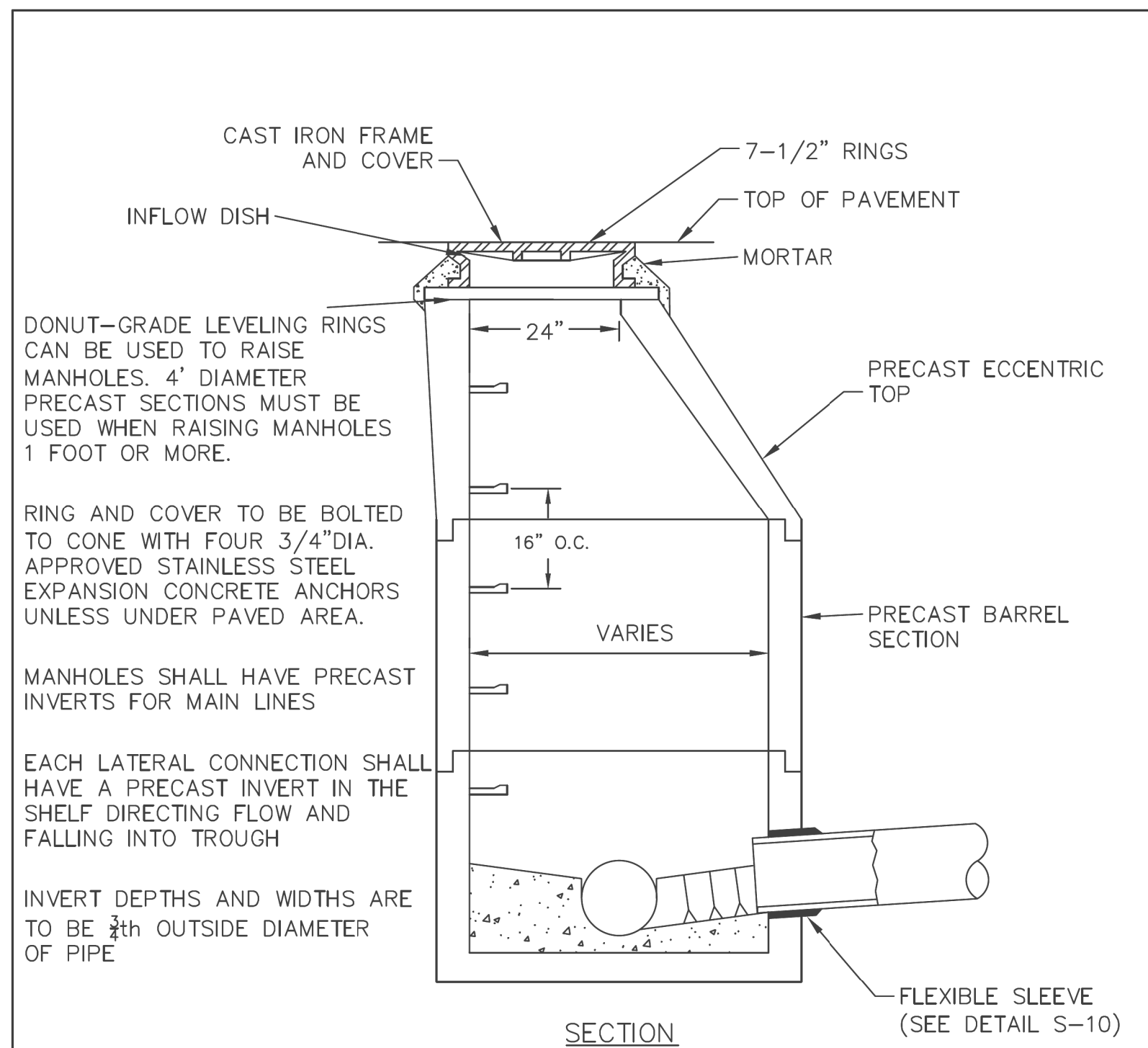
PROJECT TYPICAL DETAILS



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PROJECT REFERENCE NO. R-3833C	SHEET NO. UC-03F
DESIGNED BY: MCM	
DRAWN BY: RGR	
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APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	2/24/2023
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

UTILITY CONSTRUCTION



DONUT-GRADE LEVELING RINGS CAN BE USED TO RAISE MANHOLES. 4" DIAMETER PRECAST SECTIONS MUST BE USED WHEN RAISING MANHOLES 1 FOOT OR MORE.

RING AND COVER TO BE BOLTED TO CONE WITH FOUR 3/4" DIA. APPROVED STAINLESS STEEL EXPANSION CONCRETE ANCHORS UNLESS UNDER PAVED AREA.

MANHOLES SHALL HAVE PRECAST INVERTS FOR MAIN LINES

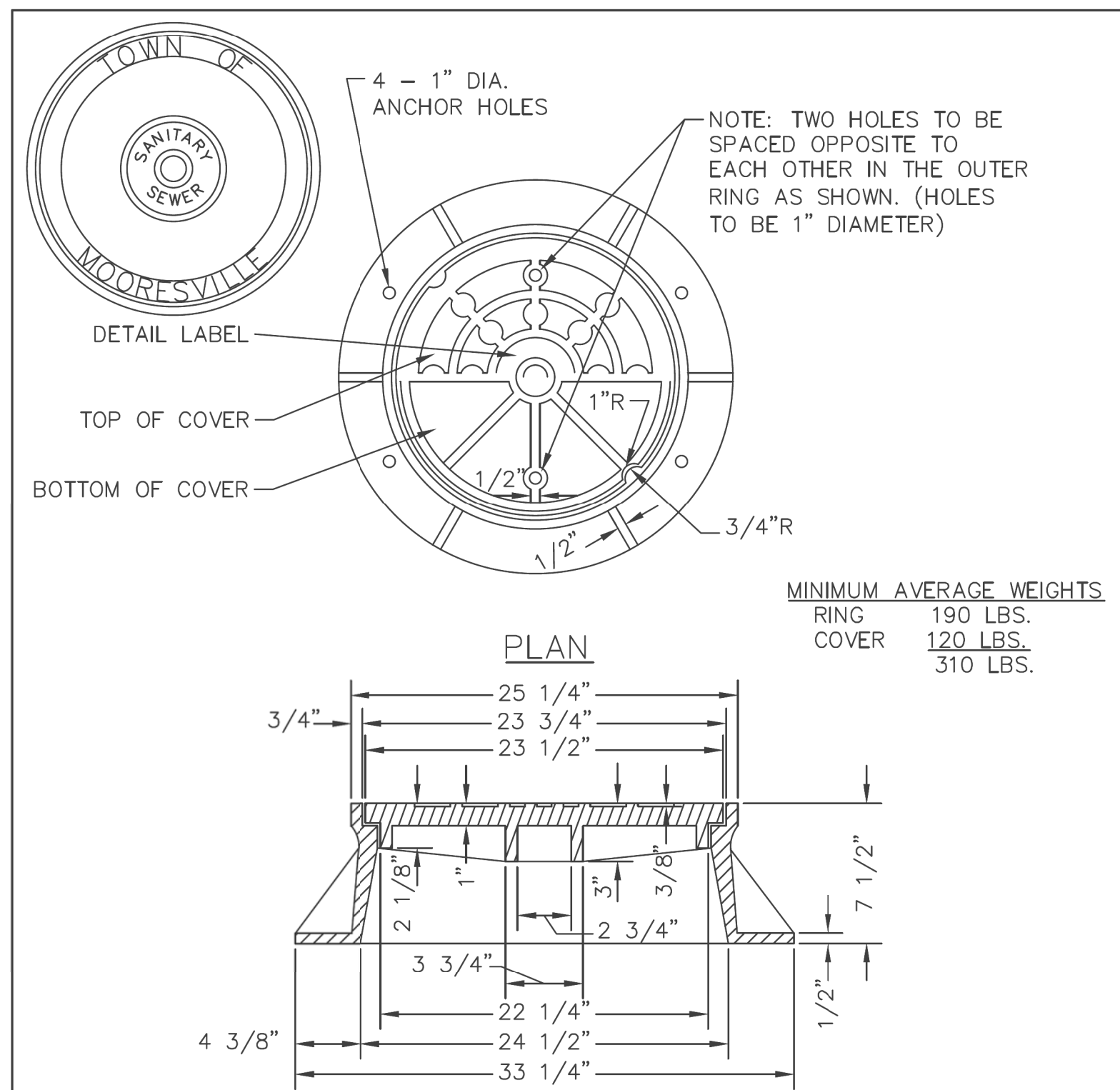
EACH LATERAL CONNECTION SHALL HAVE A PRECAST INVERT IN THE SHELF DIRECTING FLOW AND FALLING INTO TROUGH

INVERT DEPTHS AND WIDTHS ARE TO BE 3/4" OUTSIDE DIAMETER OF PIPE

NOTES:

1. PRECAST MANHOLE SHALL CONFORM TO ASTM C478, WITH AASHTO M198 BUTYL SEALS BETWEEN JOINTS AND 6" ADHESIVE BUTYL TAPE ON THE OUTSIDE OF JOINTS.
2. MANHOLE RIM SHALL BE FLUSH WITH PAVED SURFACES AND LAWNS AND 2 TO 3 FEET ABOVE GRADE IN UNIMPROVED AREAS.
3. SEE DETAIL S-9 FOR PRECAST MANHOLE INVERTS.
4. MANHOLES SHALL BE BEDDED ON 8" STABILIZATION STONE AS OR AS DIRECTED BY THE INSPECTOR OR SOIL ENGINEER.
5. ALL VENTED MANHOLES SHALL HAVE AN MANHOLE INSERT DISH. SEE STANDARDS 4.4 b FOR DETAILS.

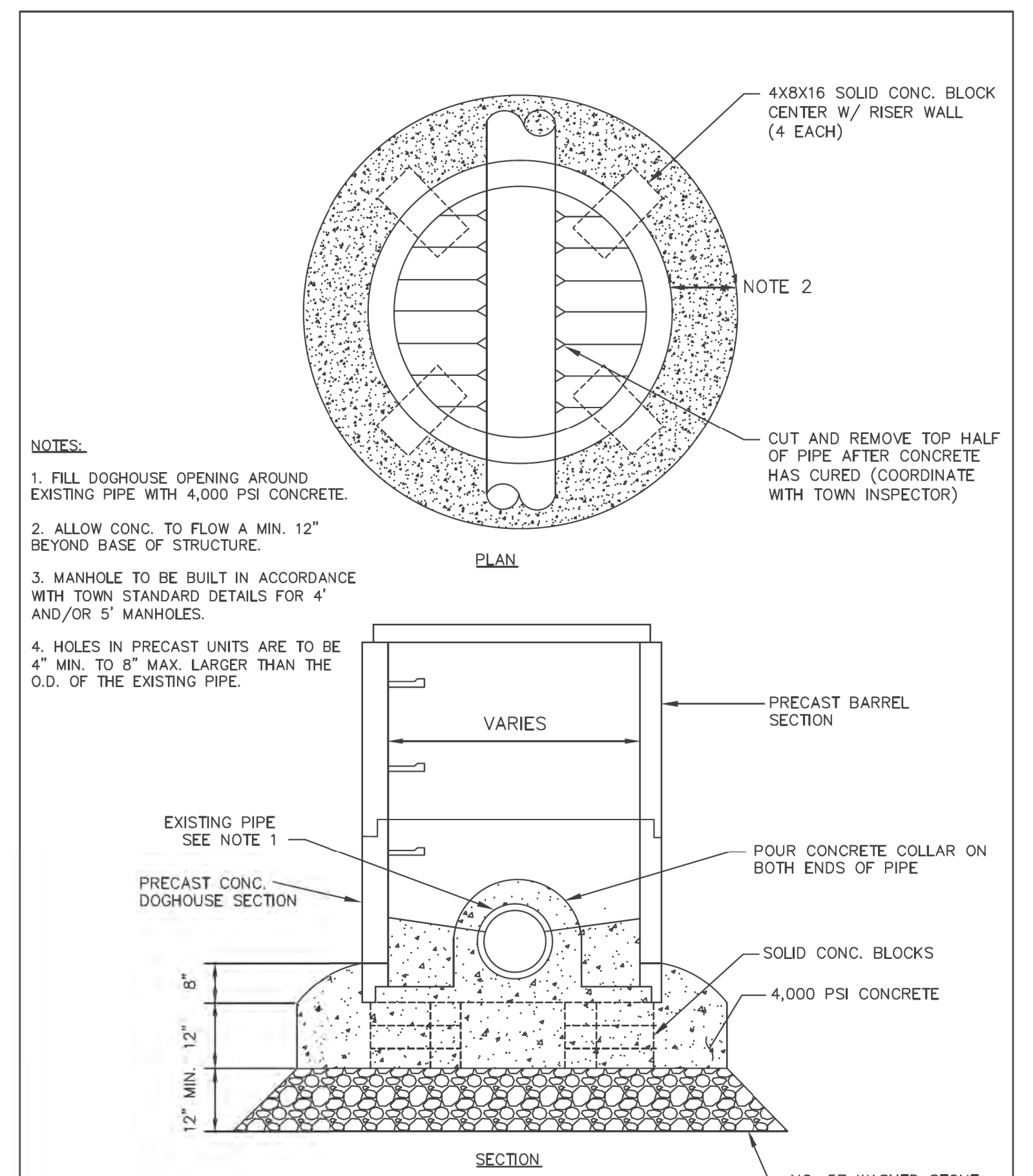
TOWN OF MOORESVILLE STANDARD DETAIL	SEWER SYSTEMS STANDARD MANHOLE	January 2009 Revision 1	
		NTS	S - 1.0



NOTES:

1. RING AND COVER WILL HAVE MACHINED SEAT AND WILL CONFORM TO ASTM A48, CLASS 35B. RING AND COVER WILL BE DESIGNED TO SUPPORT AN H-20 WHEEL LOAD ALSO MEETING NCDOT STANDARD 840.54.
2. DIMENSIONS MAY VARY BUT MANHOLE RING AND COVER ARE TO BE INTERCHANGEABLE WITH DIMENSIONS SHOWN.
3. FOUR-INCH RINGS IN ROADWAYS MUST BE APPROVED BY THE DIRECTOR OF ENGINEERING, AND SHALL BE BOLTED TO THE CONE WITH FOUR 3/4-INCH DIA. STAINLESS STEEL ANCHORS.

TOWN OF MOORESVILLE STANDARD DETAIL	SEWER SYSTEMS STANDARD RING & COVER	January 2014 Revision 2	
		NTS	S-2.0



NOTES:

1. FILL DOGHOUSE OPENING AROUND EXISTING PIPE WITH 4,000 PSI CONCRETE.
2. ALLOW CONC. TO FLOW A MIN. 12" BEYOND BASE OF STRUCTURE.
3. MANHOLE TO BE BUILT IN ACCORDANCE WITH TOWN STANDARD DETAILS FOR 4' AND/OR 5' MANHOLES.
4. HOLES IN PRECAST UNITS ARE TO BE 4" MIN. TO 8" MAX. LARGER THAN THE O.D. OF THE EXISTING PIPE.

TOWN OF MOORESVILLE STANDARD DETAIL	SEWER SYSTEMS DOGHOUSE MANHOLE	January 2009 Revision 1	
		NTS	S - 5.0