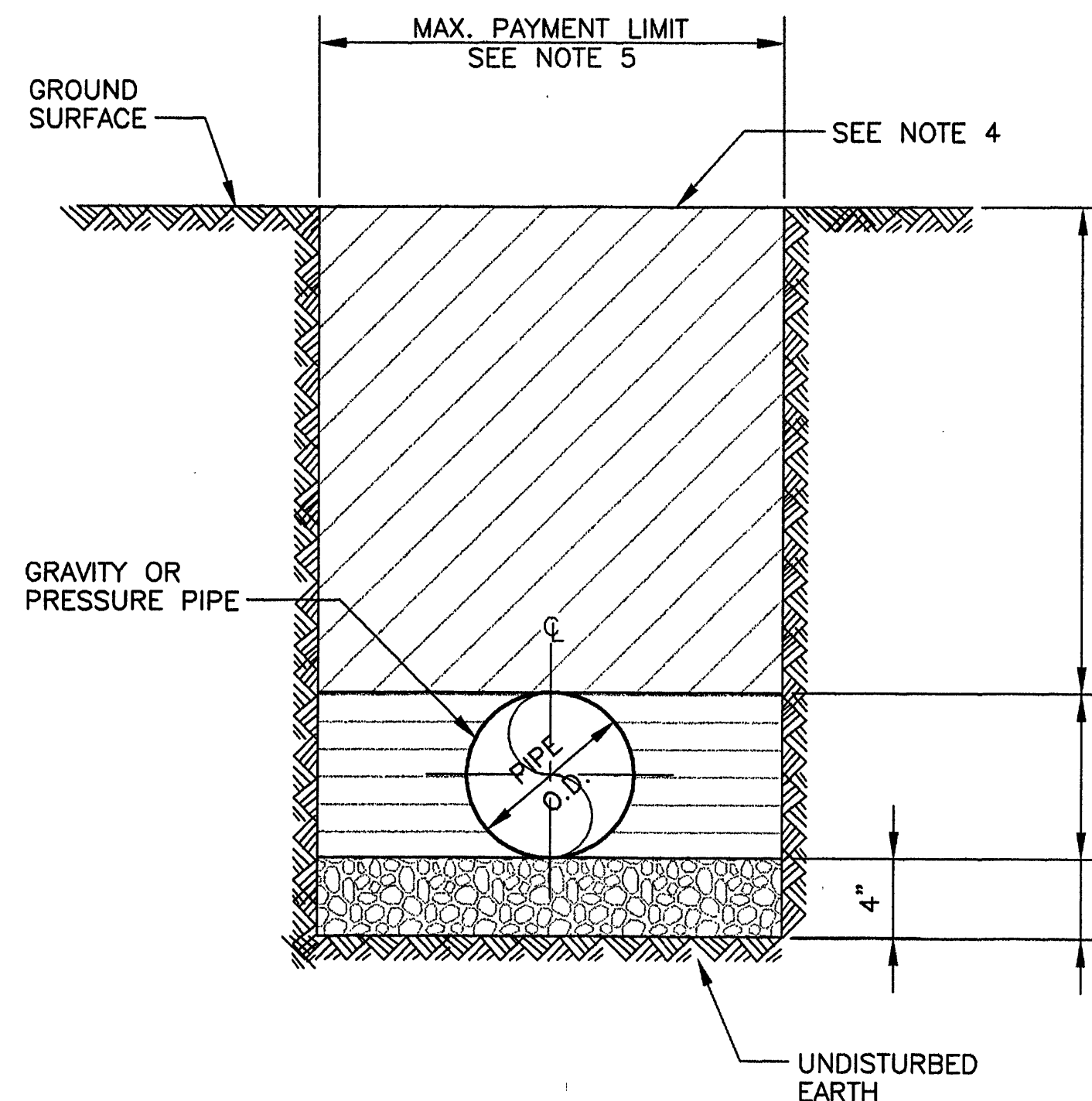


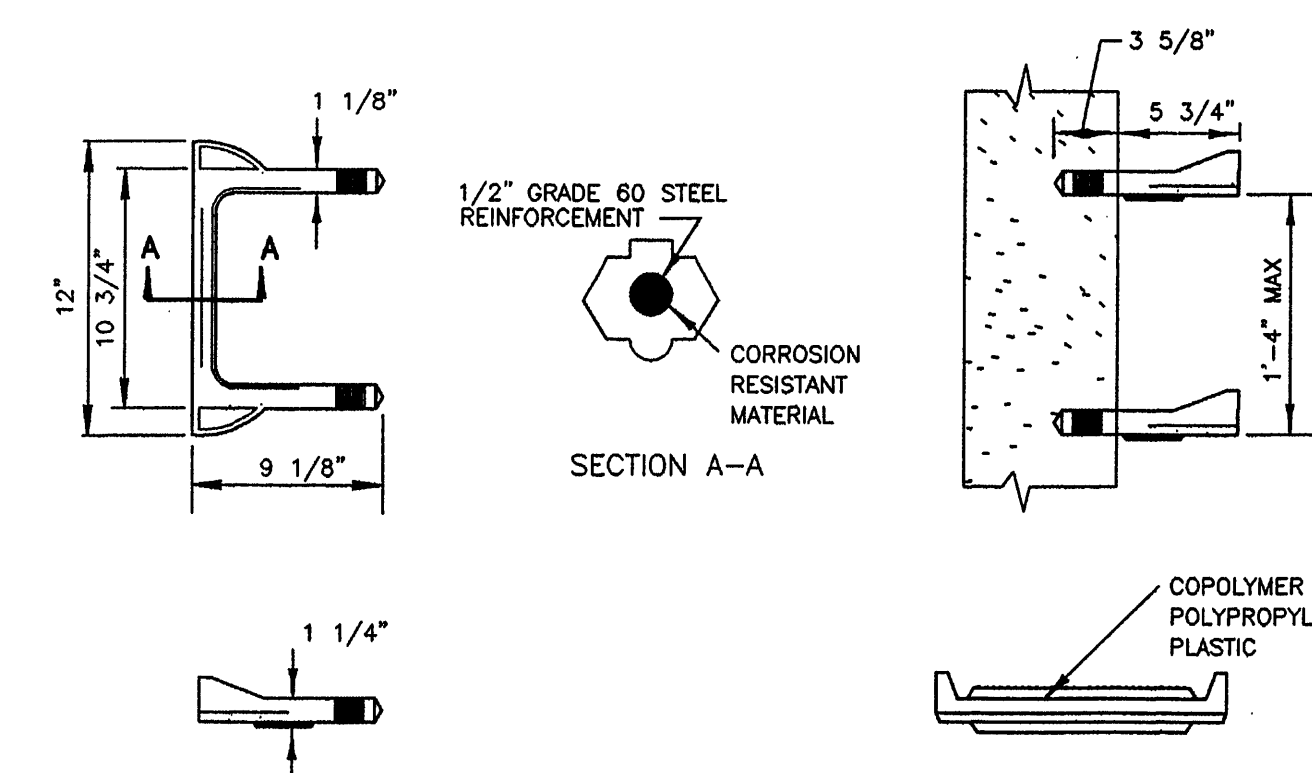


SEE NOTE 3

SEE NOTE 2

SEE NOTE 1

- NOTES:
1. VDOT NO. 57 STONE OR EQUAL LIGHTLY COMPACTED. FOR DEPTH IN ROCK SEE SECTION 02207, PARAGRAPH 3.8.F.
 2. GENERAL BACKFILL, COMPACTED TO 95% STD. PROCTOR DENSITY IN MAX. 6" LIFTS TO TOP OF PIPE.
 3. GENERAL BACKFILL COMPACTED TO 95% STD. PROCTOR DENSITY IN 8" TO 12" LIFTS FROM TOP OF PIPE.
 4. RESTORE GRADE TO ORIGINAL GROUND SURFACE ELEVATION.
 5. MAX PAYMENT LIMIT FOR NON-ROCK EXCAVATION IS PIPE O.D. + 2'-0" FOR TRENCHES LESS THAN 10 FEET DEEP AND PIPE O.D. + 3'-0" FOR TRENCHES GREATER THAN 10 FEET DEEP. FOR ROCK EXCAVATION SEE SECTION 02222.

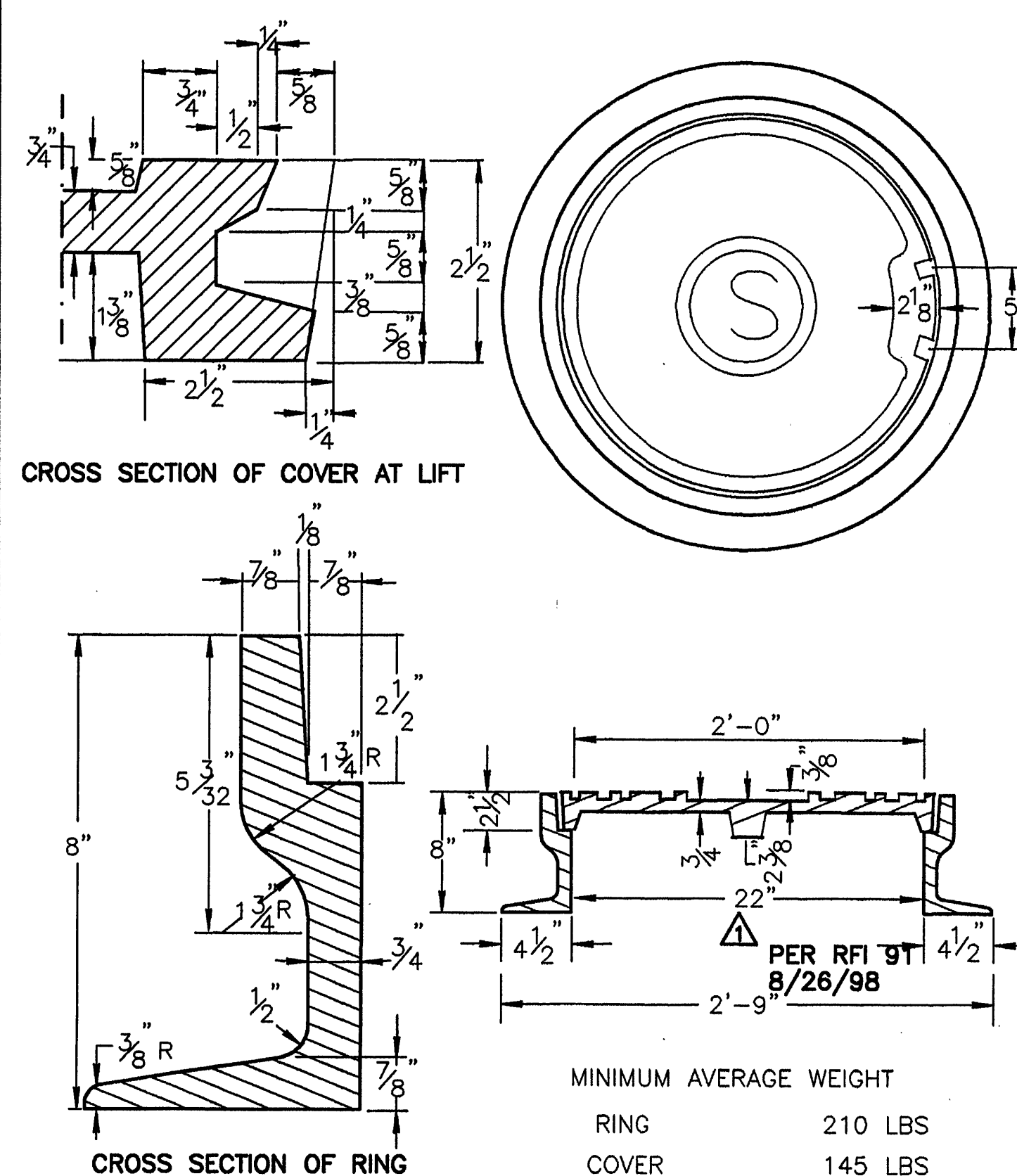


- NOTES
- STEPS WILL BE REQUIRED IN ALL STRUCTURES WITH A DEPTH OF 4'-0" OR GREATER UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL STEPS SHALL PROTRUDE 5" FROM INSIDE FACE OF STRUCTURE WALL.
- MAXIMUM STEP SPACING TO BE 1'-4" C-C.
- STEPS SHALL WITHSTAND A MINIMUM LOAD OF 300 POUNDS WHEN EXTENDED 5" FROM THE FACE OF THE SUPPORT.
- STEPS ARE TO BE VERTICALLY ALIGNED AND UNIFORMLY SPACED FOR THE ENTIRE DEPTH OF ANY STRUCTURE.
- IN PRECAST UNITS STEPS MAY BE CAST IN PLACE OR MORTARED INTO HOLES PROVIDED BY THE FABRICATOR.
- STEPS OFFERING DIMENSIONS, CONFIGURATIONS, OR MATERIALS FROM THOSE SHOWN MAY ALSO BE USED PROVIDED THEY MEET THE MINIMUM REQUIREMENTS SHOWN HEREON AND THE CONTRACTOR HAS FURNISHED THE ENGINEER WITH DETAILS AND CERTIFIED TEST REPORTS OF THE PROPOSED SUBSTITUTE AND HAS RECEIVED WRITTEN APPROVAL FROM THE ENGINEER FOR THE USE OF SUCH STEPS.

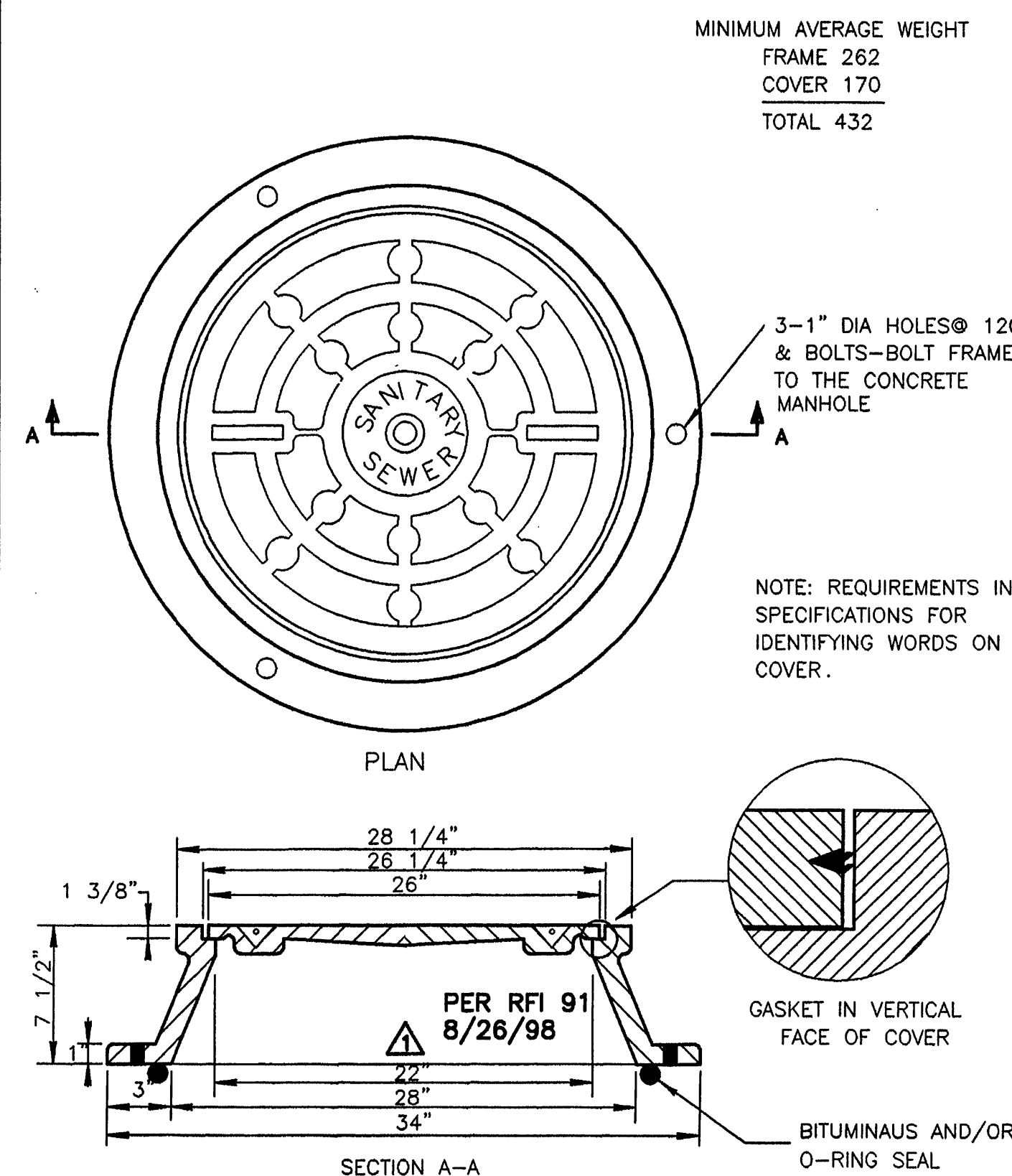
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PIPE TRENCH DETAIL

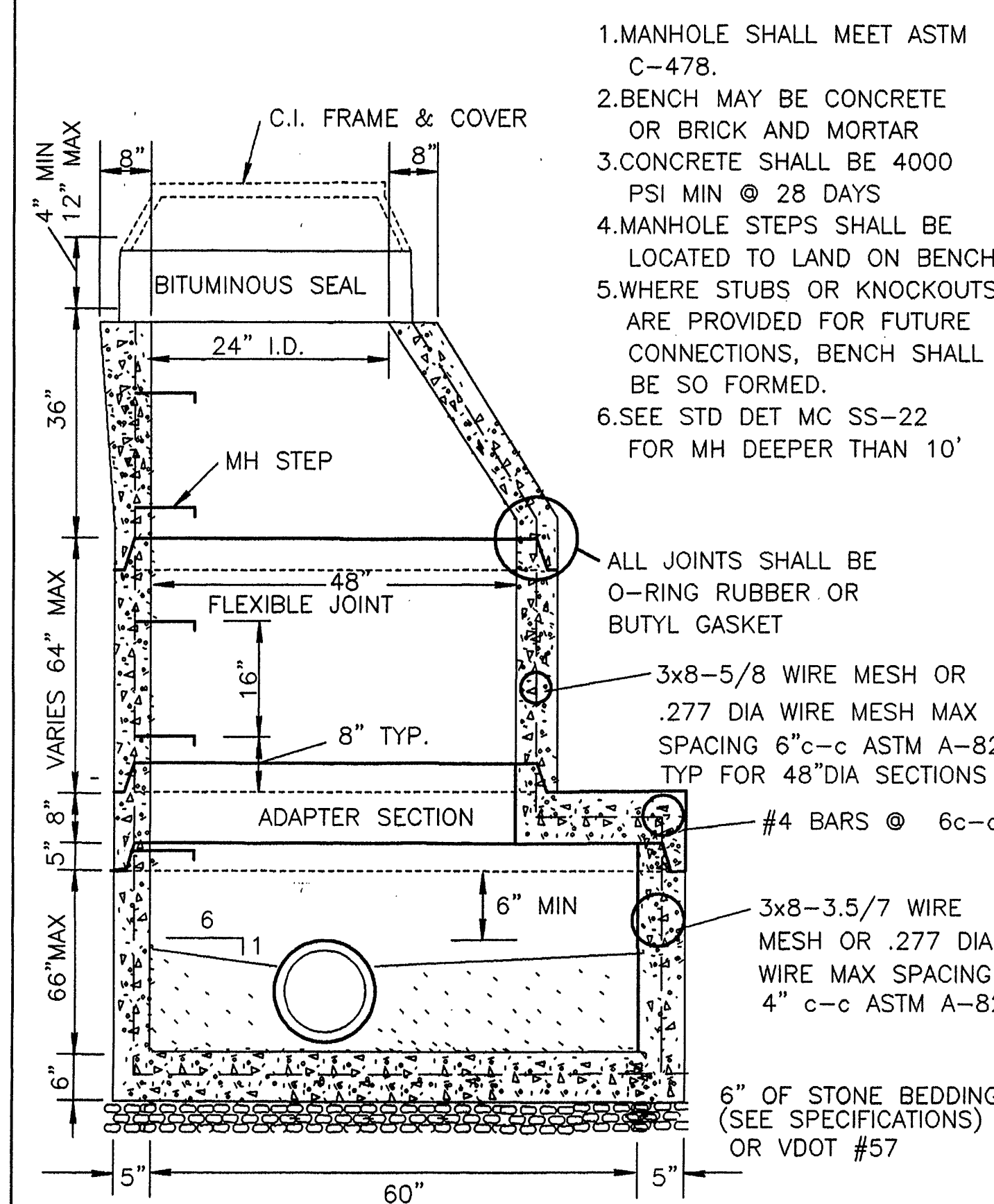
MANHOLE STEP



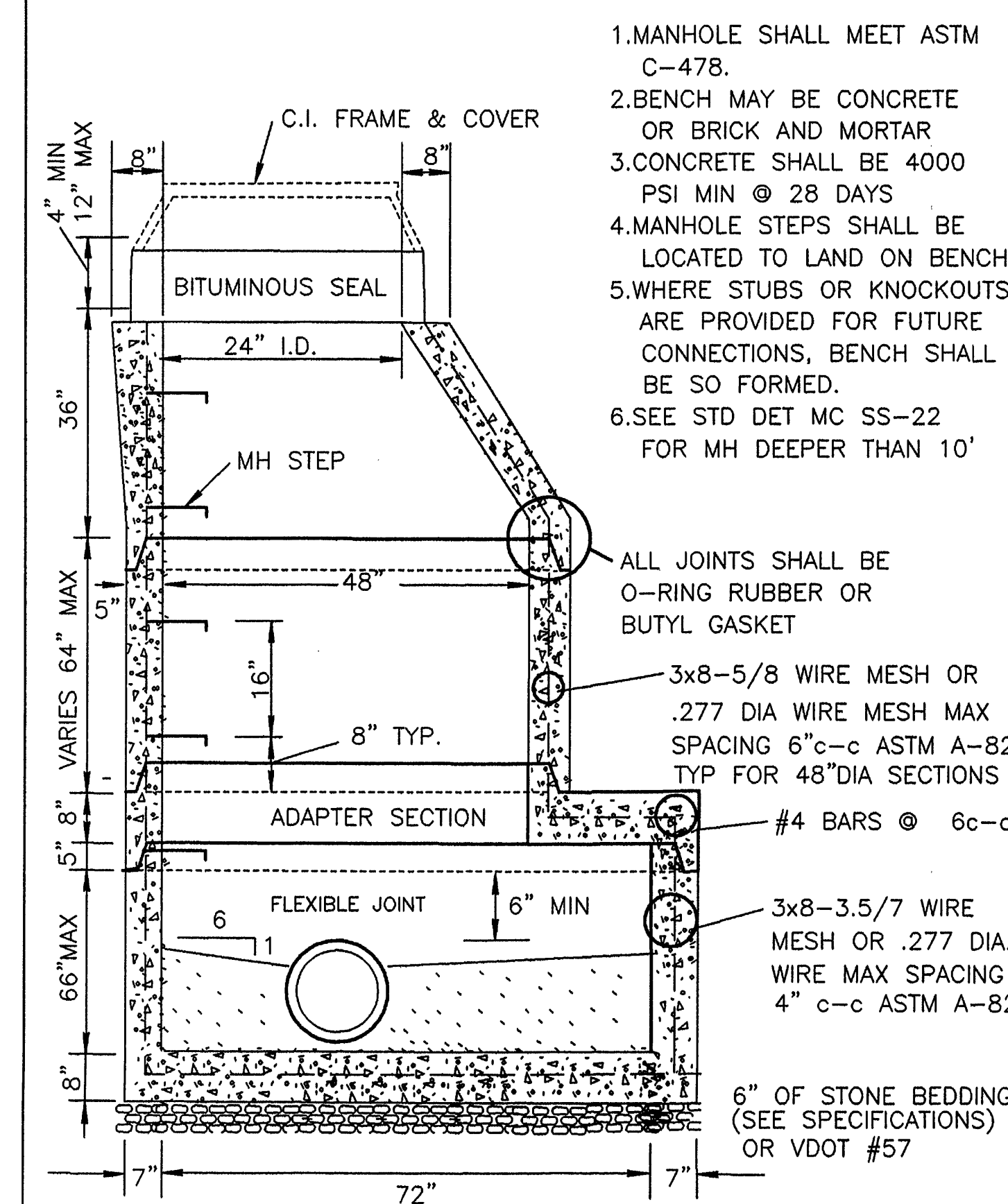
STANDARD MANHOLE FRAME AND COVER



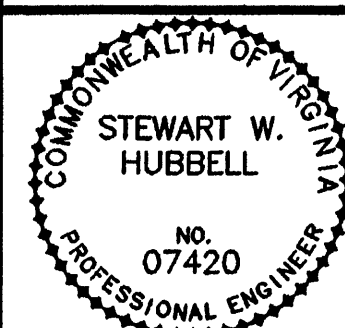
WATERTIGHT MANHOLE FRAME AND COVER



PRECAST CONCRETE STANDARD MANHOLE 5 FOOT DIAMETER



PRECAST CONCRETE STANDARD MANHOLE 6 FOOT DIAMETER



NO.	BY	DATE	REVISIONS	REMARKS
1	ARB	JAN. 2000	RECORD DRAWING	

DES --- WTA
DWN ---
CKD --- SWH



CITY OF ROANOKE, VIRGINIA WATER POLLUTION CONTROL PLANT UPGRADE AND EXPANSION

SITE PLAN

TYPICAL SITE DETAILS I SCALE: NOT TO SCALE

DATE MAY, 1997
G SHEET 22 OF 23
CAD REF. NO. G22.DWG