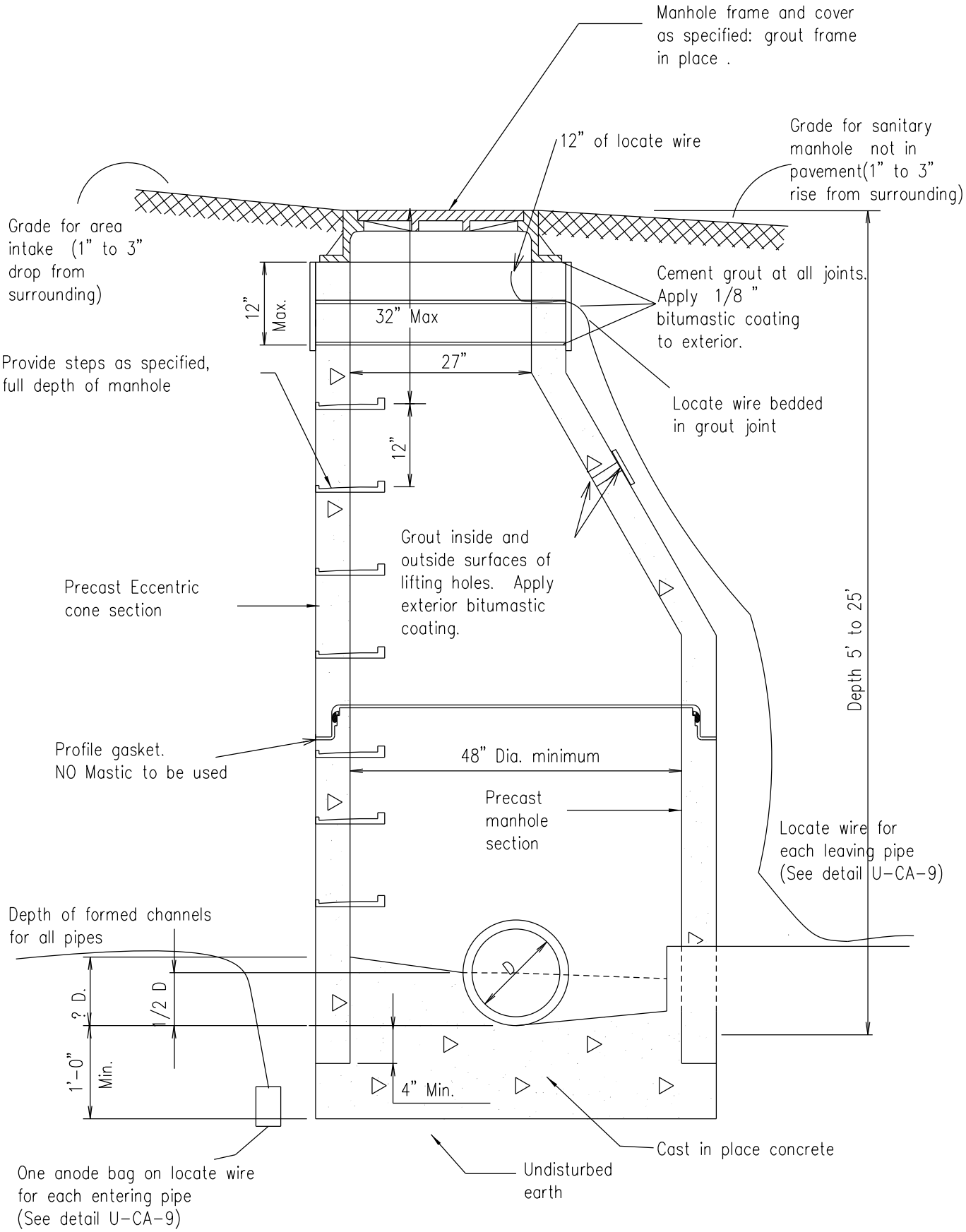


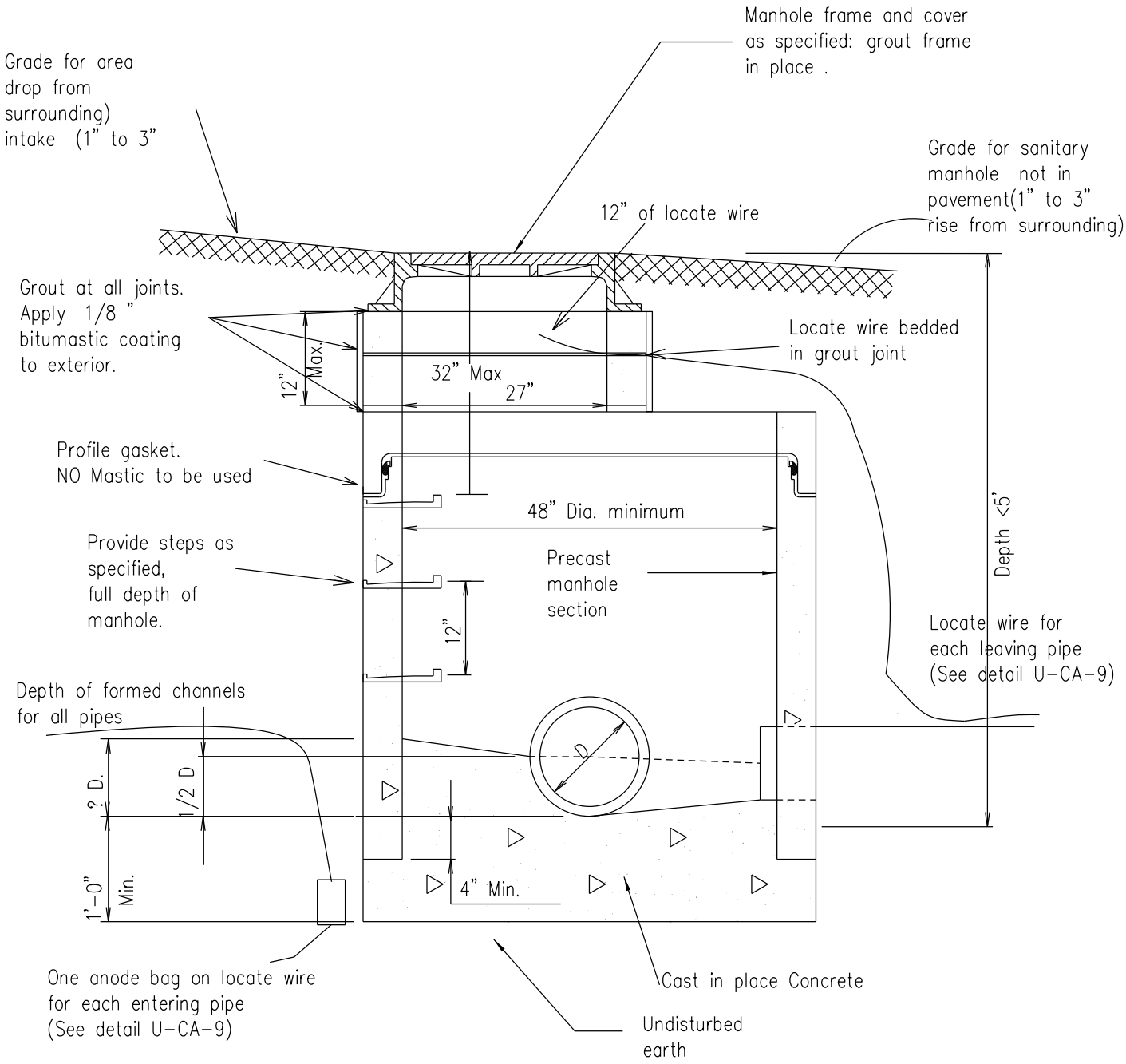
If plans note a larger diameter manhole, the larger diameter shall be used.

STANDARD SEWER MANHOLE > 5' DEEP

Mechanical Detail

U—DP—1

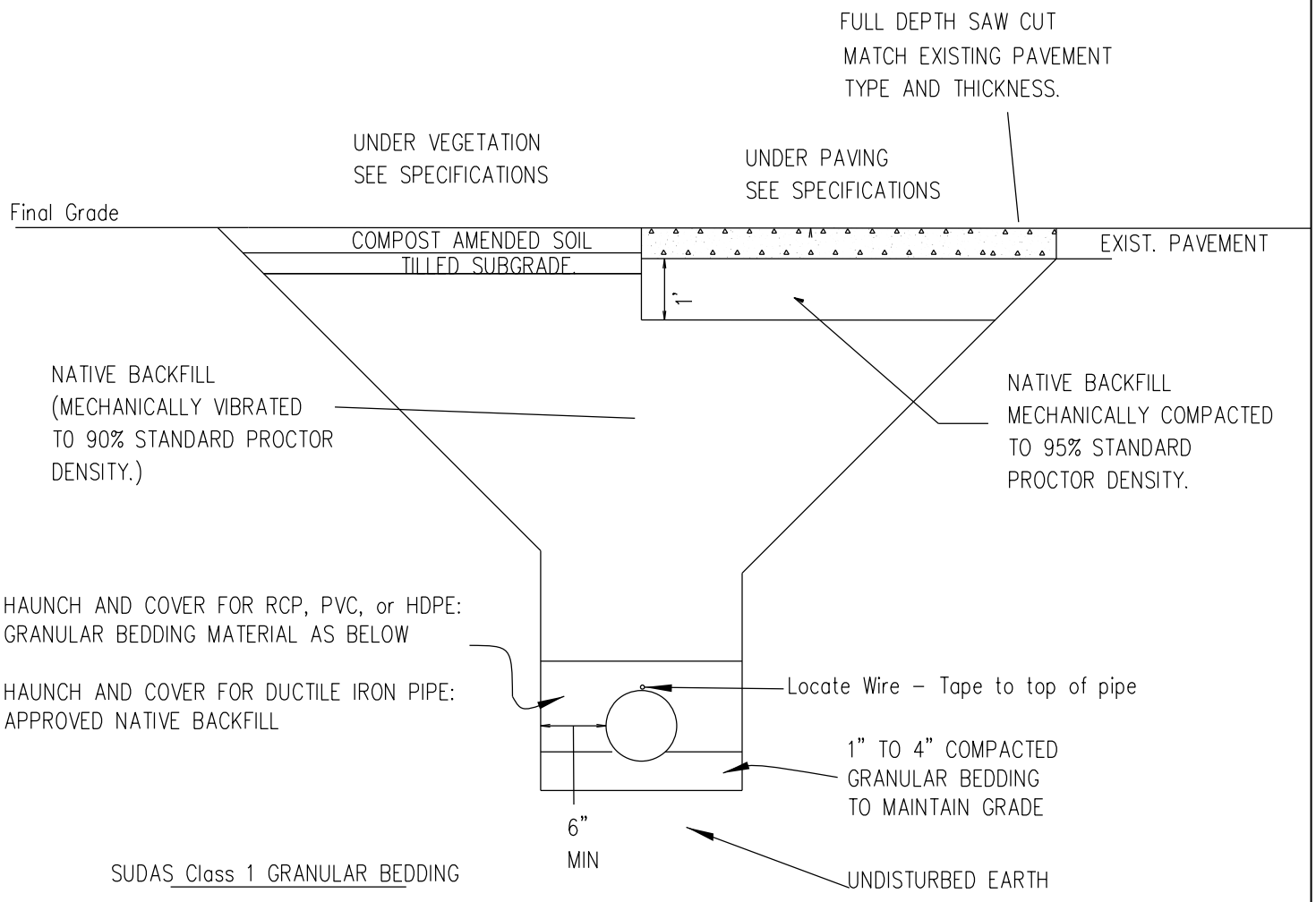
Rev 4/23/2018



Note that access hole is offset from center to be over the ladder.

If plans note a larger diameter manhole, the larger diameter shall be used.

STANDARD SEWER MANHOLE < 5' DEEP	Mechanical Detail U – DP – 2 Rev 4/23/2018



SUDAS Class 1 GRANULAR BEDDING

SIEVE	% TO PASS THRU
1"	95–100%
1/2"	25–60%
No. 4	0–10%
No. 8	0–5%

NOTE: TRENCH SLOPES SHALL CONFORM TO OSHA REQUIREMENTS

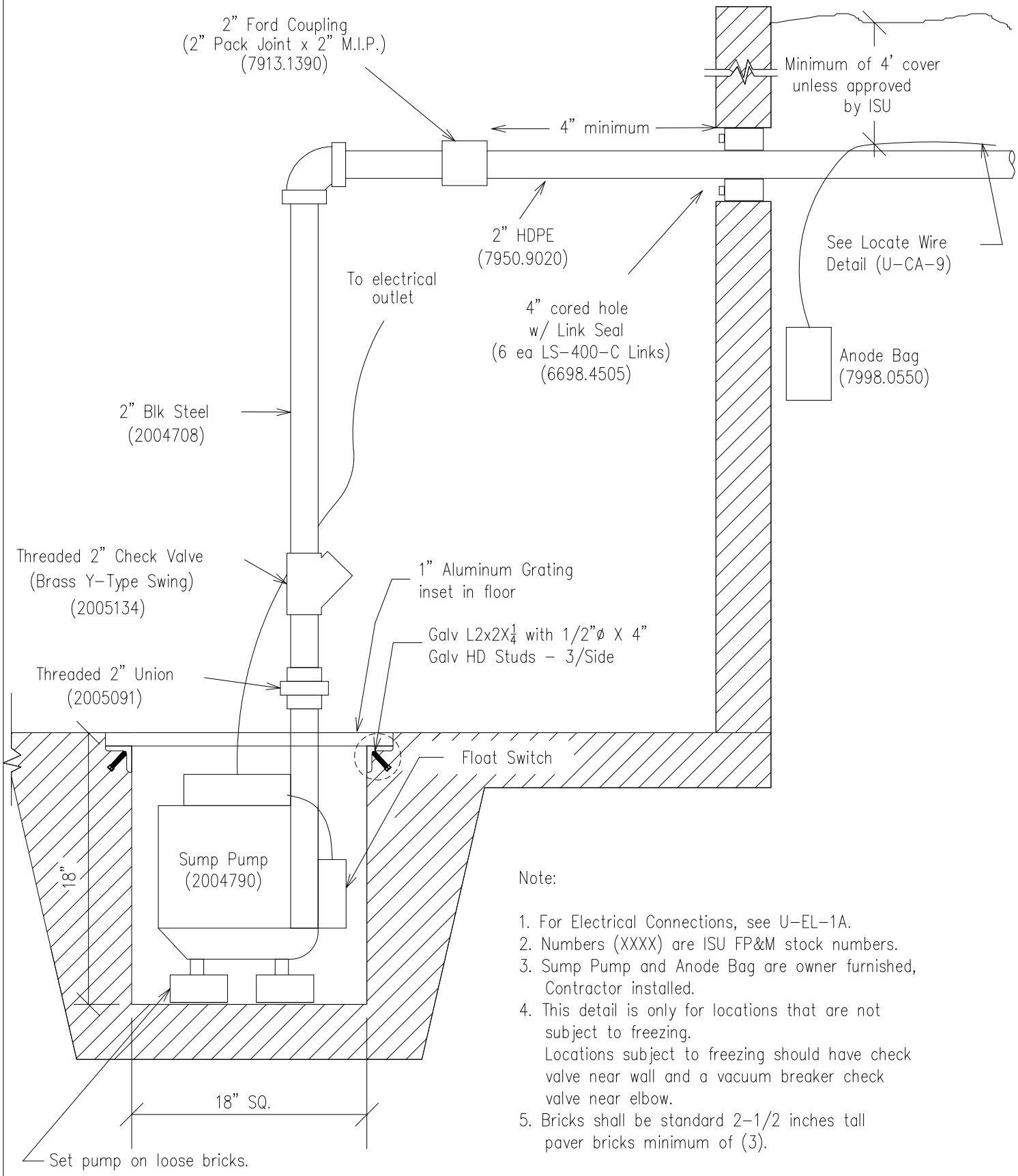
NOT TO SCALE

STANDARD SEWER PIPE TRENCH

Mechanical Detail

U – DP – 3

Rev 3/18/2016



Note:

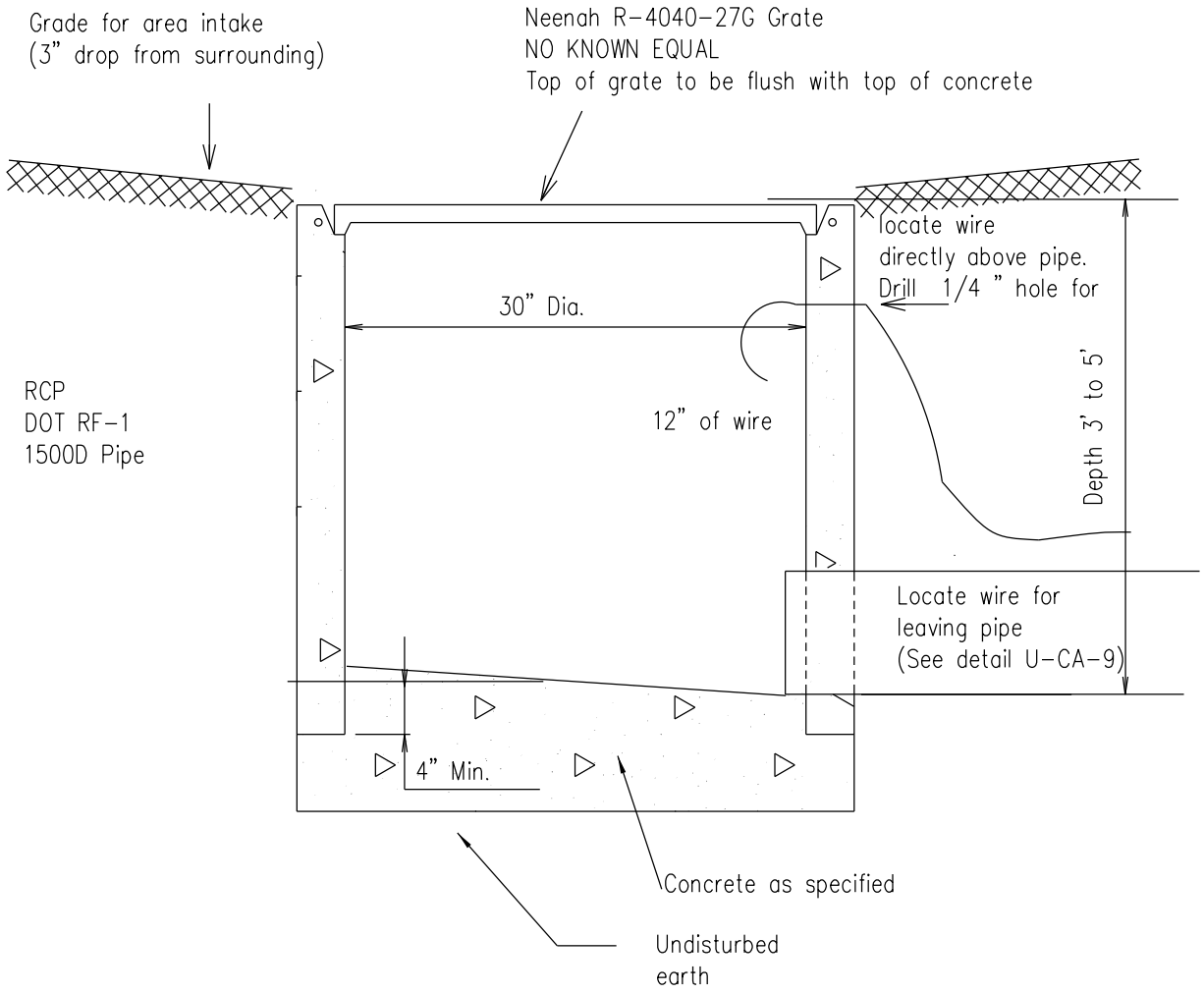
1. For Electrical Connections, see U-EL-1A.
2. Numbers (XXXX) are ISU FP&M stock numbers.
3. Sump Pump and Anode Bag are owner furnished, Contractor installed.
4. This detail is only for locations that are not subject to freezing.
   Locations subject to freezing should have check valve near wall and a vacuum breaker check valve near elbow.
5. Bricks shall be standard 2-1/2 inches tall paver bricks minimum of (3).

VAULT SUMP PUMP

Mechanical Detail

U-DP-4

Rev 9/6/2019



Notes:

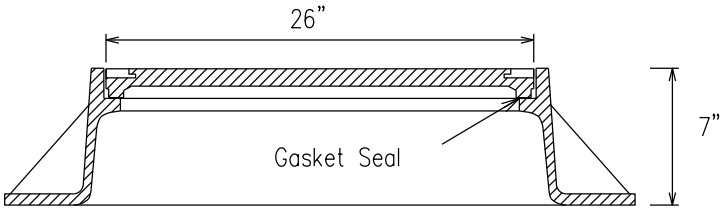
1. This intake is NOT to be used as a flow through manhole. It is to be used as a single intake only.
2. Intake shall not be designed to be less than 3' deep.
3. This intake to be used only in areas specifically approved by ISU during design..

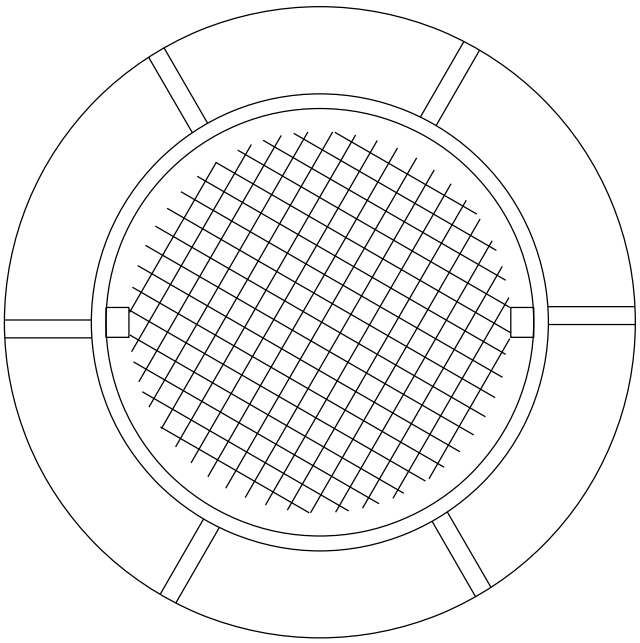
SPECIAL USE GRASS AREA INTAKE

Mechanical Detail

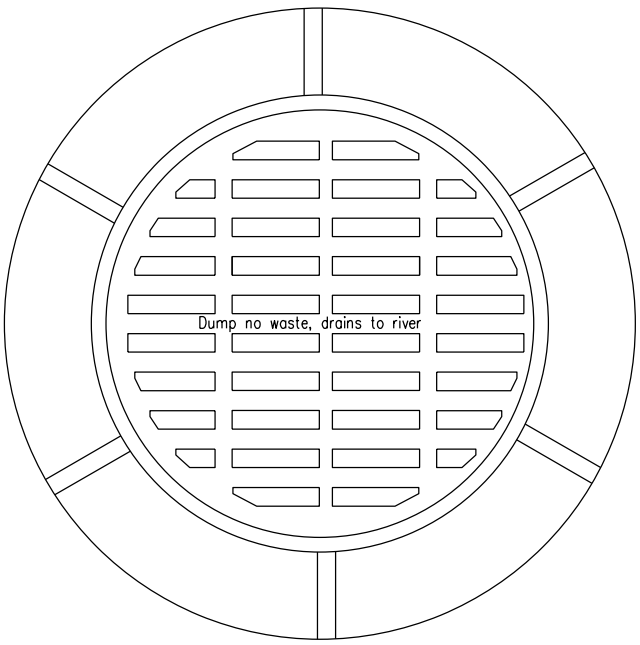
U – DP – 5

Rev 10/13/2015





Solid lid



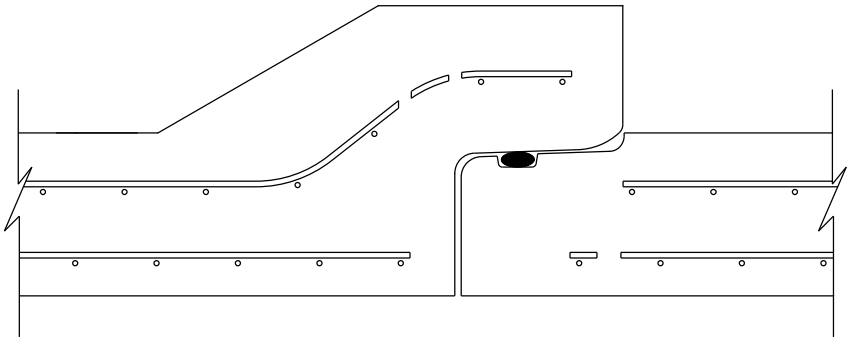
Intake showing grating and wording

MANHOLE LID CASTINGS

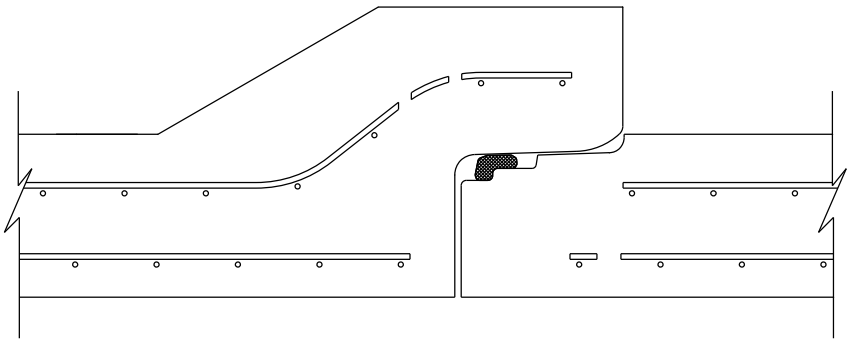
Mechanical Detail

U – DP – 6

Rev 8/17/2014



Joint showing CX-4 O ring



Joint showing P-4 Profile Gasket

1. All concrete pipe joints shall be either o-ring or profile gasket.
2. Bituminous sealant or rubber rope gasket sealant shall not be used.
3. Wrapped joints shall not be used.

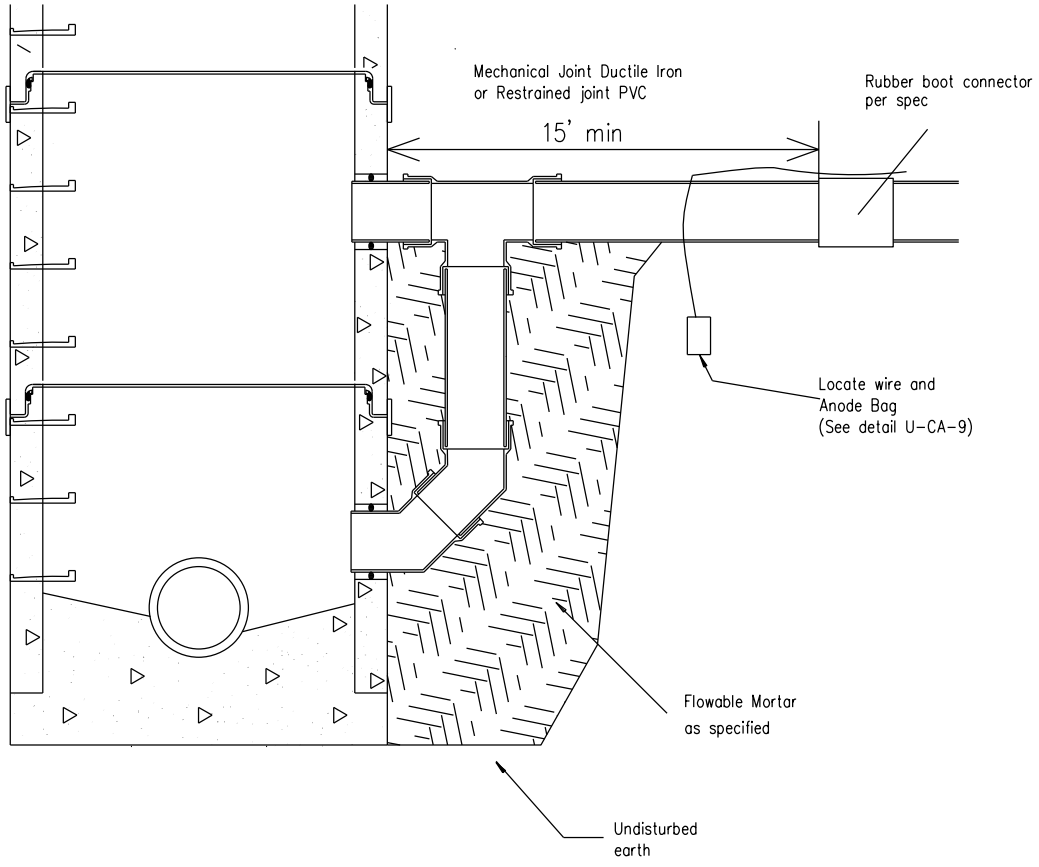
CONCRETE PIPE JOINTS

Mechanical Detail

U-DP-7

Rev 8/19/2004

1) This detail to be used in conjunction with Detail U-DP-1 Standard Sewer Manhole.
2) Maximum drop without a drop inlet shall be 2' from pipe invert to concrete.
3) Drop inlet shall discharge into concrete channel similar to an ordinary inlet.
4) Wrap joints to keep out flowable mortar.



DROP INLET DETAIL

Mechanical Detail

U-DP-8

Rev 8/17/2014

Consultant to add most recent SUDAS SW-507 Open throat intake detail.

SW-507 Open Throat Intake