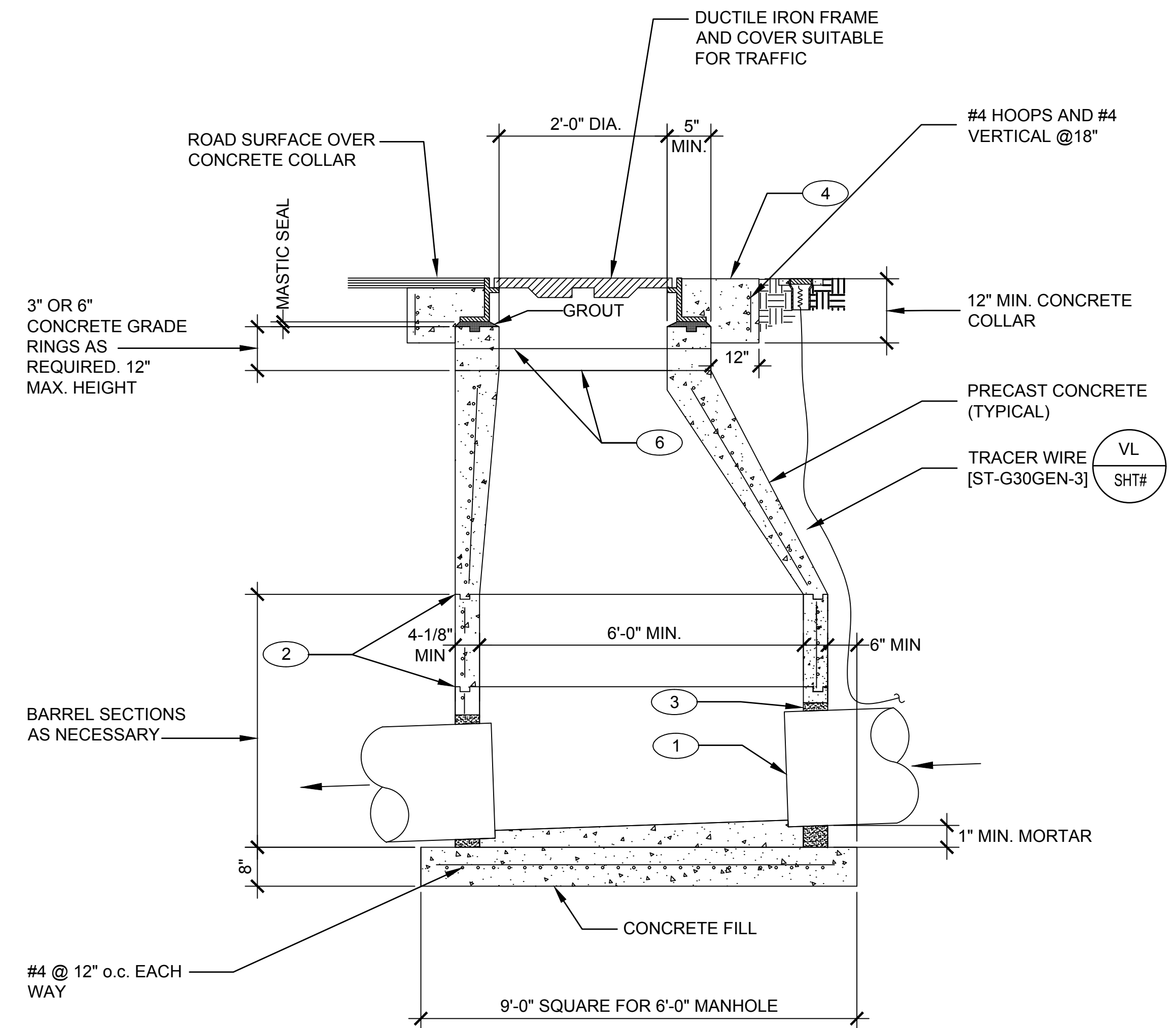


**GENERAL NOTES:**

- IF THIS SHEET IS NOT 24" X 36" USE GRAPHIC SCALE ACCORDINGLY.

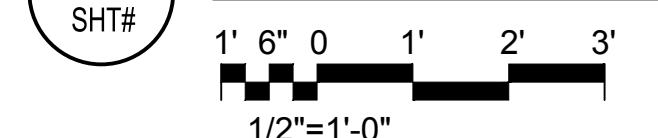
**KEYED NOTES:**

- TERMINATE ALL PIPE APPROXIMATELY 3" INTO MANHOLE.
- CLEAN ALL JOINTS AND INSTALL SEALING GASKETS.
- GROUT WATER STOP (TYPICAL).
- TEST STATION WITH 6" CONCRETE COLLAR.
- NOT USED.
- MASTIC AND/OR GROUT FOR WATER TIGHT SEAL AND THE PREVENTION OF DISPLACEMENT OF RINGS AND COVER.



DRAWING DEVELOPED FOR ML-3/ML-4 PROJECTS. FOR ML-1/ML-2, ADDITIONAL REQUIREMENTS AND QA REVIEWS ARE REQUIRED. (REMOVE THIS NOTE WHEN INSERTED INTO A DRAWING PACKAGE)

**STORM WATER MANHOLE DETAIL**



**NOTES FOR DESIGNER:** (DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

- WHEN EDITING DETAIL TO SUIT PROJECT, ADD JOB SPECIFIC REQUIREMENTS AND DELETE ONLY THOSE PORTIONS THAT DO NOT APPLY. TO SEEK A VARIANCE FROM APPLICABLE REQUIREMENTS, CONTACT THE ESM CIVIL POC.
- REFER TO THE FOLLOWING LANL STANDARDS FOR ADDITIONAL REQUIREMENTS:
  - ENGINEERING MANUAL, CIVIL CHAPTER.
  - MASTER SPECIFICATION 33 4000, STORM DRAINAGE UTILITIES.
  - MASTER SPECIFICATION 31 2000, EARTH MOVING (INCLUDES TRACER WIRE AND TEST STATION SPECIFICATIONS).
  - MASTER SPECIFICATION 33 0513, MANHOLES AND STRUCTURES.

NO	DATE	CLASS REV	DC	DESCRIPTION	DWN	DSGN	CHKD	SUB	APP
3	09/15/2016	UNCLASS		ADMIN. CHANGES TO NEW FORMAT CAD STD REV#5. MINOR DESIGN CHANGES AND INCORPORATED NOTES FROM SHEET 2 OF 2.	EJS	MS	MS	CJRR	TO
2	08/22/2006	U	DY	REVISED MANHOLE PIPING, PAD DIMENSIONS, AND SIZE. WAS 4' OR 5' DIA. REVISED KEYED NOTE #1 AND DELETED KEYED NOTE #4. NOTES 5-7 RENUMBERED ACCORDINGLY.	RP	EH	MS	EH	TO
1	08/23/2002	U		GENERAL REVISION AND DWG. NO. WAS ST3723	RP	EH	MS	EH	TO

**ENGINEERING STANDARDS**

<b>CIVIL</b>		DRAWN	R. PEARSON
<b>STORM WATER MAN HOLE DETAIL</b>		DESIGN	E. HOTH
		CHECKED	M. SMITHOUR
		DATE	6-10-02
TA- XX BLDG XXXX		APPROVED FOR RELEASE	
SUBMITTED DISCIPLINE POC: E. HOTH		STANDARDS MANAGER: TOBIN ORUCH	
Los Alamos NATIONAL LABORATORY		P0 Box 1663 Los Alamos, New Mexico 87545	
D.C.: U		REVIEWER: LARRY BAYS	DATE:
PROJECT ID		DRAWING NO	REV
<b>CHAPTER 3</b>		<b>ST-G3030-3</b>	<b>3</b>

00% REVIEW NOT FOR CONSTRUCTION

D  
C  
B  
A