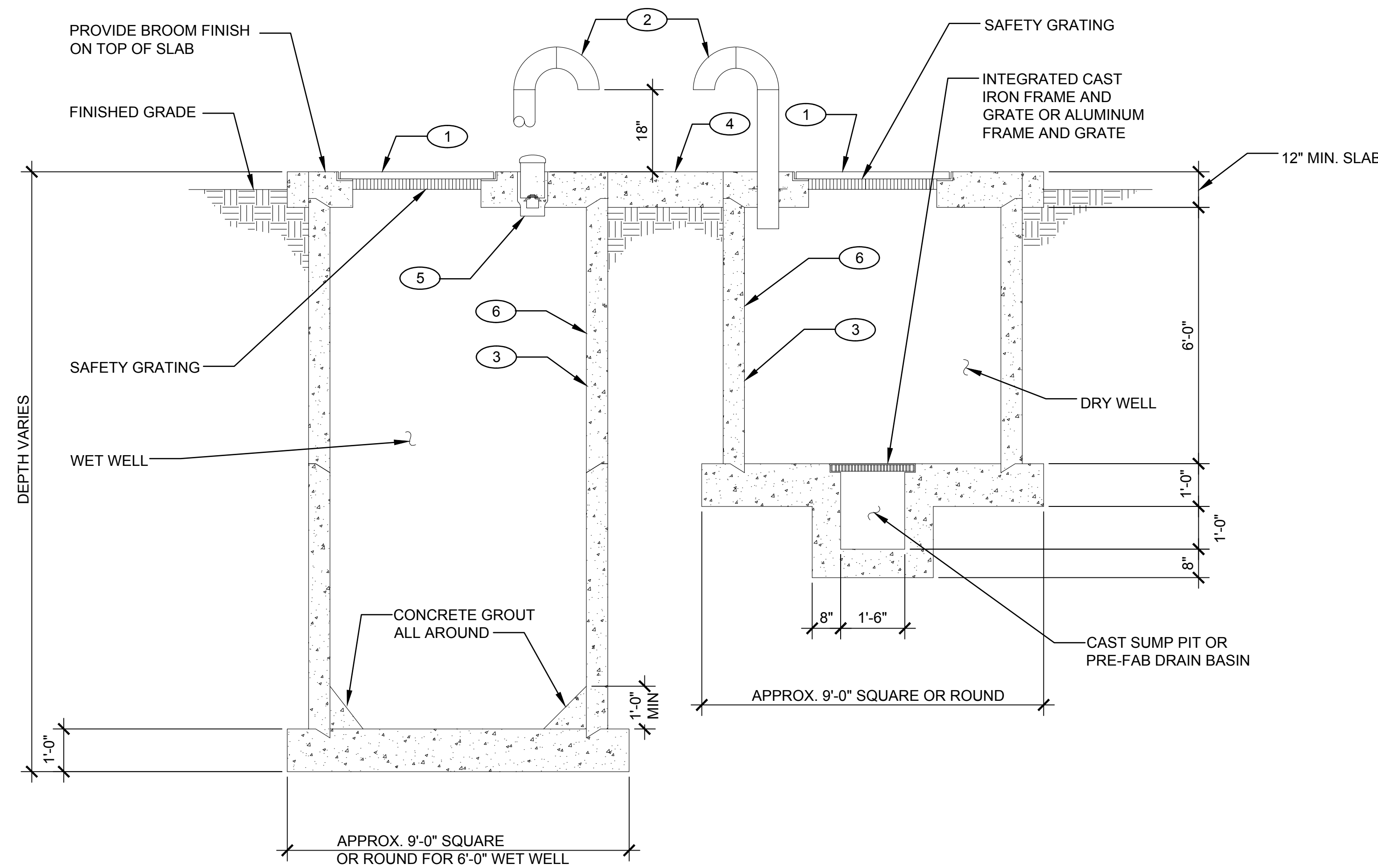


GENERAL NOTES:

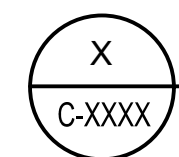
- IF THIS SHEET IS NOT 24" X 36" USE GRAPHIC SCALE ACCORDINGLY

KEYED NOTES:

- ACCESS DOOR WITH SAFETY GRATING
- 6" DIA. STEEL VENT PIPE WITH BIRD SCREEN. PAINT WITH TWO COATS EPOXY ENAMEL.
- MINIMUM 6'-0" I.D. PRECAST CONCRETE MANHOLE SECTIONS. MASTIC SEAL AT ALL JOINTS.
- COAT EXPOSED CONCRETE SURFACES WITH WATER SEAL COMPOUND.
- SEE ELECTRICAL DETAIL [SEE SHEET 4]
- COAT ALL INTERIOR CONCRETE SURFACES WITH A TWO PART HIGH BUILD EPOXY OR POLYURETHANE LINING WITH 100% SOLIDS BY VOLUME. RAVEN LINING SYSTEMS, ZEBRON CORPORATION, OR APPROVED EQUAL.



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)



LIFT STATION CONCRETE WET/DRY WELL DETAIL

SCALE: NONE

NOTES FOR DESIGNER:

(DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

- REVIEW DETAILS AND EDIT AS NEEDED TO SUIT PROJECT REQUIREMENTS
- REFER TO THE FOLLOWING LANL STANDARDS FOR ADDITIONAL REQUIREMENTS:
 - MASTER SPECIFICATION 33 3200, WASTEWATER UTILITY PUMPING STATION
 - MASTER SPECIFICATION 33 0513, MANHOLES AND STRUCTURES
 - MASTER SPECIFICATION 33 3000, SANITARY SEWERAGE UTILITIES
 - CIVIL DRAWING ST-G30GEN-1, BOLLARD DETAIL
 - CIVIL DRAWING ST-G30GEN-3, TRACER WIRE DETAIL
- TRACER WIRE REQUIRED OVER ALL PLASTIC, DUCTILE IRON, OR CAST IRON PIPING
- PROVIDE BOLLARDS IF VEHICLES ARE LIKELY TO IMPACT OR ACCESS TOP OF LIFT STATION
- LOCATE LIFT STATION SO THAT IT IS EASILY ACCESSIBLE FOR MAINTENANCE BY SERVICE VEHICLE. PROVIDE APPROX. 20 FOOT BY 50 FOOT PAD AT LIFT STATION FOR VEHICLES.
- SELECT PUMPS TO OPERATE WITHIN THE CAPACITY RANGE RECOMMENDED BY THE MANUFACTURER
- IT IS PREFERRED TO SELECT A PUMP THAT HAS A STEEP SLOPING CURVE
- LOCATE LIFT STATION ON SOUTH SIDE OF BUILDING (IF POSSIBLE)
- LOCATION OF ELECTRICAL CONTROL PANEL AND CONCRETE PAD SHALL BE DETERMINED BY FIELD CONDITIONS. COORDINATE LOCATION WITH THE LANL U&I GROUP WASTEWATER SYSTEM REPRESENTATIVE.
- GROUND ELECTRIC AND CONTROL PANELS AND RACK WITH GROUND BAR AND COUNTER POISE.
- TELEPHONE/COMMUNICATION CONDUIT TO BE MINIMUM 1 1/2 INCH SIZE WITH WOVEN POLYESTER PULL TAPE.
- LIFT STATION DEPTH SHALL NOT EXCEED 18 FEET IN DEPTH FROM FINISH GRADE TO WET WELL FLOOR.

NO	DATE	CLASS REV	DC	DESCRIPTION	DWN	DSGN	CHKD	SUB	APP
6	09/01/16	U	EJS	ADMIN CHANGES TO NEW FORMAT CAD STD REV#5. MINOR DESIGN CHANGES	EJS	MS	MS	CJRR	TO
5	01/04/2006	U	DY	ADDED "MINIMUM" AT KEYED NOTE #3	RP	EH	RT	EH	TO
4	01/27/2005	U	DY	REVISED TITLEBLOCK REVISION DATA, AND ADTS - ENGINEERING LOGO.	RP	EH	RT	EH	TO
3	08/16/2004	U		REVISED TITLE, KEYED NOTE 6	RP	EH	MS	EH	TO
2	08/26/2003	U		DWG NO. WAS ST3710	RP	EH	MS	EH	TO
1	06/05/2002	U		DRAWING REVISED AND TRANSFERRED TO CIVIL CHAPTER. DWG No. WAS ST6010, CHAPTER 6.	RP	EH	MT	EH	TO

ENGINEERING STANDARDS

CIVIL		DRAWN	R. PEARSON
LIFT STATION CONCRETE WET/DRY WELL		DESIGN	E. HOTH
		CHECKED	M. TRUJILLO
		DATE	6-28-99
TA- XX	BLDG XXXX		
SUBMITTED DISCIPLINE POC: GURINDER GREWAL		APPROVED FOR RELEASE STANDARDS MANAGER: TOBIN ORUCH	
SHEET		3	
Los Alamos NATIONAL LABORATORY		PO Box 1663 Los Alamos, New Mexico 87545	
D.C.: U		REVIEWER: LARRY BAYS	DATE:
PROJECT ID	DRAWING NO	REV	
CHAPTER 3	ST-G3020-2.3	6	

00% REVIEW NOT FOR CONSTRUCTION

D
C
B
A