U.S. DEPARTMENT OF AGRICULTURE Natural Resources Conservation Service	**WATER WELL FOR LIVESTOCK OR OTHER**	WV-ENG-63 12/15

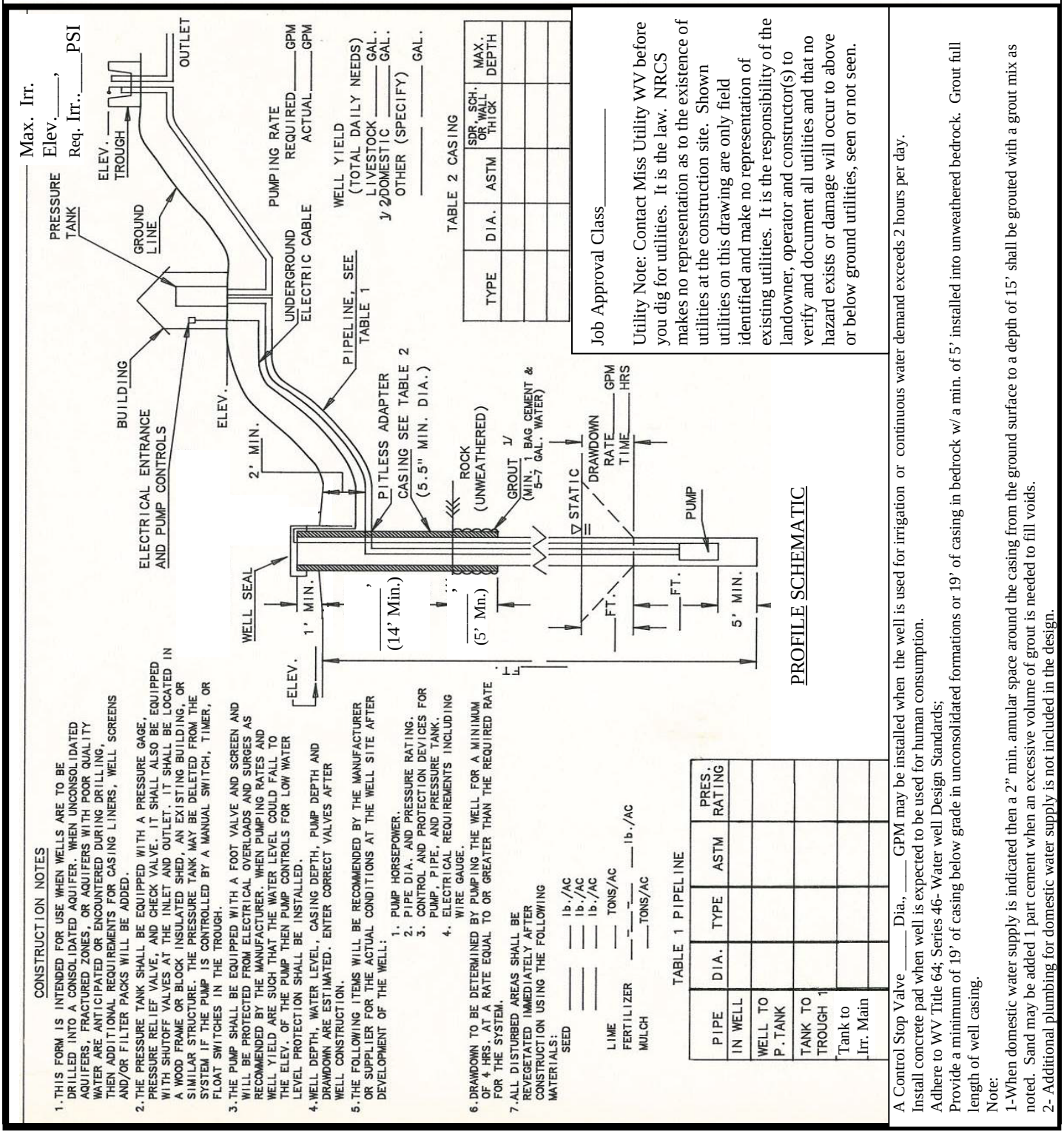
Cooperator _____ Address _____

Designed By _____ Date _____

Checked By _____ Date _____

Approved By _____ Date _____

Construction Check By: _____ Date _____



A Control Stop Valve _____ Dia., _____ GPM may be installed when the well is used for irrigation or continuous water demand exceeds 2 hours per day.
Install concrete pad when well is expected to be used for human consumption.
Adhere to WV Title 64; Series 46- Water well Design Standards;
Provide a minimum of 19' of casing below grade in unconsolidated formations or 19' of casing in bedrock w/ a min. of 5' installed into unweathered bedrock. Grout full length of well casing.
Note:
1-When domestic water supply is indicated then a 2" min. annular space around the casing from the ground surface to a depth of 15' shall be grouted with a grout mix as noted. Sand may be added 1 part cement when an excessive volume of grout is needed to fill voids.
2- Additional plumbing for domestic water supply is not included in the design.

QUANTITIES				CONSTRUCTION CHECK		
ITEM	UNIT	PLANNED	ACTUAL	TBM= 100.0 B.S.= HI= DATE:		
WELL CASING_____"DIA. _____ PIPE	LF			STA.	F.S.	ELEV.
WELL CASING_____"DIA. _____ PIPE	LF			TOP OF WELL		
WELL CASING_____"DIA. _____ PIPE	LF			PIPELINE		
WELL DRILLING	LF					
PUMP W/CONTROLS	EA					
PRESSURE TANK_____ GAL. W/CONTROLS	EA					
3 WIRE ELEC. CABLE	LF					
ELECTRIC ENTRANCE	EA					
_____"DIA._____ PIPE_____PSI	LF			BLD. FLOOR		
_____"DIA._____ PIPE_____PSI	LF			PIPELINE		
_____"DIA._____ PIPE_____PSI	LF					
PITLESS WELL ADAPTER & CASING SEAL	EA					
_____"DIA._____PIPE ELBOWS	EA					
_____"DIA._____PIPE ELBOWS	EA			TOP TROUGH 1		
_____"DIA._____PIPE TEES	EA					
_____"DIA._____PIPE TEES	EA					
CONCRETE	CF					
GROUT	CF					
PIPE CONNECTORS & UNIONS		AS NEEDED				
SEED TYPE: _____	lb					
SEED TYPE: _____	lb					
SEED TYPE: _____	lb					
LIME	TONS					
____-____-____FERTILIZER	lb					
MULCH	TONS					

SEE TROUGH DRAWING FOR QUANTITIES INVOLVING INSTALLATION OF THE TROUGH.

TBM: ASSUMED ELEV. 100.0 : DESCRIPTION:

N

PLAN VIEW OF SYSTEM

(SHOW TBM, CENTERLINES, WELL LOCATION, LOCATION OF TROUGH, LOCATION OF BUILDING FOR PRESSURE TANK, EXISTING UTILITIES, DRAINAGE PATTERNS, AND FENCE, IF NEEDED, DISTANCE TO POTENTIAL SOURCES OF POLLUTION, AND OTHER IDENTIFIABLE FEATURES.)