Before Proceeding with Construction, Call the Alabama Line Location Center ALABAMA ONE-CALL Dial 811 or 1-800-292-8525

THE NATURAL RESOURCES CONSERVATION SERVICE (NRCS) MAKES NO REPRESENTATION AS TO THE EXISTENCE OR NONEXISTENCE OF ANY UTILITIES AT THE CONSTRUCTION SITE. IT IS THE RESPONSIBILITY OF THE LANDOWNERS, OPERATORS AND CONTRACTORS TO ASSURE THEMSELVES THAT NO HAZARD EXISTS OR DAMAGE WILL OCCUR TO UTILITIES.

## **GENERAL NOTES:**

THERE WILL BE NO CHANGES IN SPECIFICATION, DIMENSIONS, OR MATERIALS UNLESS APPROVED BY THE ENGINEER RESPONSIBLE FOR THIS DRAWING.

THE DRAWINGS ARE PREPARED COOPERATIVELY BY THE NATURAL RESOURCE CONSERVATION SERVICE FOR THE NAMED LANDOWNER. CONSTRUCTION FOUND NOT IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS SHALL VIOLATE THE COOPERATIVE AGREEMENT AND ALL DRAWINGS, SPECIFICATIONS, AND QUANTITIES ESTIMATE SHALL IMMEDIATELY BE RETURNED TO THE LOCAL NRCS OFFICE.

APPLICABLE NRCS CONSERVATION PRACTICE STANDARDS:

- $\overline{\mathbf{V}}$ 442 - CENTER PIVOT IRRIGATION DESIGN
- **V** 430 - IRRIGATION PIPELINE
- 533 PUMPING PLANT

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## INDEX OF DRAWINGS

- COVER SHEET AND LOCATION MAP 1.
- 2. PLAN VIEW
- 3. **TOPOGRAPHIC MAP**
- THRUST BLOCKS DETAILS 4.

NRCS MUST BE CONTACTED MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION TO ARRANGE A PRE-CONSTRUCTION MEETING.

CLEARANCE AND PERMITS: IT SHALL BE THE RESPONSIBILITY OF THE COOPERATOR TO OBTAIN ALL NECESSARY CLEARANCES, PERMITS, RIGHTS OF WAY, AND TO COMPLY WITH ALL ORDINANCES AND LAWS PERTAINING TO THE CONSTRUCTION OF THIS PROJECT.

ALL EXCAVATION AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.



SITE LOCATION

' " N LAT -\_\_° \_\_' \_\_" W LONG.



DESIGN COMPUTATIONS ARE AVAILABLE FROM THE STATE CONSERVATION ENGINEER AT: USDA-NRCS, 3381 SKYWAY DRIVE, AUBURN, AL 36830 LOCATION MAP (Not to scale)

Drawing No. AL-ENG-442B



Nominal Pipe

Size in.

6

PIP or IPS

IPS

SDR No.

26



# CENTER PIVOT IRRIGATION PLAN VIEW

					WELL.	
MATE	RIALS				PLANNED PIPELINE	
Material (PVC 1120, etc.)	Pressure Rating (psi)	Inside Diam. (in.)	Total Length, (ft.)	Minimum Depth of Cover (in.)	THRUST BLOCK:	-
PVC 1120	160	6.115	100	30		







- (2)PUMP DISCHARGE PIPE: DIAMETER\_\_6\_INCHES
- (3) AIR-VACUUM RELEASE VALVE: TYPE COMBO DIAMETER 3 INCHES
- (4)CHECK VALVE (5) LOW PRESSURE DRAIN (11) CHEMICAL INJECTION POINT
- 6 PRESSURE GAUGE
- (7)FILTER TYPE
- $\overline{7}$ FLOW METER
- 8 PRESSURE RELEASE VALVE: DIA \_ \_ INCH, PRESSURE SET AT \_115\_PSI
- (9) SOURCE OF WATER GROUNDWATER

### PUMP SCHEMATIC n.t.s.

MATERIALS									
Nominal Pipe Size in.	PIP or IPS	SDR No.	Material (PVC 1120, etc.)	Pressure Rating (psi)	Inside Diam. (in.)	Total Length, (ft.)	Minimum Depth of Cover (in.)		
6	IPS	26	PVC 1120	160	6.115	100	30		

- WELL:
- PLANNED PIPELINE
- THRUST BLOCK:





#### Note: This standard drawing requires supporting technical documentation prior to use and must be adapted to the specific site. Arrows indicate direction of anticipated thrust.

		Thrust Block Specifications		
Location	Туре	D(in.)	D2(in.)	A(ft <sup>2</sup> )
Thrust Blo	ock Details			
ndard DWG. No. AL-EN	IG-442B.dwg			
te 5/31/2013	Sheet 2 of 2			





U.S. Department of Agriculture Natural Resources Conservation Servi Job No.	Sheet of		THRUST BLOCK	WRE IN FEET	SURE OF Sold	D= 6. 11 5	51× 45 c	• 10	1 39 86	4, 3 59 F C	
Date	OULATION	D <sup>2</sup> S <sub>ix</sub> B	EARING AREA OF	WORKING PRESS	PASSINE PRES	Z SINAZ	6) (0.512)	Six 4	(0.707) = 6	0.220	
Sheet 2002 Project Checked by	BLOCK CAL	H 8 86 1	tERE A= B.	= MAXIMUM	ALLOWABLE	0H 86	98 (369.	. 20 . 20 . 20	1 8.565	Fak "7" =	
Computation S NRCS-ENG-523A Rev. 6-2 State By	Subject	₩.	No.			A	¥ ₽	- <del>V</del>	A		