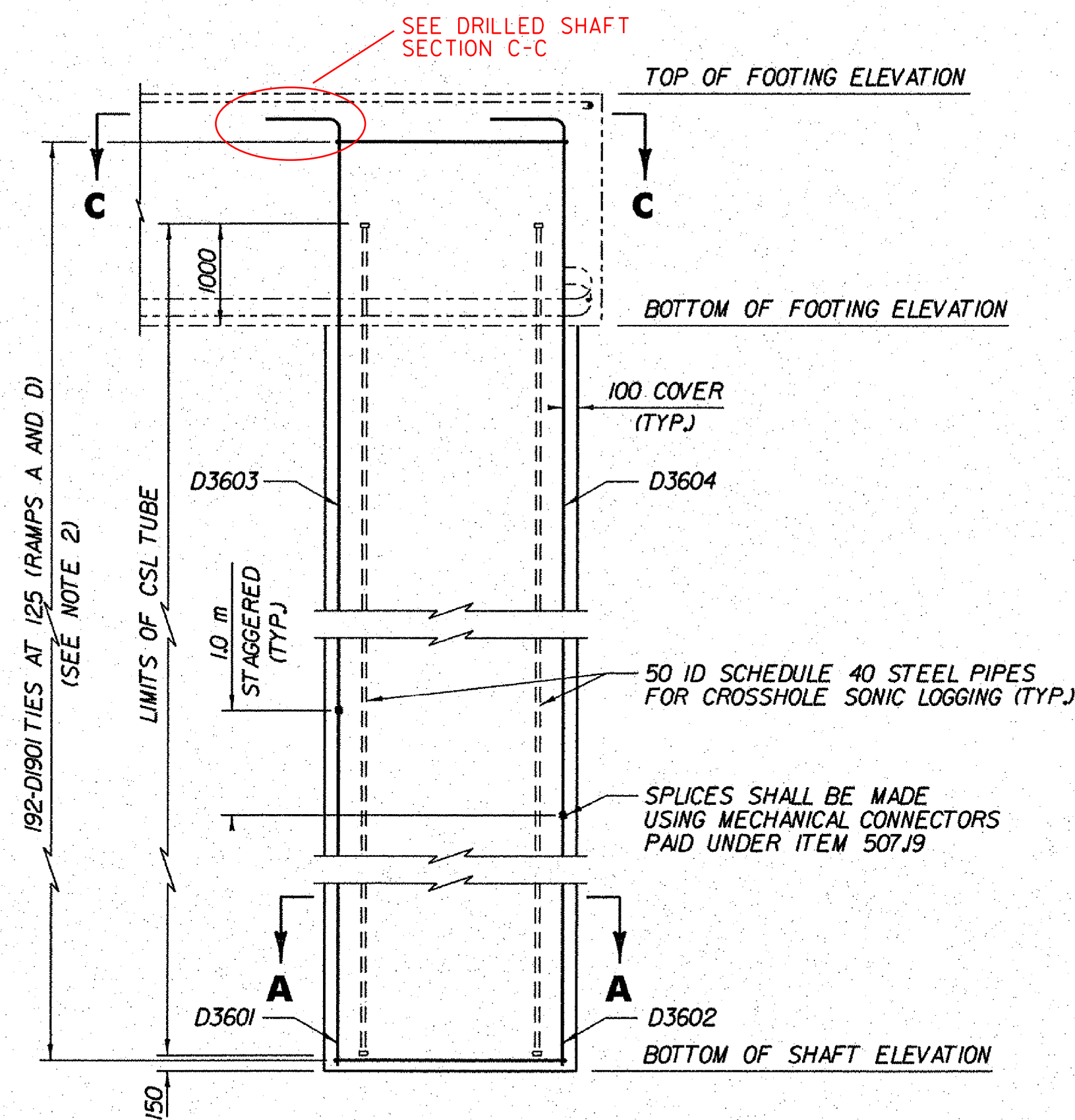
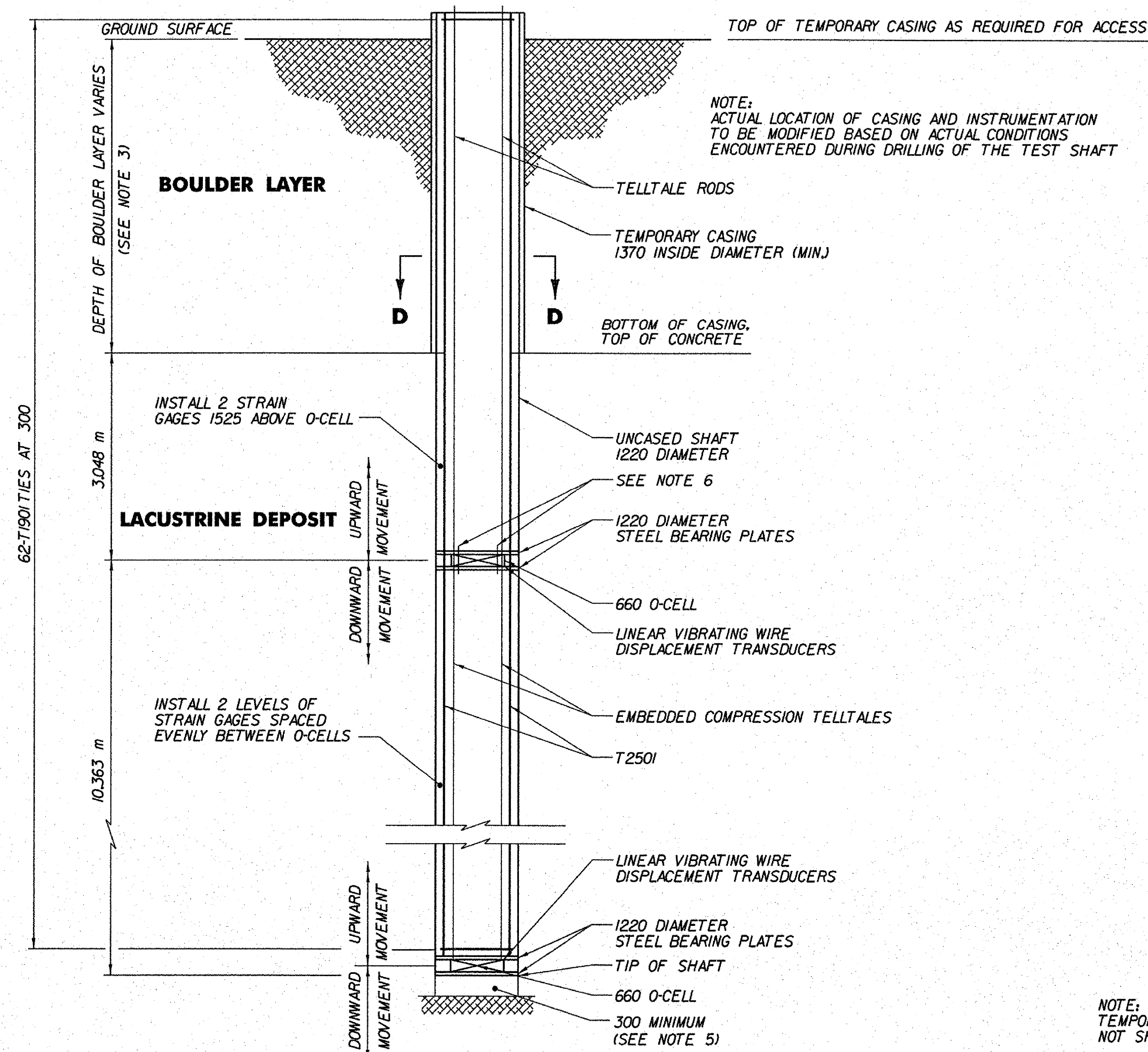


FOOTING ELEVATION TABLE			
BRIDGE	TOP OF FOOTING ELEVATION	BOTTOM OF FOOTING ELEVATION	BOTTOM OF DRILLED SHAFT ELEVATION
RAMP A	248.500	246.500	224.250
RAMP D	249.500	247.500	225.250



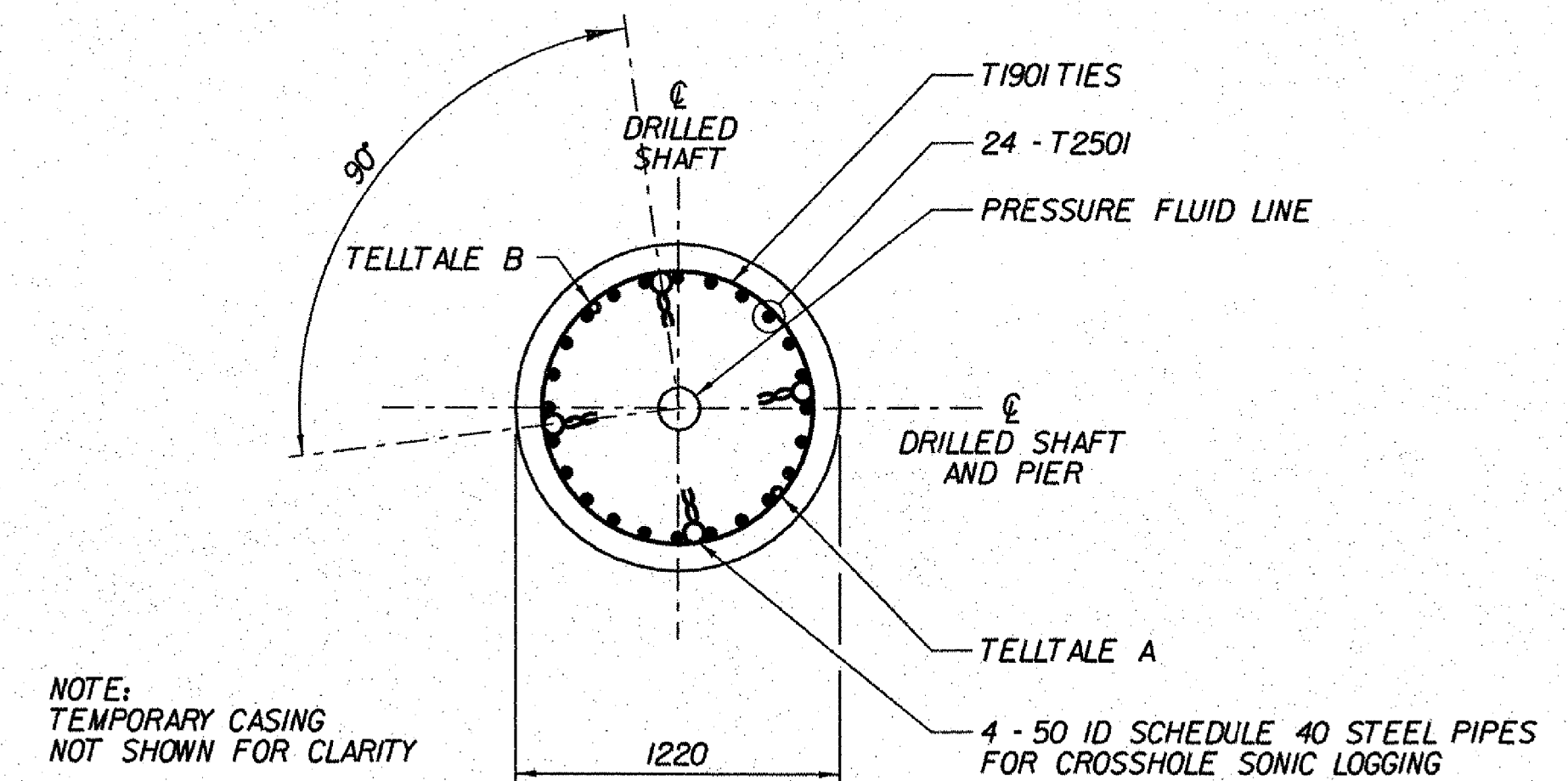
**TYPICAL DRILLED SHAFT DETAIL**  
RAMP A SHOWN AND RAMP D SIMILAR  
SCALE 1:50



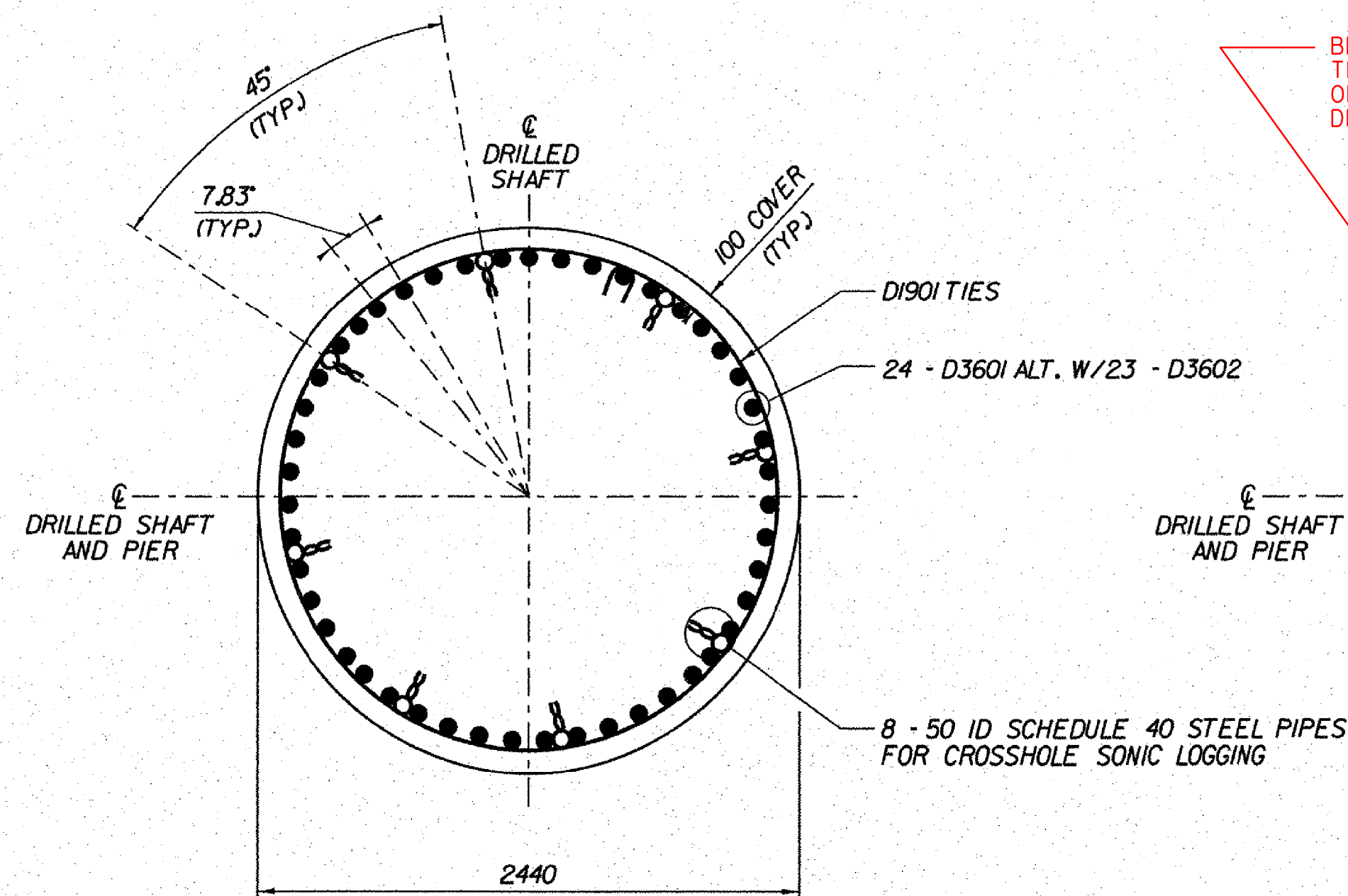
**SCHEMATIC SECTION OF TEST SHAFT**  
(5340 kN ANTICIPATED CAPACITY)  
SCALE 1:50

**NOTES:**

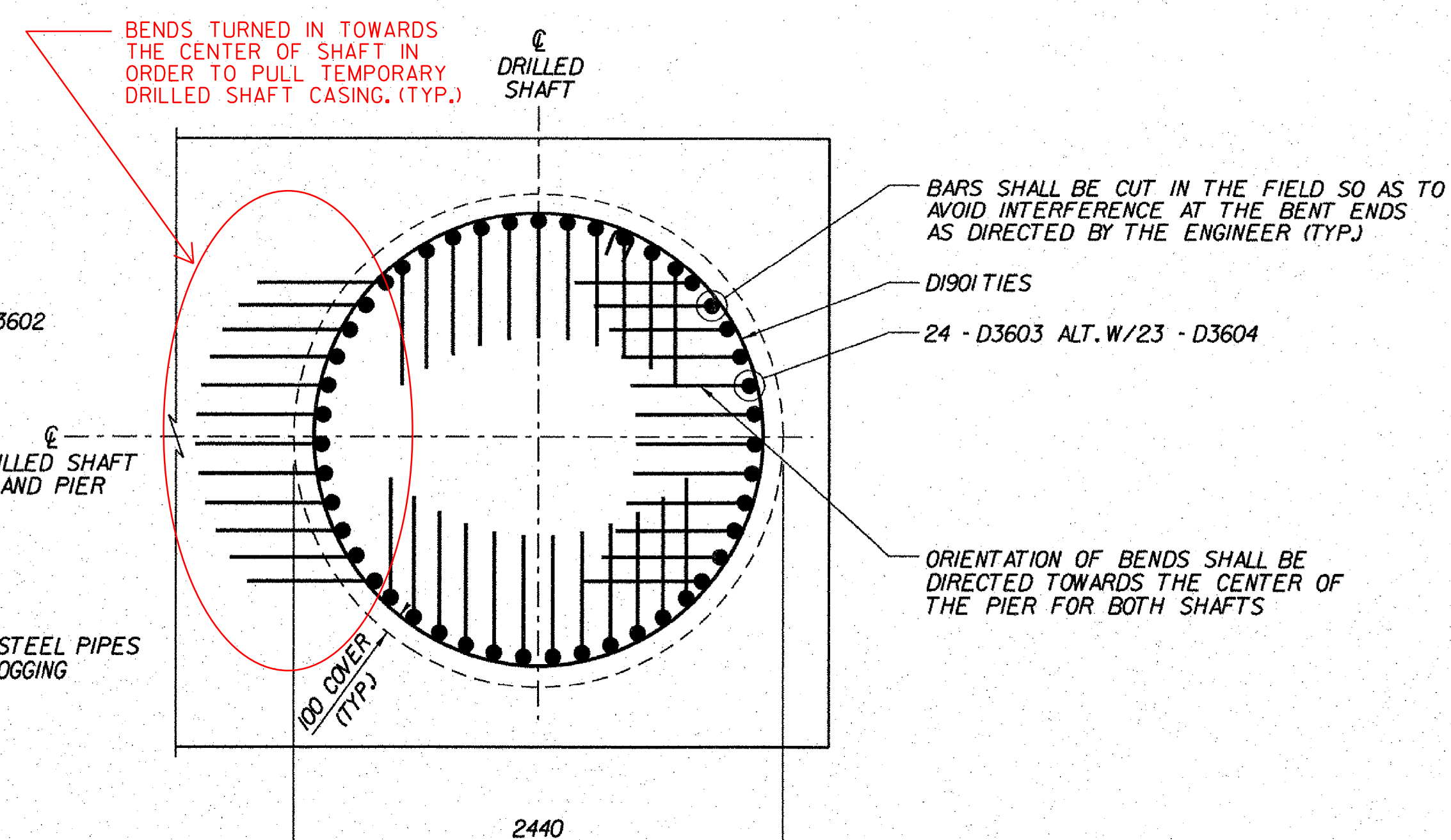
- THE DRILLED SHAFTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 900 OF THE SPECIAL PROVISIONS. THE CONTRACTOR IS ADVISED OF THE PRE-QUALIFICATIONS AND SUBMITTAL REQUIREMENTS AS DETAILED IN THE SPECIFICATION.
- THE D1901 TIES SHALL BE ADJUSTED TO AVOID THE BOTTOM MAT REINFORCEMENT IN THE PILE CAP, AS DIRECTED BY THE RESIDENT ENGINEER.
- THE DEPTH OF THE BOULDER LAYER VARIES. FOR DESIGN PURPOSES A DEPTH OF 4.500 METERS WAS ASSUMED. IF THE DEPTH IS LESS THAN 4.500 METERS THE TOTAL HEIGHT OF THE TEST SHAFT MAY BE REDUCED AS DIRECTED BY THE RESIDENT ENGINEER. IF THE DEPTH IS GREATER THAN 4.500 METERS THE CONTRACTOR SHALL EXCAVATE THROUGH THE BOULDER LAYER SO THAT THE TOP OF TEST SHAFT CONCRETE ELEVATION IS ABOVE THE BOULDER LAYER AS DIRECTED BY THE RESIDENT ENGINEER.
- ACTUAL LENGTH OF THE DRILLED SHAFTS WILL BE DETERMINED FROM TEST SHAFT TEST RESULTS.
- PLACE A 300 MINIMUM LAYER OF CEMENT GROUT MEETING THE REQUIREMENTS OF MORTAR TYPE IV, SECTION 707.03 OF STANDARD SPECIFICATIONS FOR CONSTRUCTION, TO PROVIDE A LEVEL BASE AND REACTION BLOCK FOR THE O-CELL ASSEMBLY.
- CONTRACTOR SHALL INSTALL TREMIE TUBES TO FACILITATE CONCRETE PLACEMENT BELOW THE O-CELL. TREMIE TUBES SHALL BE INCIDENTAL TO THE CONSTRUCTION OF THE TEST SHAFT AND AS APPROVED BY THE RESIDENT ENGINEER.



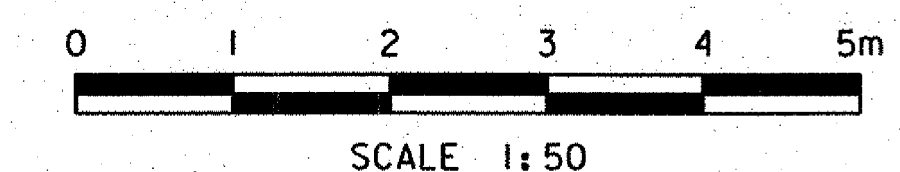
**SECTION D-D**  
NOT TO SCALE



**DRILLED SHAFT SECTION A-A**  
NOT TO SCALE



**DRILLED SHAFT SECTION C-C**  
NOT TO SCALE



**STATE OF VERMONT**  
**AGENCY OF TRANSPORTATION**

Town Of	BENNINGTON	Bridge No.	BI5N, BI5S
Highway No.	VT RTE 279	Log Sta.	
		Surv. Sta.	
VT ROUTE 279 & RAMPS OVER ROARING BRANCH OF WALLLOOMSAC RIVER			
<b>DRILLED SHAFT DETAILS (RAMPS A AND D)</b>			
Designed By	A. ODJEN	Drawn By	D.W. SHAFFER
Checked By	B.J. CARLSON	Date	06/08
		Bridge Design Supervisor	K.M. WOJTKOWSKI Date 06/08
PROJECT	BENNINGTON	PROJECT NO.	AC NH 019-(51)
TVGA CAD Drawing No.	shftdet.dgn	Date	02/02/2009
Bridge Sheet No.	BR300	Sheet	287 of 367