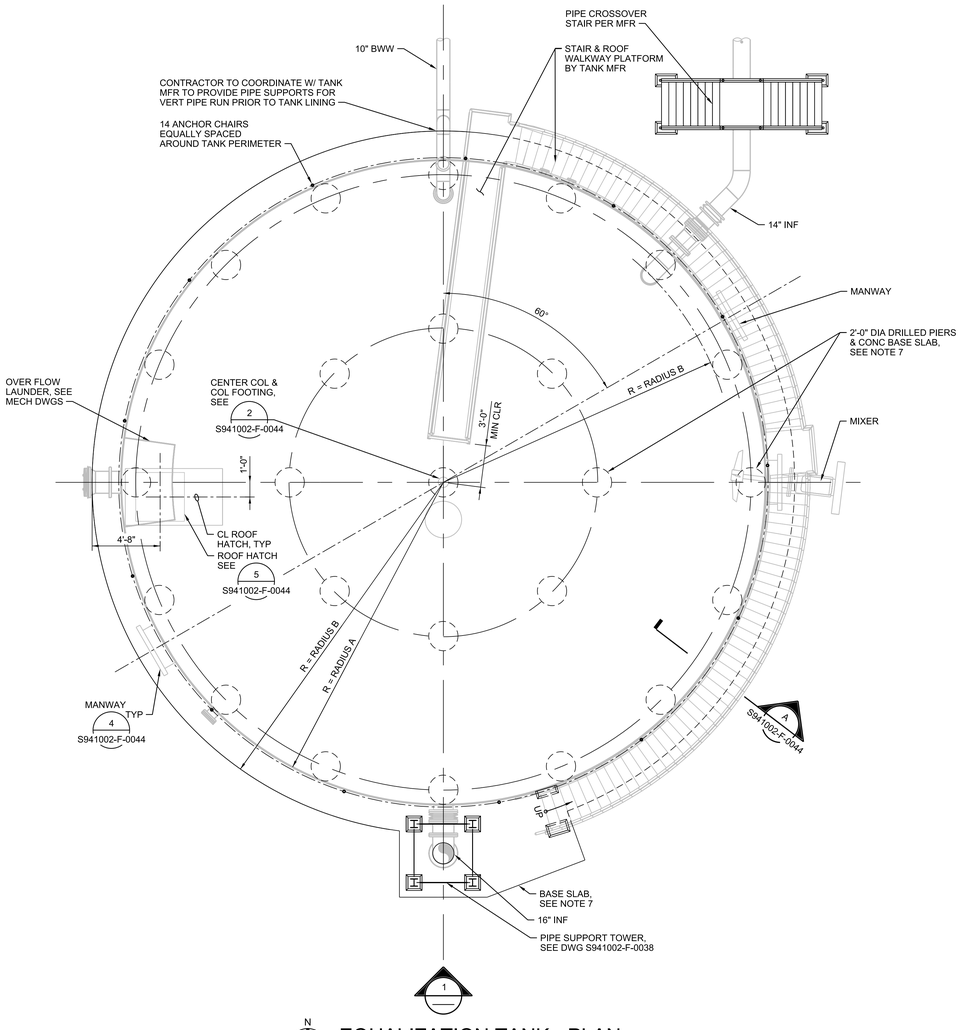
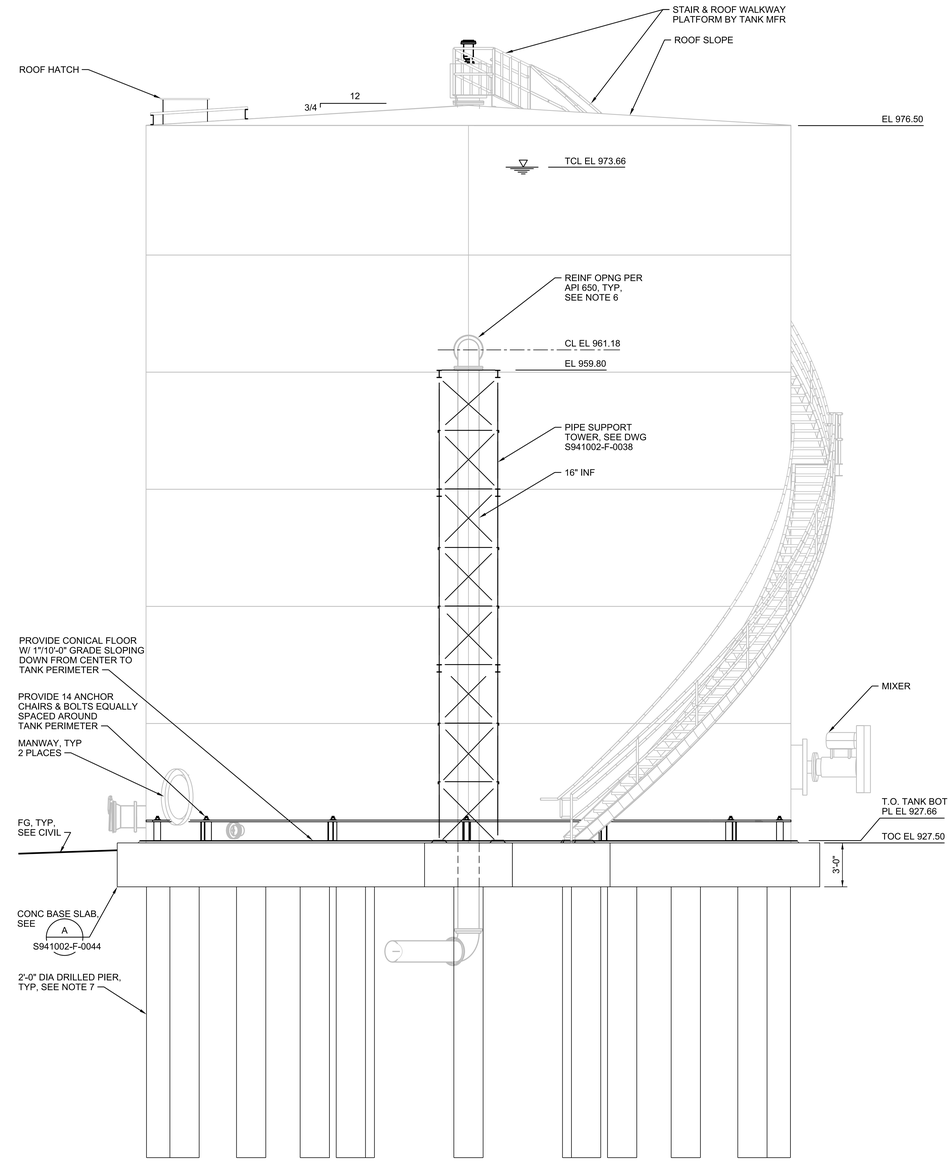


N

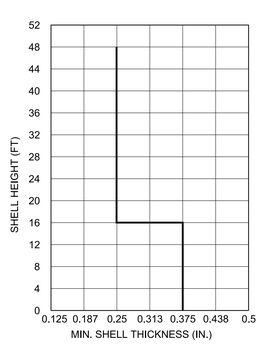
EQUALIZATION TANK - PLAN

1/4"=1'-0"



1 EQUALIZATION TANK - SOUTH ELEVATION

1/4"=1'-0"



DESIGN CRITERIA	
FULL CAPACITY	0.5 MG
SIDEWALL HEIGHT	48'-0"
RADIUS A - TANK WALL	22'-0"
RADIUS D - BASE SLAB	24'-0"

GENERAL NOTES:

1. EQUALIZATION TANK DESIGN CRITERIA:
   AWWA D100-11 AND AS MODIFIED BELOW:
   DESIGN METAL TEMPERATURE (DMT) -2 DEG F
   IMPACT (CHARPY) TEST IN ACCORDANCE WITH AWWA D100, SECTION 14.2. ACCEPTANCE CRITERIA: 15 FT - LB AT DMT.
   FABRICATE TANK SHELL FROM ASTM A516, GR. 70.
   GROUND SNOW LOAD 10 PSF
   ROOF LIVE LOAD 40 PSF
   WIND AND SEISMIC LOADS: SEE DRAWING S941001-F-0001, STRUCTURAL NOTES
2. LOCATE EQUALIZATION TANK VENT AS NEAR TO ROOF APEX AS PRACTICABLE TO PROVIDE CLEAR OPENING BETWEEN ROOF SUPPORT BEAMS.
3. EQUALIZATION TANK MANUFACTURER SHALL VERIFY THAT THE LOCATION OF THE ROOF SUPPORT COLUMN AND BASEPLATE ARE ADEQUATE.
4. COAT ALL STEEL SURFACES PRIOR TO SETTING COLUMN.
5. PROVIDE SAFETY CHAINS WITH SNAP HOOK AT OPENING TO ROOF PLATFORM. PROVIDE GALVANIZED STEEL PLATE SIGN WITH WARNING "DO NOT CLIMB OVER RAILING" ATTACHED TO ROOF WALKWAY RAILING. SIGN DIMENSIONS: 12" HIGH x 18" WIDE.
6. ALL MANWAYS AND OTHER SHELL PENETRATIONS SHALL BE IN ACCORDANCE WITH API 650, FIGURES 5-7a AND 5-8 FOR DOUBLER PLATE SIZES AND ATTACHMENTS.
7. FOR DRILLED PIERS AND BASE SLAB, SEE DRAWING S941002-F-0007.

THIS DRAWING IS LOANED FOR SOLE USE OF THE INTENDED RECIPIENT AND ONLY FOR THE LIMITED PURPOSES FOR WHICH IT WAS PROVIDED. USE BY OTHER ENTITIES OR FOR OTHER PURPOSES IS PROHIBITED AND AT THE USER'S OWN RISK. DRAWINGS ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING RECIPIENT.

PART	REV	DESCRIPTION	DRW	CHKR	DE	DVR	DM	DATE	PE	DATE	WE	AR	CV	ST	HV	EM	FP	PD	EE	IE	M	NP
	Ø	ISSUED FOR CONSTRUCTION	ILT	AF	TT		LE	06/2017														

REVISION OR ISSUE PURPOSE — REVISION APPROVALS — SQUAD CHECK

RPE: HARRY WILLIAM FIRTH, STATE OF TENNESSEE, 102322, 6/20/17

DRAWING APPROVALS		DATE
DRW	I LAPINA-TRAUT	06/16/17
CHKR	A FIRTH	06/16/17
DE	T TOVEY	06/16/17
DVR		
DM	L ELLIS	06/16/17
PE	Teresa J. Pierce, P.E.	

UCOR URS | CH2M Oak Ridge LLC

OF200 Mercury Treatment Facility
Designed by URS|CH2M Oak Ridge LLC (UCOR) for the Department of Energy
Oak Ridge Office of Environmental Management
under U. S. Government contract DE-SC-0004645

Y-12 National Security Complex managed and operated by Consolidated Nuclear Security, LLC for the Department of Energy under U.S. Government contract DE-NA0001942
• Oak Ridge, Tennessee •

PROJECT NAME: OF200 MERCURY TREATMENT FACILITY

STRUCTURAL
TREATMENT FACILITY
TANK – PLAN, ELEVATION AND NOTES

USE	DISC	DT	DC	CM	SYSTEM	STAT	SIZE	BLDG	FL	CLASS
3	S	P	B	NC	FAC	AR	E	9410-02	P	U

SH.	OF	TYPE		PART	REV
1	1	DD	S941002-F-0043	000	0

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ISSUED FOR CONSTRUCTION

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