

GENERAL NOTES: (UNLESS OTHERWISE SPECIFIED)

1. DIMENSIONS ARE IN INCHES, TOLERANCES SHALL BE AS FOLLOWS:

DECIMALS	ANGULAR	FRACTIONS
.XX±0.03	.XXX±0.010 ±3°	±1/8"

2. ESTIMATED ASSEMBLY WEIGHT: 30,500 LBS
 ESTIMATED ACCESS COVER WEIGHT: 1,000 LBS
 ESTIMATED SLOT COVER WEIGHT: 3,300 LBS
 ESTIMATED 8IN ACCESS PORT PLUG WEIGHT: 70 LBS
 ESTIMATED 6IN ACCESS PORT PLUG WEIGHT: 40 LBS
 ESTIMATED 4IN ACCESS PORT PLUG WEIGHT: 20 LBS
 ESTIMATED 8IN SPLIT SHIELD PLUG WEIGHT: 70 LBS
 ESTIMATED THERMOCOUPLE TREE SHIELD PLUG WEIGHT: 15 LBS

3. REMOVE ALL BURRS AND SHARP EDGES. ROUND ALL EDGES THAT MAY CONTACT HOSE.

4. WELD AND INSPECT STRUCTURAL WELDS PER AWS D1.1 STATICALLY LOADED STRUCTURE. VT WELDS ON FINAL PASS. ALL WELDS SHALL BE EXAMINED BY AN AWS QC-1 CERTIFIED WELD INSPECTOR.

5. SEE RPP-CALC-62204 FOR LIFTING AND STRUCTURAL ANALYSIS.

6. PREPARE AND PAINT ALL EXPOSED CARBON STEEL SURFACES WITH PPG PAINT PSX700 OR EQUIVALENT. FINISH COLOR SHALL BE WHITE. FOR ACCESS PLUGS AND COVERS FINISH COLOR SHALL BE SAFETY YELLOW. APPLY PAINT PER MANUFACTURER'S SPECIFICATIONS. POWDER COAT IS AN ACCEPTABLE COATING SYSTEM. ADD GRIT TO COVER PLATE TOP SURFACE TO PROVIDE NON-SKID SURFACE.

7. AFTER FINAL FABRICATION LABEL ASSEMBLIES WITH ASSEMBLY NAME, DRAWING NUMBER, AND ACTUAL WEIGHT. APPLY VINYL LETTERING OR PAINT APPROXIMATELY AS SHOWN.

8. ACTEK SWIVEL HOIST RING NOTES:

A. ALL SWIVEL HOIST RINGS SHALL BE AS MANUFACTURED BY ACTEK MANUFACTURING AND ENGINEERING, INC. INSTALL/RE-INSTALL THESE HOIST RINGS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, EXCEPT AS AMENDED AND DOCUMENTED IN VENDOR INFORMATION FILE #VI-50159. THE MANUFACTURER'S AMENDED INFORMATION AND/OR OTHER RELEVANT INFORMATION IS DESCRIBED IN THE FOLLOWING NOTES.

B. ALL STEEL COMPONENTS ENGAGING THE HOIST RINGS SHALL HAVE MINIMUM TENSILE STRENGTHS OF 58,000 PSI.

C. ALL ACTEK HOIST RING SCREW THREADS ARE CLASS 2A; THEREFORE, ALL TAPPED THREADS SHALL BE MATCHING CLASS 2B.

D. PRIOR TO ITS USE, EACH HOIST RING SHALL BE TIGHTENED TO TORQUE VALUE AS SHOWN BELOW:

ACTEK HOIST RING PART NUMBER	SCREW SIZE	RATED LOAD (LBS)	TORQUE FT-LBS (+/-10%)
46100-C	1/4-20	600	6
46606-C	7/16-14	2,000	22
46004-C	5/8-11	4,000	60
46702-C	1 3/8-6	20,000	540

E. IF "ANTI-SEIZE" LUBRICANT IS PRESENT IN THE THREADS OF THE HOIST RING SCREW OR IN THE TAPPED THREADS, IT MUST BE REMOVED WITH ACETONE OR ANOTHER VENDOR APPROVED SOLVENT.

F. INSPECTION OF HOIST RINGS SHALL MEET MANUFACTURER'S AND HANFORD SITE HOISTING AND RIGGING MANUAL (DOE-RL-92-36) REQUIREMENTS.

G. COLD WEATHER: HOIST RINGS SHALL BE WARMED (NOT HOT) TO ABOVE 10 °F PRIOR TO THEIR USE. HOIST RINGS WARMED DURING INSTALLATION MUST HAVE THEIR TORQUE RE-CHECKED PRIOR TO USE. HOIST RINGS SHOULD BE REMOVED AND KEPT IN A WARM LOCATION DURING EXTENDED COLD WEATHER USE.

H. REMOVE HOIST RINGS AS REQUIRED TO MINIMIZE TRIPPING HAZARDS.

J. MINIMUM SLING ANGLE IS 60 DEGREES FROM HORIZONTAL.

9. PIT, VALVE, AND EQUIPMENT EINS ARE PER THE TANK WASTE RETRIEVAL P&IDS H-14-024303.

10. SPLIT SHIELD PLUG NOTES:

A. WELDING AND INSPECTION SHALL BE IN ACCORDANCE WITH AWS D1.1. ALL WELDS SHALL BE VT FINAL PASS, WELDING QUALIFICATIONS AND PROCEDURES PER ASME SECTION IX, MAY BE SUBSTITUTED.

B. TOLERANCES (UNLESS OTHERWISE SPECIFIED):
FRACTIONS ±1/16" ANGULAR ±1°

C. BREAK ALL SHARP EDGES AND CORNERS TO .010R MINIMUM.

D. GASKET TO REMAIN UNATTACHED.

E. IDENTIFY USING 1/4" LETTER SIZE DIE STAMPING WITH THE FOLLOWING INFORMATION:
REMOVAL WEIGHT = 27 LBS PER HALF

11. 8IN SPLIT SHIELD PLUG (ITEM 9) SHALL BE USED IN PLACE OF 8IN ACCESS PORT PLUG (ITEM 5) DURING DEPLOYMENT AND CALLED OUT ON H-14-111023. SHIP LOOSELY WITH PUMP PIT AP-01A COVER PLATE ASSEMBLY.

12. ASTM A36 PLATE IS ACCEPTABLE.

13. CENTER OF GRAVITY AS INDICATED IS FOR THE COVER PLATE WITH ACCESS COVERS, SLOT COVER, ACCESS PORT PLUGS, AND SPLIT SHIELD PLUG REMOVED.

14. THERMOCOUPLE TREE SHIELD PLUG (ITEM 8) SHALL BE USED IN PLACE OF 4IN ACCESS PORT PLUG (ITEM 7) FOR INSTALLATION OF THERMOCOUPLE TREE PER H-14-111023. SHIP LOOSELY WITH PUMP PIT AP-01A COVER PLATE ASSEMBLY.

15. USE AP ARMAFLEX WITH 520 ADHESIVE OR SELF-ADHERING BACKING. FIELD TO CUT SLITS AS REQUIRED FOR OPENINGS.

PARTS/MATERIAL LIST										PART/DASH NUMBER		NOMENCLATURE/DESCRIPTION		MATERIAL/REFERENCE		SHT		ITEM NO.		
QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY											
-090	-080	-070	-060	-050	-040	-030	-020	-010												
											-010	PUMP PIT AP-01A COVER PLATE ASSEMBLY			2	1				
											-020	PUMP PIT AP-01A COVER PLATE WELDMENT			3	2				
											-030	ACCESS COVER			4	3				
											-040	SLOT COVER			4	4				
											-050	8IN ACCESS PORT PLUG			4	5				
											-060	6IN ACCESS PORT PLUG			4	6				
											-070	4IN ACCESS PORT PLUG			4	7				
											-080	THERMOCOUPLE TREE SHIELD PLUG			4	8				
											-090	8IN SPLIT SHIELD PLUG			5	9				
																10				
											-001	SPLIT PLUG BOTTOM HALF, 4 THK	ASTM A36		5	11				
											-002	SPLIT PLUG TOP HALF A, 1/2 THK	ASTM A36		5	12				
											-003	SPLIT PLUG TOP HALF B, 1/2 THK	ASTM A36		5	13				
											-004	SPLIT PLUG GAP COVER, 1/4 THK	ASTM A36		5	14				
											-005	HANDLE, 1/2 DIA ROUND BAR	ASTM A36		5	15				
											-006	RAIN DAM, 1/2 SQ BAR OR PLATE	ASTM A36		6	16				
											-007	FLAT BAR 1, 1/8 X 1 1/2 X LAR	ASTM A36		6	17				
											-008	FLAT BAR 2, 1/8 X 1 1/2 X LAR	ASTM A36		6	18				
											-009	FLAT BAR 3, 1/8 X 1 1/2 X LAR	ASTM A36		6	19				
										AR		PLATE, 4 THK	ASTM A36			20				
												PLATE, 1 1/2 THK X 6 X 6	ASTM A36			21				
										AR		PLATE, 1/2 THK	ASTM A36			22				
												PIPE, 8 SCH 40 X 1/2 LG	ASTM A53			23				
												PIPE, 4 SCH 40 X 1/2 LG	ASTM A53			24				
										1		PIPE, 2 SCH 40S X 4 LG	ASTM A312			25				
												ROUND BAR, 1/2 X 5 3/4 LG	ASTM A36			26				
											AR	AP ARMAFLEX 48" WIDE ROLL WITH 520 ADHESIVE OR SELF ADHERING BACKING, 2 THK	ARMACELL			27				
												WELD STUD, 3/8-16 UNC-2A X 2 3/4 LG	NELSON			28				
												HEAVY HEX BOLT, 1/2-13 UNC-2A X 6 LG	ASTM A193 GR B7 OR ASTM A449			29				
												FLAT WASHER, 1/2	ASTM F884 OR F436			30				
												WASHER, FLAT 3/8, GALV	ASTM F436 TYPE 1			31				
												DISTORTED LOCK NUT, 3/8-16 UNC-2B	ZINC PLATED, GRADE 5			32				
												8	46100-C	HOIST RING, 1/4-20 UNC, 600 LBS, CADMIUM PLATED	ACTEK			33		
													2	46606-C	HOIST RING, 7/16-14 UNC, 2000 LBS, CADMIUM PLATED	ACTEK			34	
													2	46004-C	HOIST RING, 5/8-11 UNC, 4000 LBS, CADMIUM PLATED	ACTEK			35	
													4	46702-C	HOIST RING, 1 3/8-6 UNC, 20000 LBS, CADMIUM PLATED	ACTEK			36	
												AR		GASKET, 3/4 THK	SEE NOTE 15				37	

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BLDG. NO. 241-AP-01A		CAUTION: NOT COMPLETE WITHOUT CURRENT CHANGE DOCUMENTS FROM DATABASE	
DRAWN BY H A MENDEZ	DATE 9/9/2020	COMPANY ARES	U.S. DEPARTMENT OF ENERGY
CHECKED BY S A SNOODGRASS	DATE 9/9/2020	AREAS	Office of River Protection
DESIGNED BY A R HAGENSEN	DATE 9/9/2020	AREAS	A-FARM RETRIEVAL
DESIGN CHECKED BY T R BYERS	DATE 9/9/2020	AREAS	AP-01A COVER PLATE
DESIGN APPROVED BY C H ANDERSON	DATE 9/9/2020	AREAS	NOTES AND PARTS LIST
INDEX NO. 9901	SIZE F	DRAWING NUMBER H-14-111032	SHEET 1
SCALE SHOWN	REV 1		01

H-15-7	A-FARM WRS AP PIT MODELS		
H-14-111014	DRAWING LIST & TITLE SHEET	1	REVISED PER EDT-882693
REF NUMBER	TITLE	REV NO.	DESCRIPTION
	REFERENCES		REVISIONS
DWG NUMBER	TITLE		
	DRAWING TRACEABILITY LIST		
	NEXT USED ON H-14-111023		