

GENERAL NOTES:

- TOLERANCES (UNLESS OTHERWISE INDICATED) :
FRACTIONAL - ± 1/8"
 - BREAK ALL SHARP EDGES AND CORNERS TO .010" RAD MIN.
 - WELDING SHALL BE IN ACCORDANCE WITH AWS D1.6. WELDING QUALIFICATIONS AND PROCEDURES PER ASME SECTION IX, MAY BE SUBSTITUTED.
 - SET PN 4 AFTER DRAIN PLUG IS INSERTED IN TO DRAIN.
 - THREAD ROD (P/N 5) BOTH ENDS WITH 1/2"-13 UNC-2A THREADS x L.A.R.
 - PERFORM INITIAL FUNCTIONAL TEST OF DRAIN ASSEMBLY AND LEAK DETECTOR. CHECK LEAK DETECTOR ANNUNCIATOR WINDOWS BY PRESSING THE TEST BUTTON. CHECK LEAK DETECTOR ANNUNCIATOR WINDOWS BEING TESTED IS OFF. ENSURE FLOOR DRAIN PLUG ASSEMBLY IS INSERTED AND CLOSED. SLOWLY ADD WATER THROUGH A COVER-BLOCK PENETRATION. NOTE: CAMERA PROCEDURE TO-020-005 MAY BE USED TO INSERT THE CAMERA INTO THE PIT FOR VERIFICATIONS. ADD WATER UNTIL LEAK DETECTOR ALARMS. IF 20 GALLONS OF WATER IS ADDED AND THE LEAK DETECTOR DOES NOT ALARM, ADJUST LEAK DETECTOR PROBES PER ENGINEERING DIRECTION. RECORD THE DATE AND TIME THE LEAK CHECK STARTED AND THE AMOUNT OF WATER ADDED. WAIT 24 HOURS AND VERIFY THE LEAK DETECTOR IS STILL IN ALARM. IF FLOOR DRAIN PLUG ASSEMBLY HAS LEAKED, CONTACT ENGINEERING. IF THE DRAIN SEAL SUCCESSFULLY PASSED THE LEAK CHECK, FWS DOCUMENT IN WORK RECORD, THE CURRENT DATE AND TIME. OPEN THE FLOOR DRAIN PLUG ASSEMBLY TO ALLOW PIT TO DRAIN. VERIFY THE LEAK DETECTOR ALARM CLEARS.
- ALTERNATE TEST: ADD UP TO 20 GALLONS OF WATER TO PIT OR MORE WITH ENGINEERING CONCURRENCE AND VERIFY WITH A CAMERA THAT THERE IS NO DETECTABLE LEAKAGE IN ONE HOUR OR THAT THE PIT LEAK DETECTOR GOES INTO ALARM WHEN THE WATER IS ADDED AND STAYS IN ALARM FOR ONE HOUR. IF THE LEAK DETECTOR WILL BE USED AS THE PASS/FAIL CRITERIA AND NOT THE CAMERA, ADD WATER SLOWLY AND STOP ADDING WATER IMMEDIATELY WHEN THE LEAK DETECTOR GOES INTO ALARM AND STAYS IN ALARM.

CONTINUED ON SH 2

PARTS/MATERIAL LIST

QTY REQD	PART/DASH NUMBER	NOMENCLATURE/DESCRIPTION	MATERIAL/REFERENCE	SHT	ITEM NO
	-010	ASSEMBLY		1	1
	-020	SUB ASSEMBLY DRAIN SEAL		1	2
	-030	SUB ASSEMBLY HANDLE		1	3
	2613K53	3" TEST PLUG, McMASTER-CARR	ST/STL & NITRILE SEAL	1	4
	AR	BAR (ROUND), 1/2" DIA	ASTM A276 TYPE 304/304L	1	5
	AR	TUBING, 1" X 0.049"-0.065" WALL THICKNESS RANGE	ASTM A249, A269 OR A312 GR TP 304/304L	1	6
	1	PIPE, 3" X 0.083 WALL (SCH 5) X 1.5" LONG	ASTM A249 OR A312 OR A778 GR TP 304/304L	1	7
	2	HEX NUT 1/2" - 13	18-8 STAINLESS STEEL	1	8
	1	WELD WIRE 1/8"	SFA-5.4 GR TP 308/308L	1	9
	1	640	STRAIGHT LINE ACTION CLAMP	1	10
	1	98497A595	TETHERED HITCH PIN, STYLE 3, 3/8"	1	11
	1	1	HEX HD CAP SCREW 1/4" 20 UNC-2A x 1 1/2" L.	1	12
	2	1	NYLON LOCK NUT 1/4" 20 UNC-2A	1	13
	1	S3100-PP	PIPE CLAMP, STANDARD SERIES	1	14
	1	1	HEX HD CAP SCREW 1/4" 20 UNC-2A x 1" L.	15	
	2	1	ST/STL FLAT WASHER 1/4"	16	
	1	-0170	SPLIT SHIELD PLUG FOR 8 INCH SCH 40 ACCESS PORT	1	17
	1	9191T63	3.5" TEST PLUG, McMASTER-CARR	1	18
	1	9191T61	3.0" TEST PLUG, McMASTER-CARR	1	19
	1	1	HEX LOCKNUT 1/2" - 13	1	20

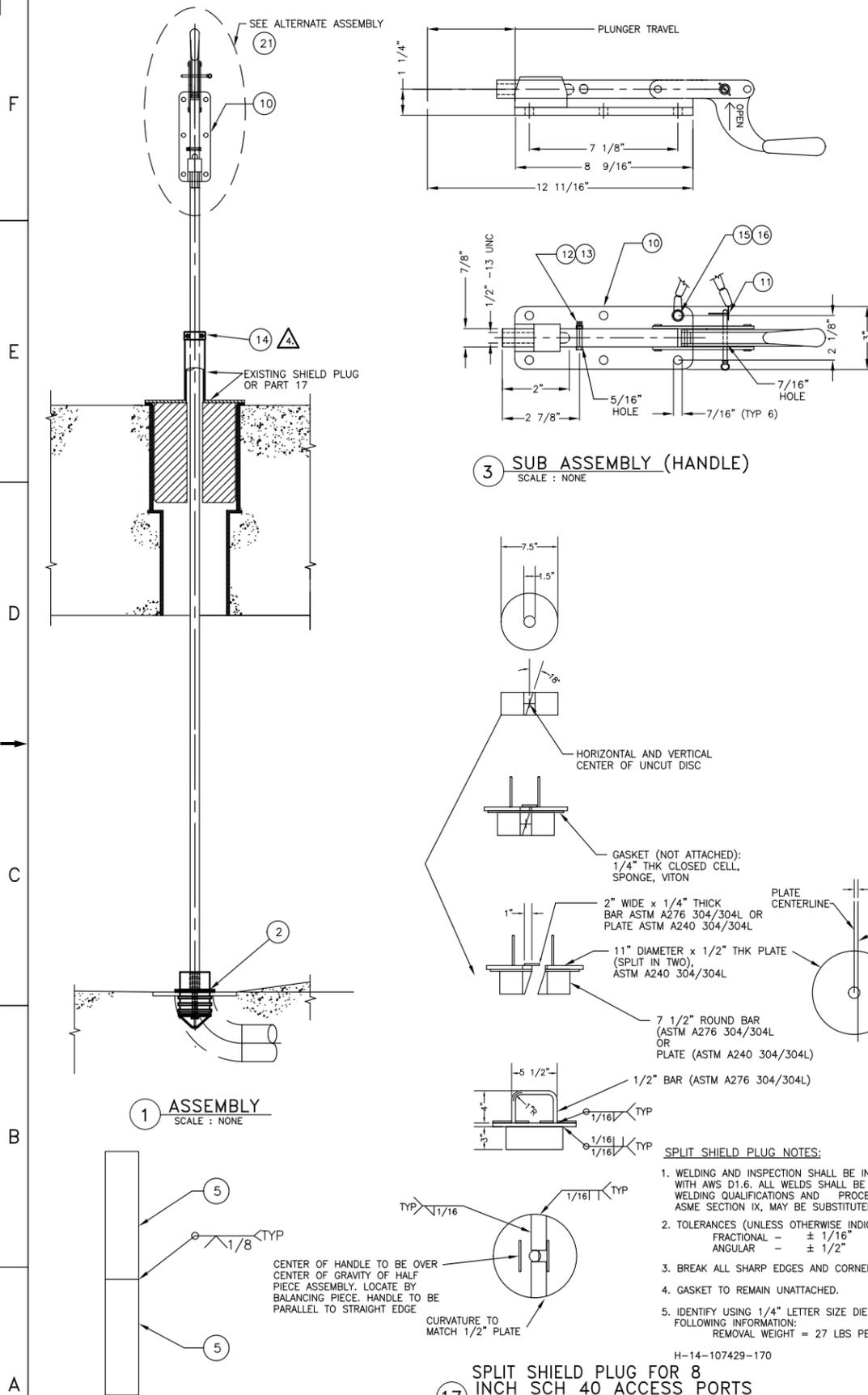
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TANK FARM & PITS	P/N 5 LENGTH SEE NOTE 16	P/N 6 LENGTH	TEST PLUG P/N
AN-01A & 06A	AS REQD	96 1/2"	4
AN-A&B	AS REQD	116 1/2"	4
AP-01A, AP-03A, AP-04A, AP-06A AP-08A	AS REQD	119"	4
AP-02A & 07A	124"	120 1/2"	4
AP-02D	185 3/4"	182 1/4"	4
AP-03D	AS REQD	166"	4
AP-05A	122.5"	119"	4
AP-VP	AS REQD	123"	4
AP-VP STORAGE SECTION	AS REQD	108"	4
AW-02A	P/N 6 LENGTH + 3.5"	IDEAL 116" MINIMUM 95" MAXIMUM 134" SEE NOTE 9	4
AW-02D	P/N 6 LENGTH + 3.5"	IDEAL 177" MINIMUM 155.5" MAXIMUM 195" SEE NOTE 9	4
AW-02E	P/N 6 LENGTH + 3.5"	IDEAL 154" MINIMUM 132.5" MAXIMUM 172" SEE NOTE 9	4
AW-03A	P/N 6 LENGTH + 3.5"	IDEAL 109" MINIMUM 87" MAXIMUM 127" SEE NOTE 9	4
AW-06A	P/N 6 LENGTH + 3.5"	IDEAL 109" MINIMUM 87" MAXIMUM 127" SEE NOTE 9	4
AW-B	P/N 6 LENGTH + 3.5"	IDEAL 124" MINIMUM 103" MAXIMUM 142" SEE NOTE 9	4

CONTINUED ON SH 2

DATE:
Oct 23, 2018

HANFORD RELEASE



- SPLIT SHIELD PLUG NOTES:**
- WELDING AND INSPECTION SHALL BE IN ACCORDANCE WITH AWS D1.6. ALL WELDS SHALL BE VT FINAL PASS. WELDING QUALIFICATIONS AND PROCEDURES PER ASME SECTION IX, MAY BE SUBSTITUTED.
 - TOLERANCES (UNLESS OTHERWISE INDICATED):
FRACTIONAL - ± 1/16"
ANGULAR - ± 1/2"
 - BREAK ALL SHARP EDGES AND CORNERS TO .010" RAD MIN.
 - GASKET TO REMAIN UNATTACHED.
 - IDENTIFY USING 1/4" LETTER SIZE DIE STAMPING WITH THE FOLLOWING INFORMATION:
REMOVAL WEIGHT = 27 LBS PER HALF

H-14-107429-170

WELD DETAIL
SCALE: NTS

DWG NUMBER	TITLE	REF NUMBER	TITLE

INCORPORATES ECN-14-000832, ECN 711704 REV 00, ECN-713744 REV 01

BLDG. NO. 241G	CAUTION: NOT COMPLETE WITHOUT CURRENT CHANGE DOCUMENTS FROM DATABASE
DESIGNER: J. T. FOSS	DATE: 10/23/2018
DESIGNER: J. W. MCELROY	DATE: 10/23/2018
DESIGNER: D. J. KENNEDY	DATE: 10/23/2018
DESIGNER: J. J. ELSEN	DATE: 10/23/2018
DESIGNER: D. J. KENNEDY	DATE: 10/23/2018
INDEX NO. 0402	SCALE: NONE

U.S. DEPARTMENT OF ENERGY
Office of River Protection

DST PIT FLOOR DRAIN SEAL ASSEMBLY

SIZE: F
DRAWING NUMBER: H-14-107429
SHEET: 1
REV: 06