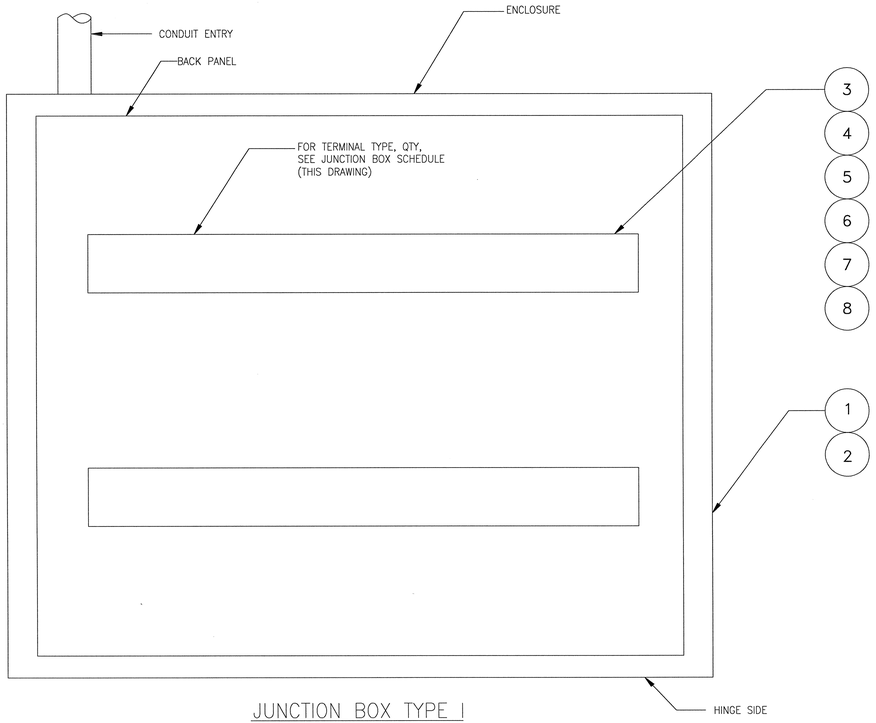
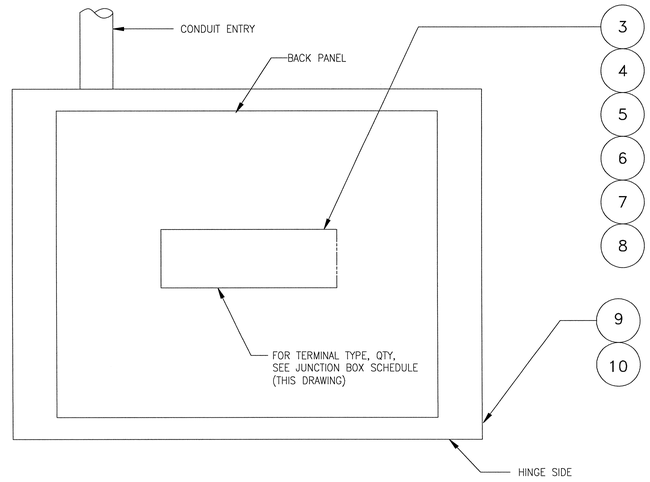


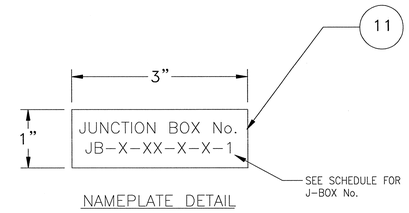
JUNCTION BOX TYPE I
(2 ROWS OF TERMINALS)



JUNCTION BOX TYPE II
(SINGLE ROW OF TERMINALS)

BILL OF MATERIALS

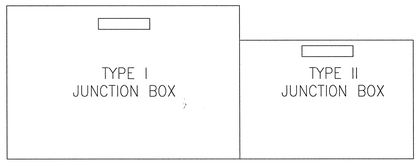
	ITEM	QTY	DESCRIPTION	MANUFACTURER	PART No.
1	1	AR	ENCLOSURE, 24"x20"x8.62"	HOFFMAN	A-24N208LP
	2	AR	BACK PANEL, 21"x18.5"	HOFFMAN	A-24N20MP
	3	AR	TERMINAL, 600V/25A	WEIDMULLER	WDU 2.5
	4	AR	TERM, THERMOCOUPLE "J"	WEIDMULLER	WDU 2.5/TC
	5	AR	TERMINAL, 600V/105A	WEIDMULLER	SAK 35
	6	AR	END STOP, TERMINAL	WEIDMULLER	EWK 1
	7	AR	END PLATE, TERMINAL	WEIDMULLER	WAP-WDU 1.5
	8	AR	MTG. RAIL SLOTTED STEEL	WEIDMULLER	TS 15
2	9	AR	ENCLOSURE, 16"x12"x8.62	HOFFMAN	A-16N128P
	10	AR	BACK PANEL, 13"x10.5"	HOFFMAN	A-16N12MP
	11	AR	NAMEPLATE	PANEL VENDOR	–



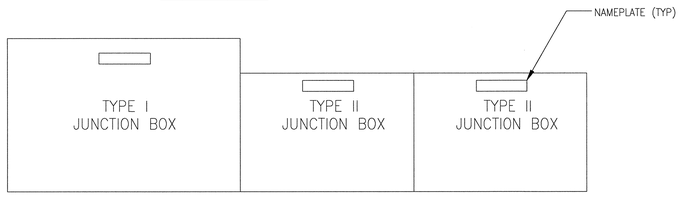
NAMEPLATE DETAIL

JUNCTION BOX SCHEDULE

JUNCTION BOX No.	JUNCTION BOX TYPE	No. TERMINALS	TERMINAL TYPE	TERMINAL P/N	MANUFACTURER	CONDUIT ENTRY SIZE	REMARKS
JB-S-108-O-1	TYPE II	12	POWER / 480 VAC	WDU 2.5	WEIDMULLER	3" CONDUIT TO TRAY	
JB-S-114-M-1	TYPE II	12	POWER / 120 VAC	WDU 2.5	WEIDMULLER	3" CONDUIT TO TRAY	
JB-S-92-L-1	TYPE II	12	POWER / 120 VAC	WDU 2.5	WEIDMULLER	3" CONDUIT TO TRAY	
JB-S-68-O-1	TYPE II	12	POWER / 480 VAC	WDU 2.5	WEIDMULLER	3" CONDUIT TO TRAY	
JB-S-6-P	TYPE II	12	POWER / 480 VAC	WDU 2.5	WEIDMULLER	3" CONDUIT TO TRAY	
JB-S-28-N-1	TYPE II	12	POWER / 120 VAC	WDU 2.5	WEIDMULLER	3" CONDUIT TO TRAY	
JB-S-38-N-1	TYPE I	60	INSTRUMENT	WDU 2.5	WEIDMULLER	3" CONDUIT TO TRAY	
JB-S-56-P-1	TYPE I	60	CONTROL	WDU 2.5	WEIDMULLER	3" CONDUIT TO TRAY	
JB-S-54-P-1	TYPE I	60	POWER / 120 VAC	WDU 2.5	WEIDMULLER	3" CONDUIT TO TRAY	LIGHTS
JB-N-44-K	TYPE II TYPE I	12 60	TYPE "J" THERMOCOUPLE CONTROL	WDU 2.5/TC WDU 2.5	WEIDMULLER WEIDMULLER	3" CONDUIT TO TRAY	DUAL BOXES, THERMOCOUPLE AND CONTROL
JB-N-118-M	TYPE I	60	CONTROL	WDU 2.5	WEIDMULLER	3" CONDUIT TO TRAY	
JB-N-122-M	TYPE II	12	CONTROL	WDU 2.5	WEIDMULLER	3" CONDUIT TO TRAY	
JB-N-118-K	TYPE II	8	POWER / CONTROL	WDU 2.5	WEIDMULLER	3" CONDUIT TO TRAY	DUAL BOXES, CONTROL AND 480 VAC POWER
JB-N-40-O	TYPE I TYPE II TYPE II	150 24 4	POWER 480 VAC/(4EA 60A) TYPE "J" THERMOCOUPLE POWER /480 VAC	WDU 2.5 WDU 2.5/TC SAK 35	WEIDMULLER WEIDMULLER WEIDMULLER	3" CONDUIT TO TRAY	TRIPLE BOXES, THERMOCOUPLE, CONTROL & (4EA) 60A 480 VAC POWER
JB-N-54-K-1	TYPE I TYPE II	150 24	POWER AND CONTROL TYPE "J" THERMOCOUPLE	WDU 2.5 WDU 2.5/TC	WEIDMULLER WEIDMULLER	3" CONDUIT TO TRAY	DUAL BOXES, THERMOCOUPLE AND CONTROL
JB-N-68-O-1	TYPE II	24	POWER / 480 VAC	WDU 2.5	WEIDMULLER	3" CONDUIT TO TRAY	
JB-N-74-P	TYPE II	18	POWER / 120VAC	WDU 2.5	WEIDMULLER	3" CONDUIT TO TRAY	LIGHTS
JB-N-86-P	TYPE II	18	POWER / 120VAC	WDU 2.5	WEIDMULLER	3" CONDUIT TO TRAY	LIGHTS
JB-N-26-K-1	TYPE II TYPE II	20 24	CONTROL TYPE "J" THERMOCOUPLE	WDU 2.5 WDU 2.5/TC	WEIDMULLER WEIDMULLER	3" CONDUIT TO TRAY	DUAL BOXES, THERMOCOUPLE AND CONTROL
JB-N-32-N-1	TYPE II TYPE II	12 24	CONTROL TYPE "J" THERMOCOUPLE	WDU 2.5 WDU 2.5/TC	WEIDMULLER WEIDMULLER	3" CONDUIT TO TRAY	DUAL BOXES, THERMOCOUPLE AND CONTROL
JB-N-32-P-1	TYPE II	18	POWER / 120VAC	WDU 2.5	WEIDMULLER	3" CONDUIT TO TRAY	LIGHTS
JB-N-114-P	TYPE II	18	POWER / 120VAC	WDU 2.5	WEIDMULLER	3" CONDUIT TO TRAY	LIGHTS



DUAL JUNCTION BOX CONFIGURATION



TRIPLE JUNCTION BOX CONFIGURATION

NOTES:

1. THIS IS A TYPE I JUNCTION BOX.
2. THIS IS A TYPE II JUNCTION BOX.

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NUMBER OF SECTION OR DETAIL
DRAWING ON WHICH SECTION OR DETAIL IS SHOWN
SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY
CHANGE CONTROL SYSTEM 3
ENGINEERING PROCEDURE SNS-ENG-G001

REV	CHANGE TYPE	CHANGE CONTROL SYSTEM	CHANGE REQUEST NUMBER	DESCRIPTION	DSN	CHK	DEPT	DATE	PE	DATE	PJ	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE	ST	CV	EC	EE	EM	IE	M	PD	SE	AR
0				CERTIFIED FOR CONSTRUCTION 10/26/01	LJF	JWH			WD	11/1/01	RAO	11/2/01			MB	11/2/01	JWH	107492	10/26/01										

REVISION OR ISSUE PURPOSE — REVISION APPROVALS — SQUAD CHECK

RPE: BURLY WAYNE HARRIS, REGISTERED ENGINEER, AGRICULTURE, 107492, STATE OF TENNESSEE

REV. 0 DATE 10/26/01

DRAWING APPROVALS

DSN		10/24/01
DRW		10/24/01
CHK		10/27/01
DEPT		
PE		11/13/01
PJ		11/12/01
REQ		
UTB		11/12/01

108030700-J8E-8700-A008

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MERRICK Engineers & Architects

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PROJECT NAME:
SPALLATION NEUTRON SOURCE

TARGET BUILDING
JUNCTION BOX SCHEDULE, DETAILS, AND BILL OF MATERIALS

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	J	X	X	8	8700		1	1	G	U

51	52	53	WBS		REV
NC	NA	IN	1.8.3.7	J1.17.33	0

J1.17.33