

1. FOR GENERAL NOTES, SYMBOLS & REFERENCE DWGS SEE DWG. D-5023
2. COVERS SHALL BE PROVIDED FOR ALL BOXES UNLESS OTHERWISE SPECIFIED.
3. BOXES SHALL BE SURFACE MOUNTED, UNLESS OTHERWISE SPECIFIED.
4. THE LOCATION OF BOXES FROM MOUNTING SURFACES, AS SHOWN ON LAYOUT DRAWINGS IS A MAXIMUM DIMENSION. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR TO SUIT MOUNTING CONDITIONS. IN CASES WHERE THE MAXIMUM DIMENSION SHOWN ON THE LAYOUT DRAWINGS MUST BE EXCEEDED, CONTRACTOR SHALL RECEIVE WRITTEN PERMISSION FROM THE ENGINEER. BOX LOCATIONS ON LAYOUT DRAWINGS HAVE A ± 2 INCH TOLERANCE IN ALL OTHER DIRECTIONS.
5. HOLES FOR CONDUITS TO BE FIELD PUNCHED OR DRILLED AS REQUIRED, SO THEY OUTSIDE EDGE OF CONDUITS LINE UP, WHERE PRACTICAL.
6. ALL BOXES MUST BE PURCHASED AND INSTALLED IN ACCORDANCE WITH REQUIREMENTS BOX DETAILS (THIS DWG.) AND INSTALLATION SPECIFICATION 3240-503.
7. WHEN INSTALLING FLUSH MOUNTED BOXES (TYPE 11) IN FLOOR SLABS OR WALLS, CARE SHOULD BE TAKEN TO AVOID LEAKAGE OF CONCRETE INTO THE BOX.
8. BOX IDENTIFICATION NUMBERS SHALL BE PROVIDED ON EACH BOX AT TWO LOCATIONS. ONE ON THE INTERIOR LOCATED SO AS TO AVOID BEING COVERED BY TERMINAL BLOCKS OR CABLING AND ONE IN THE CENTER ON THE EXTERIOR SIDE OF THE COVER. IDENTIFICATION SHALL BE IN ACCORDANCE WITH GENERAL NOTES (DWG. D-5023, SECT. 6.0 PARA. 6.05). BOX IDENTIFICATION (D.W.G. D-5023, SECTION 6.0) SHALL BE "TB" FOR ALL BOXES CONTAINING TERMINAL BLOCKS OR CONNECTORS AND "1" FOR ALL OTHER BOXES. ACTUAL BOX IDENTIFICATION SHALL BE AS SHOWN IN THE CCL (DWG. B-5016).
9. CABLE VAULT BOXES
FOR SUPPORT OF BOXES CONNECTED TO CABLE TRAYS IN CABLE VAULT, SEE SEISMIC SUPPORT DETAILS, A/S DWG. G-3477.
10. FURNISH & INSTALL CU SPLIT BOLT CONNECTOR WITH PREFORMED INSULATING COVER FOR 600V, 60HZ RECEPTACLES WITH #2 AWG. INSUL. CU. RUN & TAP. BURNDY CAT. #CKS 2, OR ENGINEER APPROVED EQUAL.
11. ALL BOXES DESIGNATED AS SA, SB, SC, SD, SMAR, SMBR, SMCR, SMDE, EMB, OR EMB, OR AS NOTED IN ACCORDANCE WITH NOTE 14, ARE CONSIDERED SEISMIC CATEGORY 1 BOXES.
12. ENGINEERED (SAFETY OR NON-SAFETY SEISMIC) BOXES
FOR SEISMIC SUPPORT DETAILS OF ENGINEERED, SAFETY RELATED AND NON-SAFETY RELATED BOXES (WHEN REQUIRED), SEE A/S DWG. 3240-G-3479, SHT 14.

13. FIELD RUN (SAFETY OR NON-SAFETY SEISMIC) BOXES
FOR SEISMIC SUPPORT OF SAFETY AND NON-SAFETY RELATED BOXES (WHEN REQUIRED) FOR FIELD RUN CONDUITS USE MOUNTING DETAILS OF SUIT AS SHOWN ON SHEETS 4, 4A, 4B, 4C, 4D, 4E, & 4F. FOR NAB & THE USZ SHEETS LAYER) FOR REACTOR BLDG. AND CONDENSATE AND REFORMING WTR. STOR. TANK AREA.
14. FABRICATION NOTE (NON-SAFETY SEISMIC BOXES)
NON-SAFETY RELATED BOXES LOCATED IN SAFETY DESIGNATED AREAS SHALL BE FABRICATED AS SEISMIC CATEGORY 1 BOXES.
15. ENGINEERED (NON-SAFETY, NON-SEISMIC) BOXES
ENGINEERED NON-SAFETY RELATED BOXES LOCATED IN NON-SAFETY AREAS SHALL BE SUPPORTED AS REQUIRED BY CONTRACTOR.
16. REACTOR BUILDING BOXES
ALL BOXES LOCATED INSIDE CONTAINMENT SHALL HAVE 1 (ONE) 2 INCH DIA (MAX) HOLE IN THE UNDERSIDE TO PROVIDE DRAINAGE. DRAIN HOLE TO BE FIELD DRILLED TO AVOID INTERFERENCES WITH BOTTOM CONDUIT ENTRY. COVER OPENING SHALL BE PROVIDED IN THE BOX COVER TO ENSURE PRESSURE EQUALIZATION. THE TOTAL AREA OF THE LOWER OPENING SHALL BE IN ACCORDANCE WITH THE FOLLOWING FORMULA:
 $A = \text{BOX VOLUME (CU. IN.)} \times .00028$, WHERE THE TOTAL AREA (A) REQUIRED FOR PRESSURE EQUALIZATION IS IN SQUARE INCHES.
17. FIELD RUN (NON-SAFETY, NON-SEISMIC) BOXES
EXACT LOCATION OF BOXES FOR FIELD RUN CONDUIT SHALL BE DETERMINED AND SUPPORTED AS REQUIRED BY CONTRACTOR.
18. BOX RELOCATION
SHEET STEEL BOX MATERIAL (ASTM A569 OR A606) FOR NON SAFETY RELATED BOXES USED FOR FIELD RUN CONDUITS WAS SELECTED BASED ON PROPOSED BOX LOCATIONS AS INDICATED IN THE CCL UTILIZING THE PLANT SEISMIC DWG. IF CONTRACTOR RELOCATES NON SAFETY RELATED BOXES FROM A NON SEISMIC AREA TO A SEISMIC AREA TO SUIT FIELD CONDITIONS, CONTRACTOR SHALL BE RESPONSIBLE TO REVISE THE BOX MATERIAL TO MEET SEISMIC REQUIREMENT IN ACCORDANCE WITH THE PLANT SEISMIC DRAWINGS.
19. ALL BOXES SHALL BE FABRICATED FROM SHEET STEEL WITH THICKNESS AS SHOWN IN TABLE BELOW. USE COVER THICKNESS FOR ALL SIDES, TOP & BOTTOM ON ALL TRAY BOXES.

BOX SIZE	MINIMUM SHEET STEEL THICKNESS (U.S. GAGES)	INDOOR TYPE		OUTDOOR TYPE	
		BOX	COVER	BOX	COVER
NOT OVER 24	NOT OVER 360	14	14	14	12
NOT OVER 40	NOT OVER 1000	14	12	12	12
NOT OVER 60	NOT OVER 1500	12	12	12	10
OVER 60	OVER 1500	10	10	10	10

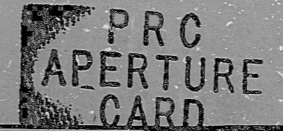
USE THE LARGER THICKNESS OF THOSE GIVEN BY EITHER THE LONGEST DIM OR THE LARGEST SURFACE AREA OF THE BOX.

20. ALL SAFETY AND NONSAFETY RELATED BOXES DESIGNATED SEISMIC CATEGORY 1 (SEE NOTE 11 & 14) SHALL BE FABRICATED FROM ASTM A 606 STEEL. ALL NONSAFETY AREAS (SEE NOTE 15) SHALL BE FABRICATED FROM ASTM A 569 STEEL.

NOTE FOR REV. 8 INCORPORATED: PCP-350-1704, 2114

8	2-17-82	RT	LM	1/2" x 1/2" x 1/2"
7	7-31-81	TB	LM	1/2" x 1/2" x 1/2"
6	6-30-81	ML	LM	1/2" x 1/2" x 1/2"
5	3-6-81	SP	LM	1/2" x 1/2" x 1/2"
4	12-1-80	WD	LM	1/2" x 1/2" x 1/2"
3	10-1-80	SP	LM	1/2" x 1/2" x 1/2"
2	8-11-80	SP	LM	1/2" x 1/2" x 1/2"
1	4-10-79	SP	LM	1/2" x 1/2" x 1/2"
REV	DATE	BY	APPROVED	

EPASCO SERVICES INCORPORATED DIV. ELEC. OR LG B1 CH. F.D. BEANS DATE JULY 5, 1978		WASHINGTON PUBLIC POWER SUPPLY SYSTEM NUCLEAR PROJECTS NO. 3 & 5 BOX DETAILS NOTES		WPPSS-3240 D-5033 SHEET 2
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