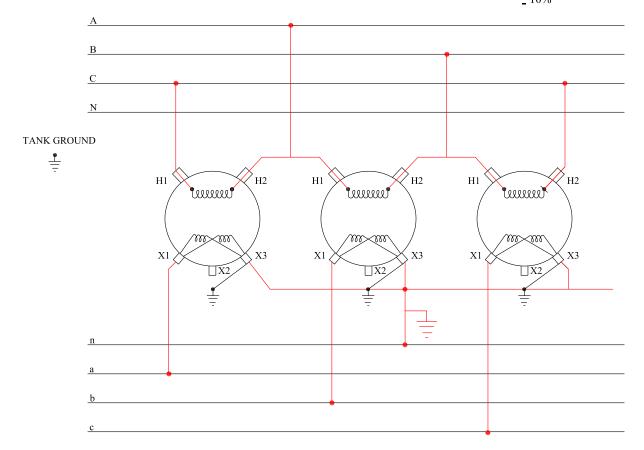


PRIMARY--DELTA EACH TRANSFORMER IS ENERGIZED BY TWO PHASES FROM THE PRIMARY CIRCUIT. TWO BUSHING TRANSFORMERS WITH PRIMARY VOLTAGE RATINGS OF 12470 MUST BE USED IN THIS CONNECTION. THE TRANSFORMERS MUST MATCH WITH REGARD TO IMPEDANCE. EXCESSIVE CIRCULATING CURRENTS MAY OVERHEAT AND BURN OUT THE TRANSFORMERS IF THEY ARE NOT WITHIN TOLERANCE LIMITS.

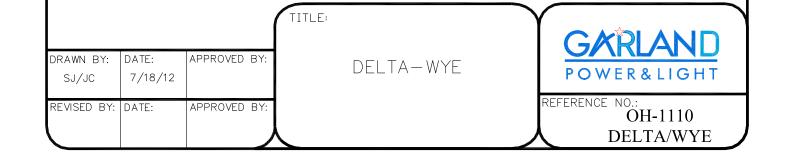
IMPEDANCE DIFFERENCE ALLOWED  $\frac{+}{2}10\%$ 



SECONDARY—WYE THIS CONNECTION IS USED TO SERVE THREE-PHASE AND SINGLE PHASE LOADS AT A VARIETY OF VOLTAGES, 120/208 AND 277/480. IN THE 120/208 CONNECTION, THE SECONDARY COILS OF STANDARD DISTRIBUTION TRANSFORMERS ARE CONNECTED IN PARALLEL INSIDE THE TRANSFORMER TO PROVIDE FOR 120 VOLTS ONLY. IN THE 277/480 CONNECTION, SPECIAL TRANSFORMERS ARE USED WHICH HAVE ONLY ONE SECONDARY WINDING AND ONLY TWO SECONDARY BUSHINGS.

## NOTE:

MOVE X2 GROUND STRAP TO THE GROUNDED BUSHING (  $\rm X1~ABOVE)$  ON EACH TRANSFORMER.



## **Construction Standard Material**

Title:

**OH-1110 Delta - Wye** Rev. Date: 11/13/2011

Pic#	Description	WAREHOUSE #	Qty	UOM
1	BOLT MACHINE 3/4" X 14" W/NUT	285-08-10814	1	EA
2	WASHER SQUARE 3/4"	285-08-15315	1	EA
3	CABLE, 5 KV # 2 AWG OKOGUARD	280-42-50005	30	FT
4	ARRESTOR LIGHTING MOV TYPE 10KV, POLYMER	286-04-10010	3	EA
5	CONNECTOR SPLIT BOLT CU TO CU - #6 SOL	285-18-18615	1	EA
6	ROD GROUNDING 5/8" X 8'	285-36-15108	1	EA
7	BRACKET LIGHTNING ARRESTOR OH1	285-38-19191	3	EA
8	BIRD GUARD COVER, FARGO GS-555	285-39-24101	6	EA
9	CUTOUT 100 AMP 15 KV	286-19-10250	3	EA
10	CLAMP GROUND ROD 5/8"	285-13-16025	1	EA
11	LUG TRANSFORMER GROUNDING 8 SOL TO 2/O STR	285-49-17325	1	EA
12	MOUNT TRANSFORMER CLUSTER SIMPLEX TYPE	285-38-15165	1	EA
13	BOLT MACHINE 5/8" X 14" W/NUT	285-08-10788	1	EA
14	WASHER SPRING DOUBLE COIL 5/8"	285-08-85430	1	EA
15				
16				
17				
18				
19				
20				

**Garland Power & Light** 



OH-1110 Delta - Wye