TRANSFORMER AND SECONDARY CABINET SLAB DETAIL

1500 KVA, 2000 KVA & 2500 KVA TRANSFORMERS

EDGE OF BUILDING

SECONDARY DUCTS MAXIMUM CONDUCTOR - 750 KCMI

8 - 2 #4 X 7

4'-0" (MINIMUM)*

3'-4" CHAMFER IN FOUR SIDE 2'-0"

5" CLEAR COVER

1.5" CLEAR COVER

MIN. 6 #4 #3 TIES 8"

1'-0" DIA.

1'-0" DIA.

5'-0" 5'-0" 5'-0"

MINIMUM 4" IRON PROTECTION PIPES TO BE SET 3'-6" ABOVE AND 3'-6" BELOW GRADE. SET IN CONCRETE. CAP PIPE. A 6" "I" BEAM MAY BE SUBSTITUTED.

INSTALL PIERS TO UNDISTURBED EARTH BOTTOM OF HOLES SHALL BE EXCAVATED TO CLEAN LEVEL SURFACE OF UNDISTURBED MATERIAL

12" DIAMETER PIER (TYP)

TWO LAYER W20 6 X 6 WELD WIRE MESH TOP - BOTTOM

6 - 2#4 (TYP) X 10.5'

16 - 2#4 X 2.5'

4" NON-METALLIC CONDUIT WITH 90° RADIUS BEND FOR PRIMARY CABLE, REFER TO METER SPEC

AREA WITHIN PROTECTION PIPES MUST BE CLEAR FOR OPENING OF TRANSFORMER DOORS AND MAINTENANCE. A TOTAL OF 10' OF CLEARANCE IS REQUIRED IN FRONT OF THE TRANSFORMER.*

56" X 8" GROUND ROD FURNISHED AND INSTALLED BY OPPD MARK AREA WHERE GROUND ROD WILL NOT HIT CONDUIT.

MINIMUM 4" IRON PROTECTION PIPES TO BE SET 3'-6" ABOVE AND 3'-6" BELOW GRADE. SET IN CONCRETE. CAP PIPE. A 6" "I" BEAM MAY BE SUBSTITUTED.

THE EXISTING SOIL SHALL BE EXCAVATED AND BACKFILLED WITH A CLEAN ACCEPTABLE GRANULAR FILL AND THOROUGHLY COMPACTED TO 90% OF MAXIMUM DENSITY PER ASTM D2049 AND D1556.

SLAB TO BE MADE OF CONCRETE WITH A MINIMUM 28 DAY STRENGTH OF 4,000 PSI AND 6% AIR CONTENT

ALL MATERIAL FURNISHED BY THE CUSTOMER SHALL EQUAL OR EXCEED THE STANDARDS AS SPECIFIED IN THE "NATIONAL ELECTRICAL CODE" ALL CUSTOMER INSTALLED PRIMARY CONDUITS TO BE RODDED IN PROVEN CLEAR, AND A JET LINE TO BE LEFT IN EACH CONDUIT ALL CONDUITS ENTERING SLAB TO BE VERTICAL AND 90° ANGLE WITH TOP OF SLAB TOP OF SLAB MUST BE SMOOTH, FLAT AND LEVEL.

NO WALLS TO BE BUILT AROUND OR WINDOWS, & BUILDING OPENINGS.

CUSTOMER TO FURNISH ALL MATERIAL EXCEPT WHERE NOTED

ORGANIC AND/OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM SUBGRADE AND BACKFILL AREAS AND BACKFILLED WITH ACCEPTABLE GRANULAR FILL, COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT ASTM D1557 AND D2049.

IF THE TOP THREE (3) FEET OF SUBGRADE BENEATH THE SLAB IS SUSCEPTIBLE TO A HIGH WATER TABLE OR PERIODIC SATURATION,

* THIS DRAWING SHOWS THE MINIMUM CLEARANCE NEEDED FOR PHYSICAL REASONS; FACTORY MUTUAL INSURANCE COMPANY RECOMMENDS THE FOLLOWING SEPARATION DISTANCES BETWEEN THE SPECIFIED TYPE OF BUILDING AND TRANSFORMER FOR MINERAL-OIL FILLED TRANSFORMERS WITH UNDER 500 GALLONS OF OIL, BUILDING OWNERS AND THEIR CONTRACTORS ARE RESPONSIBLE FOR LOCATING THE SLAB PER OPPD MINIMUM CLEARANCE GUIDELINES AND THEIR INSURANCE COMPANY RECOMMENDATIONS.

<table>
<thead>
<tr>
<th>TWO HOURS FIRE RESISTANT CONSTRUCTION</th>
<th>NON-COMBUSTIBLE CONSTRUCTION</th>
<th>COMBUSTIBLE CONSTRUCTION</th>
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<tbody>
<tr>
<td>5'</td>
<td>15'</td>
<td>25'</td>
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Revised 01-15-20 By CLS

DESIGN ENTRY BY BRANT DANDEL

ISSUED DATE_______