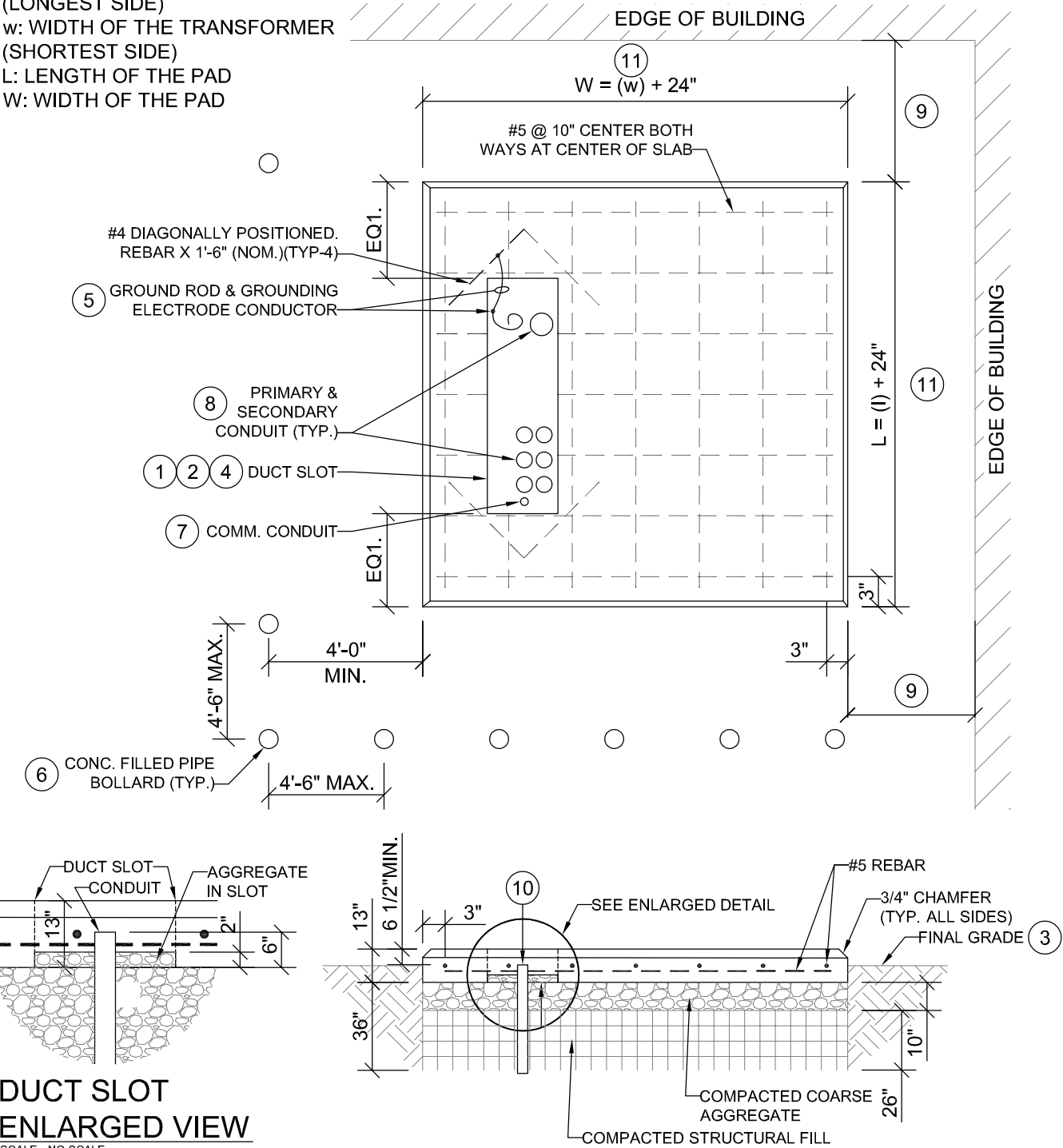


I: LENGTH OF TRANSFORMER  
(LONGEST SIDE)  
w: WIDTH OF THE TRANSFORMER  
(SHORTEST SIDE)  
L: LENGTH OF THE PAD  
W: WIDTH OF THE PAD



## GENERAL NOTES

- SLAB TO BE MADE OF FIBER REINFORCED POLYMER (FRP) CONCRETE WITH MINIMUM 28 DAY STRENGTH OF 3,500 PSI WITH 2" LENGTH OF MONOFILAMENT MACROSYNTHETIC FIBERS AT APPROXIMATELY 4 LB/YD<sup>3</sup>. ADD AIR-ENTRAINING ADMIXTURE CONFORMING TO ASTM C260/C260M.
- TOP OF PAD TO BE SMOOTH, LEVEL AND CLEARED OF ALL FRAMING MATERIAL AFTER CONCRETE SETS.
- NO WALLS SHALL BE BUILT AROUND TRANSFORMER, NOR CANOPIES ABOVE TRANSFORMER.
- ALL CONDUIT ENTERING SLAB TO BE VERTICAL AND AT A 90° ANGLE WITH TOP OF SLAB. STUB CONDUITS PER ENLARGED DETAIL, THIS SHEET. PROVIDE ALL SPARE CONDUITS WITH PULLSTRINGS AND PLASTIC CAPS.
- COORDINATE WITH UNL UTILITIES TO ALLOW ANY AND ALL INSPECTIONS BEFORE, DURING AND AFTER CONSTRUCTION OF PAD.
- PAD SHALL BE LOCATED A MINIMUM OF 3' FROM ANY GAS METER AND A MINIMUM OF 10' FROM ANY FUEL TANK.
- PROPER REBAR SPACERS SHOULD BE USED TO KEEP THE REBAR AT PLACE. USE OF CONCRETE BRICKS AS SUBSTITUTE OF SPACERS IS NOT PERMITTED.
- ALL REBAR SHOULD AT LEAST HAVE 3" COVER FROM THE SIDES OTHERWISE NOTED.
- SUBGRADE PREPARATION PROCESS:
  - REMOVE SUBGRADE FROM BOTTOM OF TRANSFORMER PAD DOWN 36". BACKFILL 26" WITH STRUCTURAL FILL AND COMPACT TO 95% MODIFIED DRY DENSITY (MMD) PER ASTM D1557.
  - PLACE 10" OF COARSE AGGREGATE PER ASTM C33 (GRAVEL, CRUSHED GRAVEL, ETC., OR COMBINATION) SIZE NO. 57 WITH MINIMUM COMPACTION TO 95% PER MODIFIED DRY DENSITY PER ASTM D1557.
- PLACEMENT OF CONCRETE WHEN THE TEMPERATURE IS ABOVE OR BELOW 40°F SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 306.1. THE PROCEDURES TO OBTAIN SUITABLE CONDITIONS IN THE FORM WORK AND TO PROTECT THE CONCRETE DURING CURING SHALL BE REVIEWED WITH THE ENGINEER 48 HOURS BEFORE THE PLACEMENT.
- PAD FOOTPRING PROVIDED IS GENERIC AND FOR BIDDING PURPOSES ONLY. FINAL PAD FOOTPRINT PER PROJECT TRANSFORMER REQUIREMENTS.
- DETAILS ON THIS SHEET CANNOT BE ALTERED WITHOUT WRITTEN CONSENT FROM THE OWNER.
- A 72 HOUR INSPECTION NOTICE SHALL BE GIVEN BEFORE SCHEDULED POUR. THIS INCLUDES EMAILING THE UNIVERSITY INSPECTOR AT [BUILDSAFE@NEBRASKA.EDU](mailto:BUILDSAFE@NEBRASKA.EDU).

## # KEY NOTES

- DUCTS ARE NOT TO BE INSTALLED IN CONCRETE WITHIN THE DUCT SLOT.
- LOCATION AND DIMENSIONS OF DUCT SLOT AND CONDUITS WITHIN SLOT MUST BE MAINTAINED IN RELATION TO OVERALL SLAB DIMENSIONS.
- FINAL GRADE AROUND PAD TO SLOPE AWAY FROM TRANSFORMER PAD (ALL SIDES) AND FROM THE ADJACENT BUILDING EXTERIOR WALLS.
- INSTALL CONDUITS IN DUCT SLOT TIGHT TO BACK OF DUCT SLOT AS MUCH AS POSSIBLE TO ALLOW SPACE FOR FUTURE DUCT INSTALLATION.
- 5/8" X 10' COPPER CLAD GROUND ROD AND 20' OF #4 GEC GROUND. STUB ROD FLUSH WITH TOP OF PAD. TIE REBAR IN POUR TO GROUND ROD WITH GEC AND CONNECT ALSO TO TRANSFORMER TANK GROUND LUG. BOND USING UL LISTING MEANS.
- CONCRETE BOLLARDS WILL BE REQUIRED IF PAD IS WITHIN 6' OF AN AREA SUBJECT TO VEHICULAR TRAFFIC.
- 1-1/2" SPARE CONDUIT FOR METER CABLING. EXTEND INTO BUILDING PER OWNER DIRECTION.
- PROVIDE CONDUITS WITH MINIMUM 36" RADIUS SWEEPS. QUANTITY & SIZES OF CONDUITS PER PROJECT REQUIREMENTS.
- A MINIMUM OF 10' SHALL BE MAINTAINED BETWEEN PAD AND BUILDING EXTERIOR WALL WHERE WALL IS MADE OF COMBUSTIBLE MATERIAL. FOR NON-COMBUSTIBLE WALLS, PROVIDE 12" MINIMUM CLEARANCE BETWEEN PAD AND BUILDING.
- POSITION PRIMARY AND SECONDARY SLEEVE CENTERED & 2" INSIDE OF TRANSFORMER CONDUIT WINDOW ALL SIDES. EXACT WINDOW WIDTH & DEPTH SPECIFIC TO PROJECT REQUIREMENTS.
- IN ALL CASES, TRANSFORMER PAD SHALL EXTEND 12" BEYOND EDGE OF TRANSFORMER ON ALL SIDES. DISTANCE TO BE MEASURED FROM FURTHEST PROTRUDING PORTION OF TRANSFORMER ON ANY GIVEN SIDE.