## 30 TRANSFORMER INSTALLATION NOTES

1. TRANSFORMER SHALL NOT BE LOCATED WITHIN 6.1m OF OPENINGS, DOORS AND WINDOWS.

2. ENWIN WILL PROVIDE AND INSTALL TRANSFORMER, PRIMARY CABLES, AND STEP POTENTIAL GROUNDING, CONTRACTOR WILL BACKFILL AND COMPACT GRANULAR "A" MATERIAL AS DETAILED AND LEAVE A 300mm x 300mm TRENCH AT 904mm FROM EDGE OF TRANSFORMER FOUNDATION FOR GRAVEL, WIRE AND ACCESS TO VAULT

3. GRADE MUST BE ESTABLISHED AROUND THE TRANSFORMER FOUNDATION AS DETAILED.

4. ENWIN WILL PROVIDE DUCT, DUCT SWEEPS, BASE SPACERS, 4/0 COPPER GROUND WIRE AND SPLICING VAULT IF REQ'D FOR PRIMARY SUPPLY.

5. MINIMUM CLEARANCE TO ANY STRUCTURE (EXCLUDING BOLLARDS) TO BE 3m AT THE DOOR OPENING SIDE AND 1m AT THE NON-OPENING SIDE OF THE TRANSFORMER.

CONCRETE PYLON, AND BOLLARDS, IF REQUIRED.

6. GENERAL CONTRACTOR TO PROVIDE EXCAVATION, CONCRETE, PVC GLUE. TRANSFORMER FOUNDATION AND LID, TRENCHING, INSTALLATION OF DUCT WITH GLUED JOINTS, CONCRETE ENCASEMENT OF DUCT, BACKFILL AND REINSTATEMENT OF SOD AND

7. TRANSFORMER FOUNDATION(S) SHOULD BE FREE OF STANDING WATER AND HAVE LIDS REMOVED. THEY ARE TO BE SECURED WITH 13mm PLYWOOD AND TAP CONS UNTIL PRIMARY CABLES ARE INSTALLED. AFTER THE PRIMARY CABLES ARE INSTALLED, THE CONTRACTOR SHALL INSTALL THE LID ON THE TRANSFORMER BASE. SECONDARY CABLES SHOULD BE INSTALLED BEFORE TRANSFORMER IS PLACED ON THE BASE.

8. PYLON MUST BE ROUND, SQUARE PYLON IS NOT ACCEPTABLE.

9. SECONDARY CABLES AND 4/0 BARE CABLE ENWIN GROUND WIRE SHOULD EXTEND 2.15m ABOVE THE TOP OF THE TRANSFORMER PAD.

10. 4/0 COPPER GROUND WIRES TO BE PLACED AROUND ANY SPLICING VAULT IN NATURAL FILL, (NOT INTO VAULT).

11. CUSTOMER TO PROVIDE CONNECTIONS BETWEEN THE CONDUCTORS AND THE TRANSFORMER SECONDARY TERMINALS (FOUR HOLE NEMA PADDLE WITH FOUR (4) 17mm HOLES BY 44mm CENTERS) COMPRESSION CONNECTION TO THE CONDUCTOR IS REQUIRED WHERE ALUMINUM CONDUCTORS ARE USED. CONNECTORS ARE TO BE INSTALLED AND LOOSELY BOLTED TO THE TRANSFORMER PADS BY CONDUCTOR FOR FINAL CONNECTION BY ENWIN.

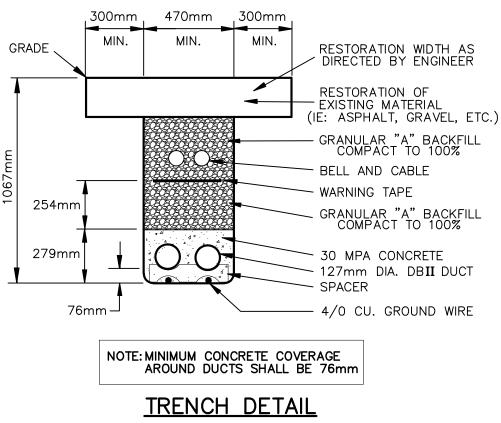
12. DUCT SPACERS TO BE PLACED 1.8m APART.

13. A 1/4 INCH DUCT POLY PULL ROPE SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR, IN EACH 5 INCH DUCT RUN AND SECURED/TERMINATED IN THE APPROPRIATE APPERTURANCE.

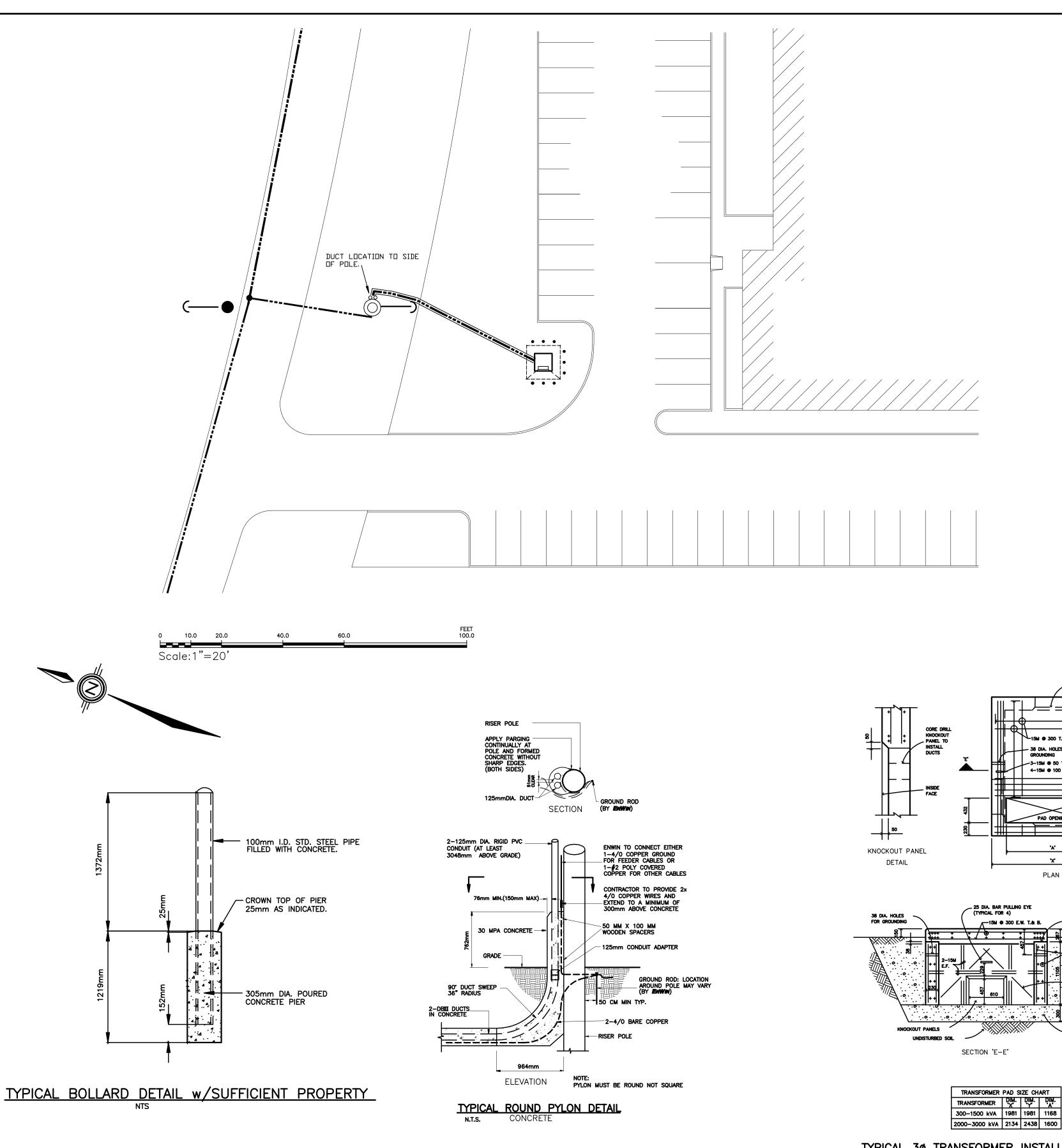
14. THE OWNER SHALL PROVIDE AN EASEMENT OF 1.5M FOR DUCTS AND CABLE AND 6M x 6M FOR TRANSFORMER CONCRETE FOUNDATION PAD SWITCHGEAR.

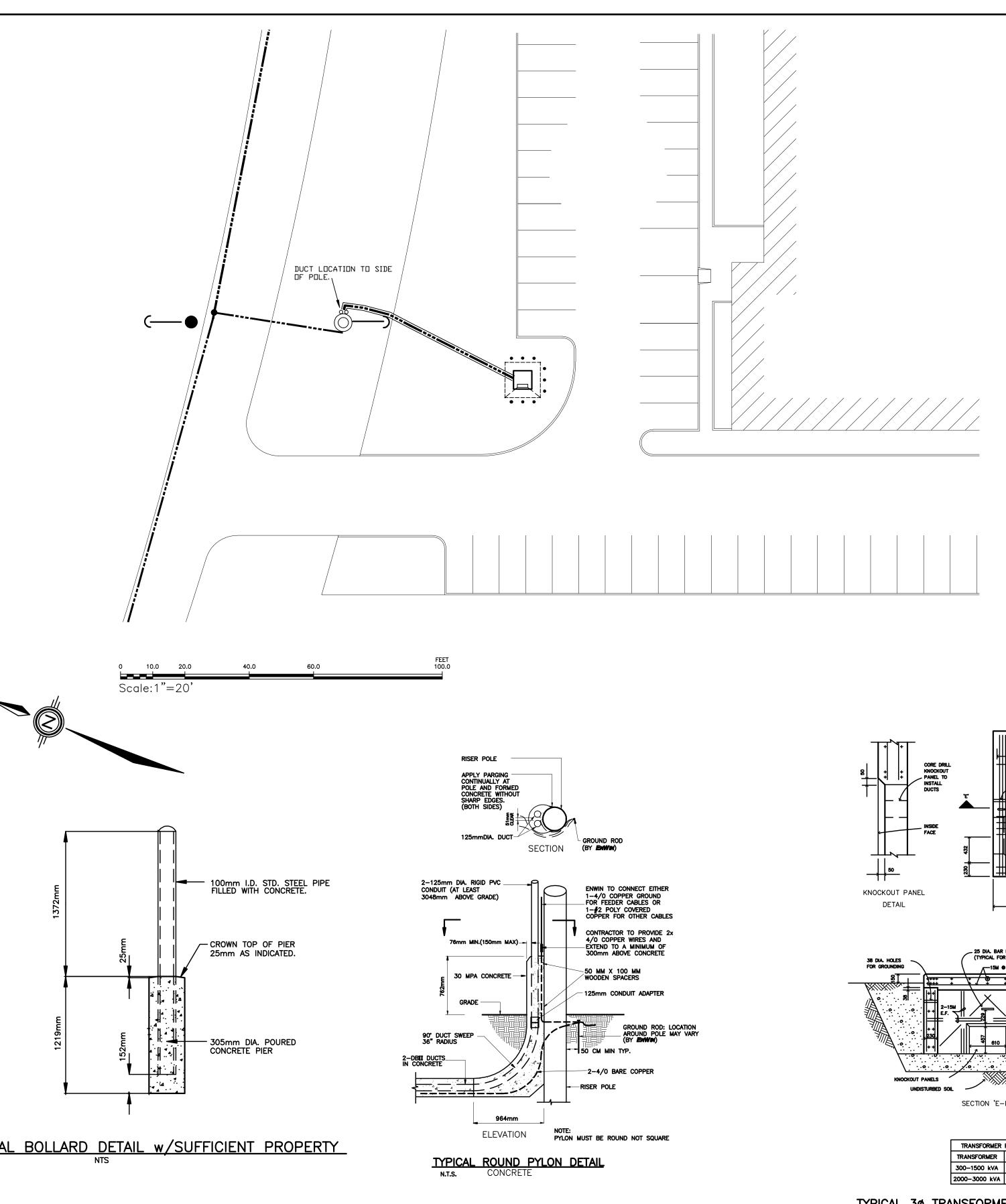
15. COMPACTION AT THE BASE OF THE TRANSFORMER FOOTING IS TO BE 100% STANDARD MAXIMUM DRY PROCTOR DENSITY. THE CONTRACTOR IS RESPONSIBLE TO RETAIN A CERTIFIED TESTING AGENCY TO PERFORM COMPACTION TESTS OF GRANULAR "A" MATERIAL AT THE BASE OF THE CONCRETE TRANSFORMER FOUNDATION. TEST RESULTS ARE TO BE PROVIDED TO ENWIN.

16. BACKFILL AND COMPACT GRANULAR "A" MATERIAL AS DETAILED. 17. THIS DRAWING IS TO BE STUDIED VERY CAREFULLY, ANY NON COMPLIANCE WILL RESULT IN A REFUSAL TO CONNECT BY ENWIN.



2-127mm DIA. DUCTS **30 MPA CONCRETE** 



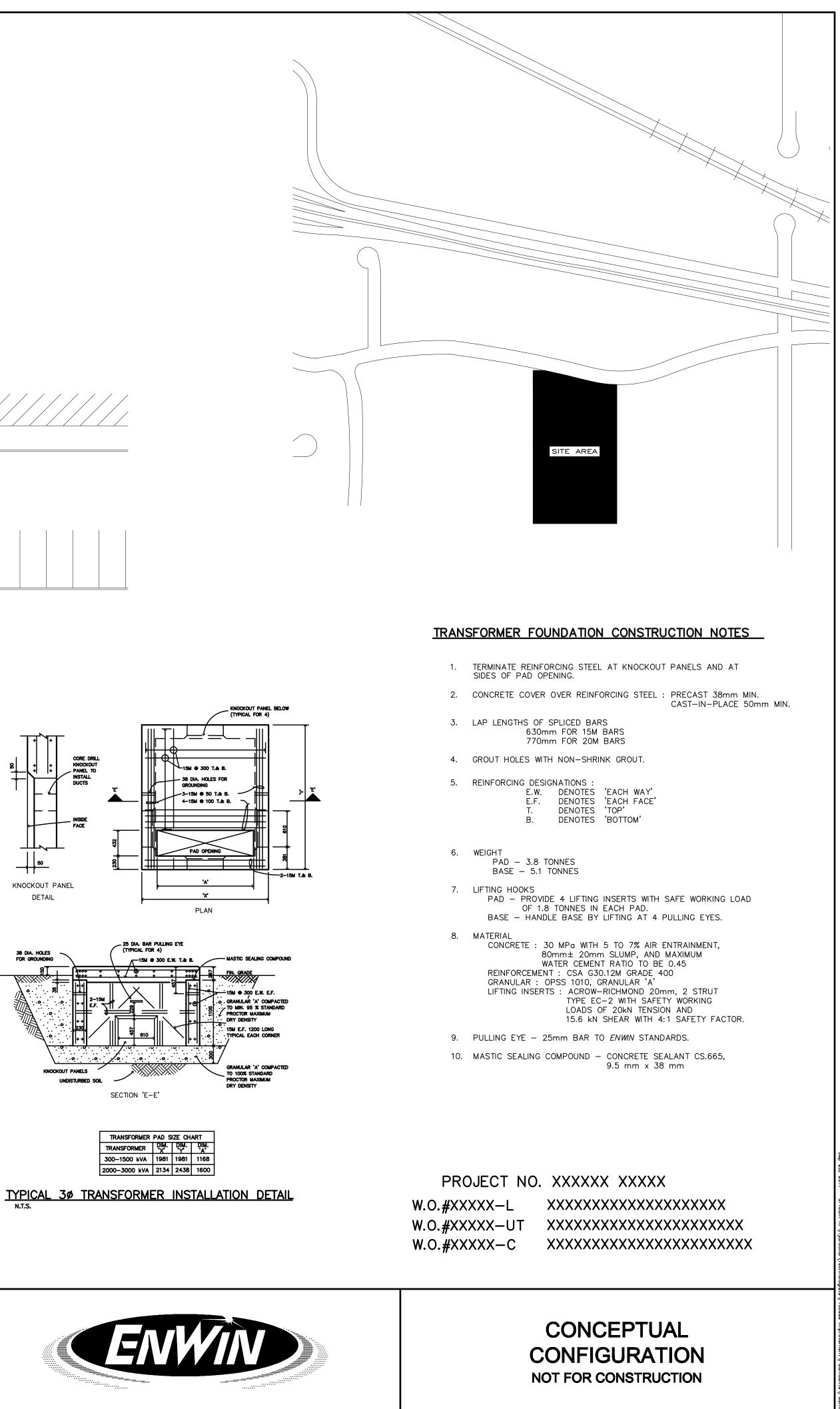


PRINT RECORD		REVISIONS		LEGEND		CALL BEFORE	CALL BEFORE YOU DIG	
NO.	FOR DATE	NO. REVISION	DATE BY					
01	ALL SEPT 7 2004	01 DETAILS	SEPT 7 2004 AEM	EXISTING 3 PH. 1/O AL. 28KV CONC. NEUT. PRIMARY	V SPLICING VAULT	CABLE T.V.	1-800-400-2255	
				NEW 3 PH. 1/0 AL. 28KV. CONC. NEUT. PRIMARY	NEW TRENCH ROAD CROSSING	TELEPHONE SERVICE	1-800-400-2255	
				NEW SECONDARY CABLE	2 ROAD CROSSING NUMBER	GAS SERVICE	1-800-400-2255	
				NEW STREETLIGHT CABLE		ENWIN UTILITIES 519	255-2703	
				PROPERTY LINE		W.U.C. – WATER 519	251-7300 EXT. 302	
			• 18 O	STREET LIGHT AND NUMBER		CITY OF WINDSOR – TRAFFIC ENGINEERING 519	255-6248	
				TRANSFORMER (NEW UNLESS NOTED)		FIRE DEPARTMENT – SIGNALS 519	255-6478	



N.T.S.

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