

External Design Resource Checklist



Ergon Project Number:

Date:

Designer:

Signature:

Manually tick on completion

To be completed by Designer:			
1.1 RECEIVE AND REVIEW DESIGN PROJECT FOLDER			
1.1.1 Receive and Review Design Project Folder			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
1.1.2 Review Time Allocated for the Design Project			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
2.1 SELECT LINE ROUTE			N/A <input type="checkbox"/>
2.1.1 Desktop Concept Review (usually completed by Ergon but still needs to be completed by designer)			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
2.1.2 Initiate DBYD Requests			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
2.1.3 Conduct Site Visit			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
2.1.4 Discuss with Ergon if a Change of Scope is Required			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
2.1.5 Conduct Line Survey and Peg Line			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
2.1.6 Determine and Request Third Party Approvals			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
2.1.7 Clearing Required (RSC04) Provide Ergon with a Quote			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
2.1.8 Advise customer of clearing requirements on private property & organise "wayleave entry to clear."			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
2.1.9 Clearing Quote accepted by Ergon Contract Designer to Initiate Clearing			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
2.1.10 Civil Works i.e. Trenching, Under boring etc. Provide Ergon with a Quote			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
2.1.11 Design Maintenance PDF Emailed to Ergon if Required			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.1 ELECTRICAL DESIGN			N/A <input type="checkbox"/>
3.1.1 ADMD Calculations			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.1.2 LV Drop Calculations			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.1.3 Transformer Sizing			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.1.4 Motor Starting			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.1.5 Ferroresonance			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.1.6 High Fault Fusing Zone		N/A <input type="checkbox"/>	High Fault <input type="checkbox"/> Normal <input type="checkbox"/>
3.1.7 Transformer Earthing		N/A <input type="checkbox"/>	Common <input type="checkbox"/> Separate <input type="checkbox"/>
3.1.8 MEN Requirements			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.1.9 Deep Drilling Required?			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.1.10 HV Interconnections (Underground works)		N/A <input type="checkbox"/>	<630 kVA Radial <input type="checkbox"/> 630 kVA to 2 MVA tie <input type="checkbox"/> > 2MVA tie <input type="checkbox"/>
3.1.11 HV Plant Settings			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.1.12 Overhead Earth Wire			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.2 MECHANICAL DESIGN			N/A <input type="checkbox"/>
3.2.1 OVERHEAD MECHANICAL DESIGN			N/A <input type="checkbox"/>
3.2.1.1 Determine Wind Pressures		Special Situation <input type="checkbox"/>	Region A & B <input type="checkbox"/> Region C <input type="checkbox"/>
3.2.1.2 Determine Location		Urban <input type="checkbox"/>	Semi – Urban <input type="checkbox"/> Rural <input type="checkbox"/>
3.2.1.3 Determine Insulation type			Pollution <input type="checkbox"/> Normal <input type="checkbox"/>
3.2.1.4 Determine Conductor type		Alclad <input type="checkbox"/> ASCR <input type="checkbox"/>	ABC <input type="checkbox"/> AAC <input type="checkbox"/> AAAC <input type="checkbox"/>
3.2.1.5 Determine the strength of existing poles			Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.2.1.6 Determine Layout			
<ul style="list-style-type: none"> • Stringing Tension/s • Determine Strain / Angle / Termination pole locations • Determine Intermediate pole locations • Determine Ruling Spans • Check Mid Span Clearances are met • Check Wind Load Requirements are met • Check Crossarm Strengths are sufficient • Check Stay Requirements are met • Produce Conductor Sagging Information • Optic Fibre / Pilot Wire 			Yes <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> N/A <input type="checkbox"/>
Hard copy of calculations saved in Design Folder			Yes <input type="checkbox"/> N/A <input type="checkbox"/>

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3.2.2 UNDERGROUND MECHANICAL DESIGN	N/A <input type="checkbox"/>
3.2.2.1 Joint Locations	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.2.2.2 Cable Pull loads	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.2.2.3 Future Conduits / Marker Balls	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.2.2.4 Cable Run Lengths	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.3 LIGHTING DESIGN	N/A <input type="checkbox"/>
3.3.1 Minor Road Lighting	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.3.2 Major Road Lighting	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.4 OUTAGE CONSIDERATIONS	N/A <input type="checkbox"/>
3.4.1 Area Scheduler Consulted	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.4.2 Live Line Required	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.4.3 Generation Required	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.4.4 Construction Overtime	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.4.5 Communications Outage (Fibre Optic / Pilot Wire)	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.5 PRELIMINARY CONSTRUCTION PLAN	N/A <input type="checkbox"/>
3.5.1 Develop the Construction Plan in AutoCAD	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.5.2 AutoCAD drawing converted to PDF format	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.5.3 PDF drawing emailed to Ergon for approval	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.5.4 PDF drawing approved by Ergon	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.6 FINAL CONSTRUCTION PLAN	N/A <input type="checkbox"/>
3.6.1 Civil Works - Drawing	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.6.2 Construction Plan	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.6.3 Drawing Approvals	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.6.4 Public Lighting Drawing	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.6.5 Clearing and Access Tracks Drawing	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.7 FINAL DESIGN PROJECT FOLDER MAILED TO ERGON	N/A <input type="checkbox"/>
3.7.1 Conduit Plan – 1 electronic copy (as required)	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.7.2 Construction Plan – 1 electronic copy and 1 paper copy of final plan (with RPEQ signature when required)	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.7.3 Construction Plan – 1 electronic copy of preliminary design	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.7.4 Bill of Materials with Quantities	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.7.5 Copies of Line Profiles	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.7.6 Copies of Design Calculations i.e. LV Drop, Spacing Charts etc	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.7.7 Copies of Third Party Approvals i.e. Works on Roads, Easements etc	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.7.8 Original Copy of Wayleave's	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.7.9 Copies of Underground Services Check i.e. DBYD	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.7.10 Copies of Site Specific Risk Assessments	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.7.11 Copies of Completed Ergon Energy Design Checklist (CI0001001F103) and Associated Checklists	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.7.12 Copies of Reports from Third Party Subject Matter Experts i.e. Environmental, Cultural Heritage etc.	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.7.13 Copies of Key Correspondence with internal and external parties	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
3.7.14 All information supplied to Ergon Energy in the final design project folder is burnt to a CD and included in the design project folder.	Yes <input type="checkbox"/> N/A <input type="checkbox"/>
NOTES	