

GEOTECHNICAL DESIGN CHECKLIST

PROJECT NAME:		
DISCIPLINE:		DATE:
REVIEWER:		
TYPE OF REVIEW:		
DRAWINGS REVIEWED:		
EVERY ITEM WILL BE REVIEWED AND NOTED FOR COMPLIANCE (C), NONCOMPLIANCE (NC), AND NONAPPLICABILITY (NA)		
ITEM#	ITEM	CHECK
	A. GENERAL - CHECK	
1	Geotechnical report, design analysis, specifications, and drawings have been submitted.	
2	and field results, backup calculations, and layout drawings.	
3	Design analysis, specifications, and drawings are based upon geotechnical report.	
	B. GEOTECHNICAL REPORT - CHECK	
1	Summary to include:	
a	Existing Site Conditions	
b	Literature Review/References	
c	Project Information	
	General	
	Civil	
	Structural	
2	Area Geography and Geology	
3	Scope of Investigation to include:	
a	Field of Exploration	
b	Field Resistivity	
c	Laboratory Testing	
d	Engineering Analyses	
4	Surface and Subsurface Conditions to include:	
a	Surface Conditions and Topography	
b	Subsurface Conditions	
c	Ground Water	
d	Cohesive Materials	
e	Fill Materials	
5	Evaluation and Design Recommendations to include:	
a	General Considerations	
b	Structure Foundations	
c	Foundation Settlement	
d	Floor Slabs-on-Grade	
e	Pavement	
	Rigid	
	Concrete	

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	B. GEOTECHNICAL REPORT - CHECK	
f	Below Grade Wall/Retaining Wall/Excavation Earth Pressures	
	Backfill	
	Insitu	
g	Drainage and Stormwater Management Structures	
h	Utility Bedding Requirements	
i	Seismicity - IBC Seismic Class	
	IBC Seismic Site Class	
	Liquefaction Potential	
j	Detrimental Conditions	
k	Subsurface Soil Absorption	
l	Excavation	
m	Structural Fill and Backfill Placement to include:	
	analysis of on-site material for reuse as backfill material	
n	Borrow Source	
o	Slope Stability	
p	Geotextiles	
q	Machine Foundations	
r	Downdrag on Embedded Structural Items	
s	Construction Materials	
t	Corrosivity Analysis	
6	Appendix to include:	
a	Figures	
b	Site Location	
c	Exploration Layout	
d	Subsurface Profiles/Cross Sections	
7	Appendix to include:	
a	Field Data	
b	Boring Logs	
c	Test Pit Logs	
d	Geophysical Tests	
e	Load Tests	
f	Resistivity, pH, Chlorides and Sulfates Tests	
g	Percolation Tests	
8	Appendix to include:	
	Laboratory Test Data	

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	B. GEOTECHNICAL REPORT - CHECK	
9	Appendix or Separate Volume to include Backup Calculations	
	C. DESIGN ANALYSIS - CHECK	
1	That the information included is derived from Evaluation and Design recommendations of the Geotechnical Report.	
2	The inclusion and accuracy of the following items as indicated:	
a	General Considerations	
b	Structure Foundations	
c	Foundation Settlement	
d	Floor Slab-on-Grade	
e	Pavement	
	Flexible	
	Rigid	
f	Soluble Salts	
g	Earth Pressures	
	Backfill	
	Insitu	
h	Seismicity	
	IBC Seismic Site Class	
	Liquefaction Potential	
i	Detrimental Conditions	
j	Below Grade Wall/Retaining Wall/Excavation	
k	Structural Fill and Backfill Placement	
l	Borrow Source	
m	Slope Stability	
n	Resistivity, pH, Chlorides and Sulfates	
o	Machine Foundations	
p	Downdrag on Embedded Structural Items	
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	D. SPECIFICATIONS - CHECK	
1	Applicable logs of explorations and laboratory data are included.	
2	The design parameters are not provided in the specification.	
3	The specifications and drawings do not include any proprietary or sole source materials or equipment except for approved items.	
4	Specified testing has been edited (added/deleted) to specifically meet the project requirements.	