## PROJECT CHECKLIST FOR GEO/HYDRO

Project Name:			Scoped By:
Highway		MP	Date:
Note: Unless there are specific project limitations, scope the proper solution, and not a limited design.			
Geotechnical			
	1. Bridges- widening, new,		12. Heaving pavement
	replacement		13. Adding new roadbed or Soft or
	2. Walls: MSE, cast in place,		wet subgrade
	tieback, temporary for detours,		14. Streambank stabilization
	soundwalls		15. Culvert Repair or Replacement
	3. Sign Bridges/Large Cantilever	•	by Trenchless methods
	Signs		16. pH and resistivity
	4. Large signal poles/ poles with		17. Culvert extensions, replacements
	unique foundations		18. Deep utility trenches, rock
	5. Cuts		trenches
	6. Fills, approach embankments,		19. Large bridge seismic retrofit
	sliver fills, detour embankments		projects
	7. Widening, shoulder widening,		20. Water Quality Swales or
	adding lanes		Structures
	8. New Alignments (temporary of	or $\Box$	21. Adding traffic capacity- noise
	permanent)		study
	9. Rock cuts or rockfall areas		22. Active Faults or Seismic design-
	10. Landslides, Debris Flows		23. Wetland mitigation
	11. Sink holes, dips in pavement	or $\Box$	24. Tunnels
	guardrail		

## Material Source (CEG or experienced PE stamp required) consult material source checklist for activities

- □ 25. Identify aggregate, rip rap or stone embankment source
- □ 26. Borrow source (do you need embankment materials?)
- □ 27. Disposal site ( is the project generating excess materials?)
- □ 28. Identify Right of Way, property survey, topographic survey, environmental, and permitting needs for source(s) or disposal sites.
- □ 29. Does project schedule reflect needed material source work

## **Hazardous Materials**

- □ 30. Right of way purchases
- □ 31. Any excavation (includes utility trenches, sidewalk excavation, pole or structure foundations) in suspect areas
- □ 32. Projects requiring worker safety or disposal of hazardous waste. (Building or electrical demolition, asbestos, lead dust in tunnels, mercury, luminaries, creosote timber removal, striping paint removal, bridge painting- leaded paint removal)

- □ 33. Projects using or storing hazardous materials or storing over 660 gals of fuel on site
- □ 34. Demolition of buildings

## **Hydraulics**

- □ If you touch dirt you need an Erosion Control Plan
- □ Bridge work over water- replacement, widening, deck repairs, scour, revetment
- □ Streambank scour or stabilization needed
- □ Culverts smaller than 48 inches (Roadway handles, no Geo/Hydro involvement other than pH & resistivity)
- □ Culverts between 48" and 72" (Geo/Hydro will do Hydraulics study & report, pH & resistivity)
- □ Culverts >6 ft belong to Geo/Hydro unless there is a major structural component, then Bridge will need to be involved
- ☐ Temporary or permanent water management- diversions, dewatering, dams, pumping
- □ Water quality designs— new impervious surface
- □ Fish passage
- □ Flooding or work on flood plain; no rise certifications
- □ Any impact on streams, rivers, surface water runoff
- □ Work near adjacent streams or inlets
- Planting or seeding between edge of Right of way and shoulder or irrigation-Landscape Architect

Detailed Notes (refer to number) and photo log: