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, replacement
- ☐ 2. Walls: MSE, cast in place, tieback, temporary for detours, soundwalls
- ☐ 3. Sign Bridges/Large Cantilever Signs
- ☐ 4. Large signal poles/ poles with unique foundations
- ☐ 5. Cuts
- ☐ 6. Fills, approach embankments, sliver fills, detour embankments
- ☐ 7. Widening, shoulder widening, adding lanes
- ☐ 8. New Alignments (temporary or permanent)
- ☐ 9. Rock cuts or rockfall areas
- ☐ 10. Landslides, Debris Flows
- ☐ 11. Sink holes, dips in pavement or guardrail
- ☐ 12. Heaving pavement
- ☐ 13. Adding new roadbed or Soft or wet subgrade
- ☐ 14. Streambank stabilization
- ☐ 15. Culvert Repair or Replacement by Trenchless methods
- ☐ 16. pH and resistivity
- ☐ 17. Culvert extensions, replacements
- ☐ 18. Deep utility trenches, rock trenches
- ☐ 19. Large bridge seismic retrofit projects
- ☐ 20. Water Quality Swales or Structures
- ☐ 21. Adding traffic capacity- noise study
- ☐ 22. Active Faults or Seismic design-
- ☐ 23. Wetland mitigation
- ☐ 24. Tunnels

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: