ANGORA FIRE RESTORATION PROJECT

U.S. Forest Service
LAKE TAHOE BASIN MANAGEMENT UNIT

Duncan Leao
Vegetation Management Planner

Richard Vacirca
Forest Aquatics Biologist

3 PHASES OF FIRE REHAB

Phase I Rehab: Immediate post-fire actions –

Termed "mop-up"

Hand/dozer lines, roads, safety zones, portions of urban lots

Phase II Rehab: Burned Area Emergency Rehab (BAER) –

Erosion control measures – Fall/Winter storm events

Noxious weed detection surveys

Phase III Rehab: Public safety & Long-term restoration

Angora Hazard Tree Removal Project (urban lots/roads/trails)

Angora Fire Restoration Project

WHY HERE?   WHY NOW?

CONSIDERATIONS:

➢ **Pre-fire + post-fire conditions influence whether or not we are currently at or will eventually meet desired conditions WITHOUT active management.**

➢ **Impacts prior to the fire**

- Roads/trails in SEZs; Stream straightening; Fire suppression affecting fuel loading

➢ **Impacts post-fire**

- Loss of vegetation/ground cover to conserve soils

- Further effects to resources from future fire and/or floods

+ Increase in water availability

+ Increase in riparian vegetation

DESIRED CONDITIONS - EXAMPLES
POST-FIRE (> 20 YEARS)

Fire, Fuels, Vegetation and Forest Management
➤ **Stand conditions in the defense zone are fairly open dominated by large, fire tolerant trees with an overall average fuel loading of < 15 tons/acre.**

Wildlife Habitat
➤ **Maintain sufficient levels of snags and down logs to provide some characteristics of diverse forest habitat.**
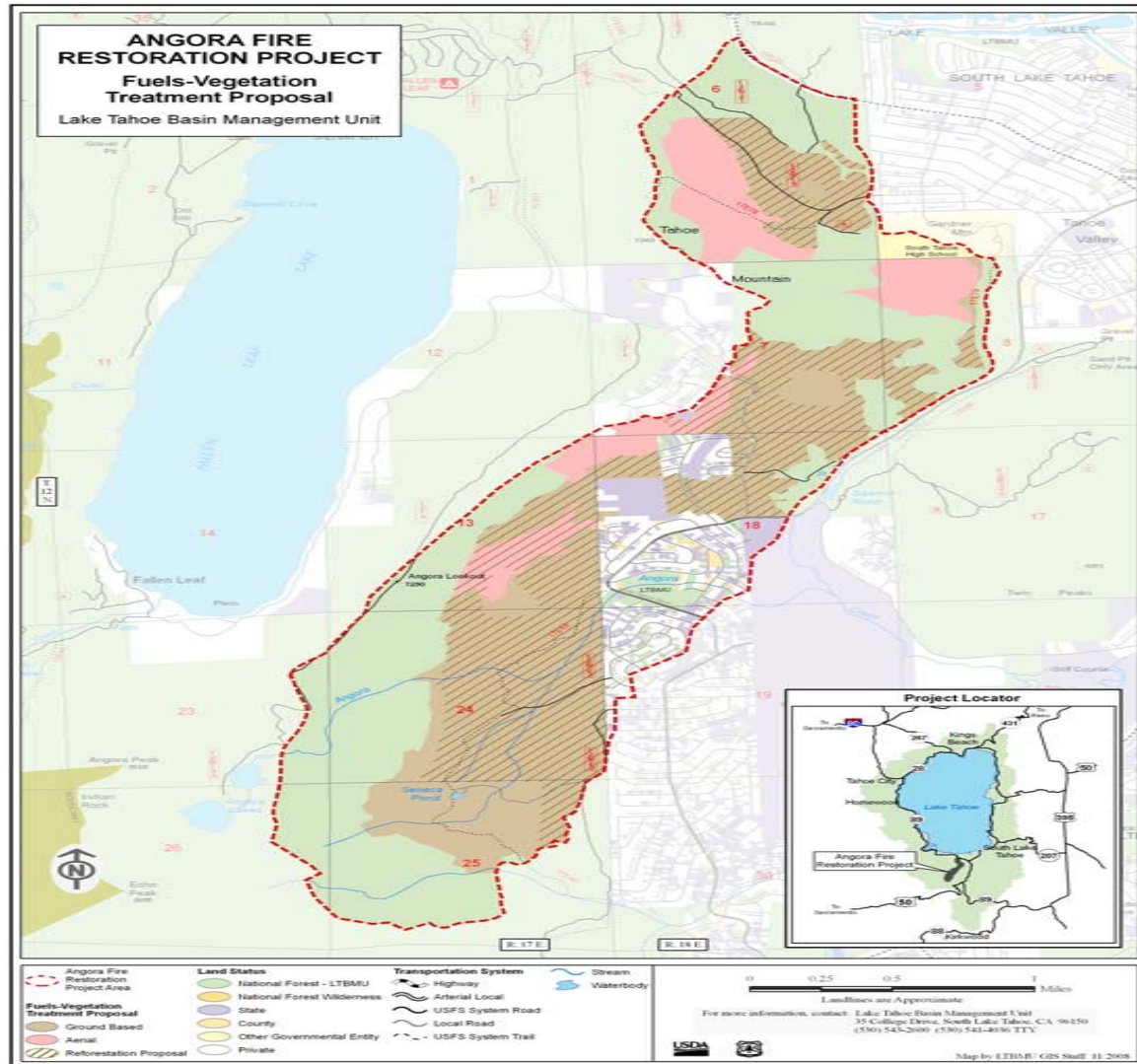
Watershed and Aquatic
➤ **The connections of floodplains, channels, and water tables distribute flood flows and sustain diverse habitats.**
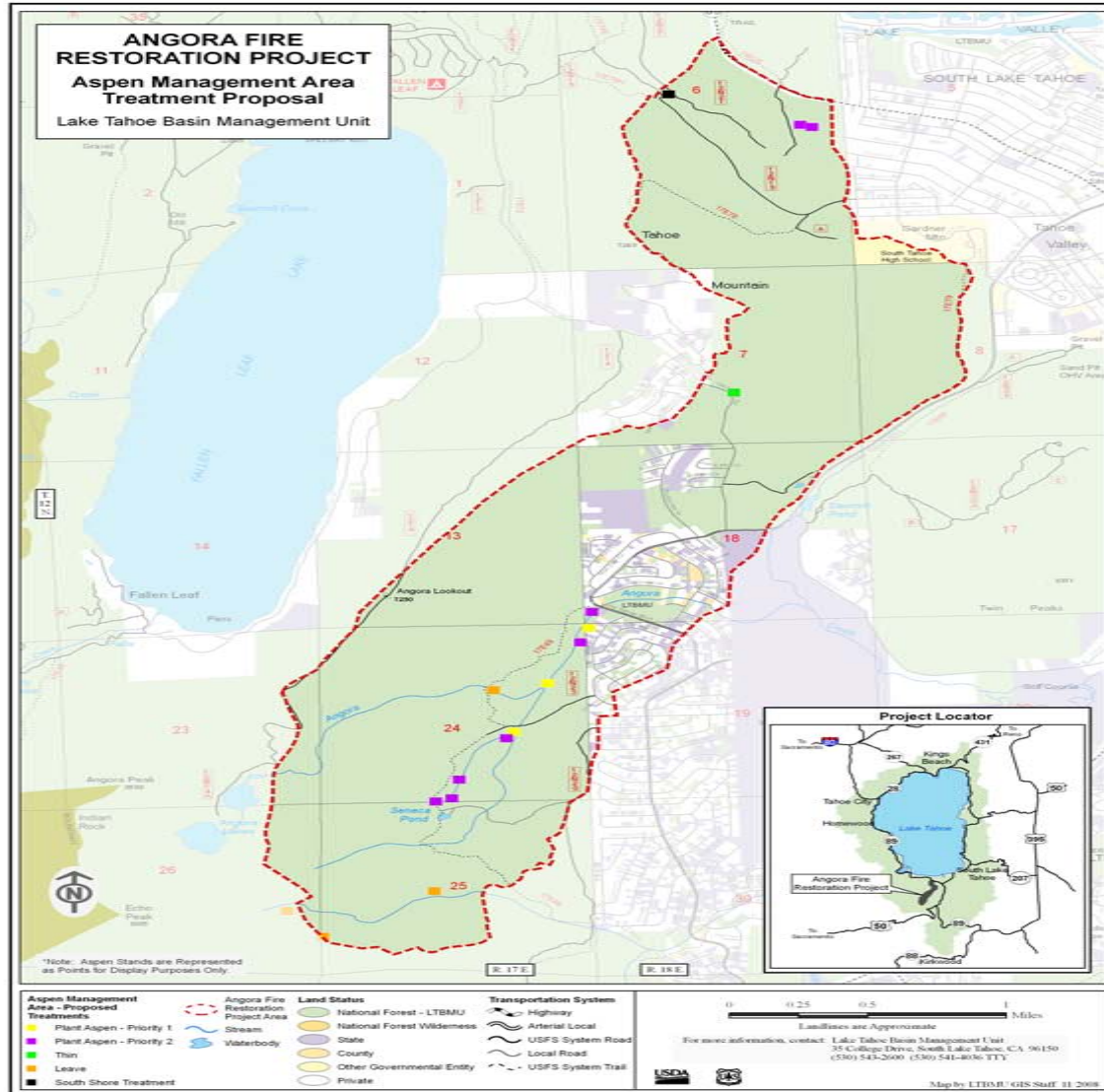
Roads and Trails
➤ **The transportation system will provide non-motorized public access to the National Forest. Roads and trails retained in the system will be improved to meet Forest Service standards necessary for water quality protection.**
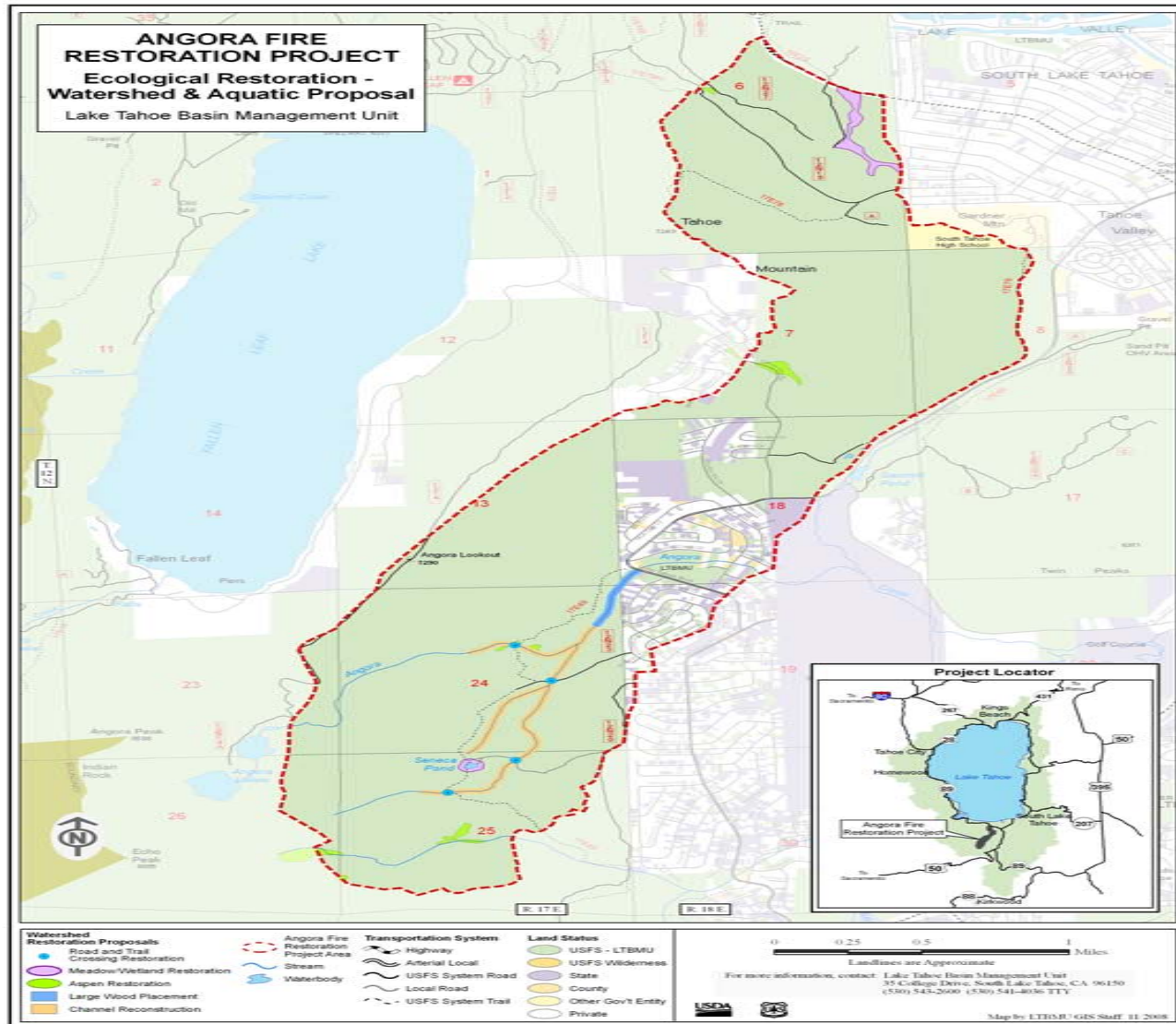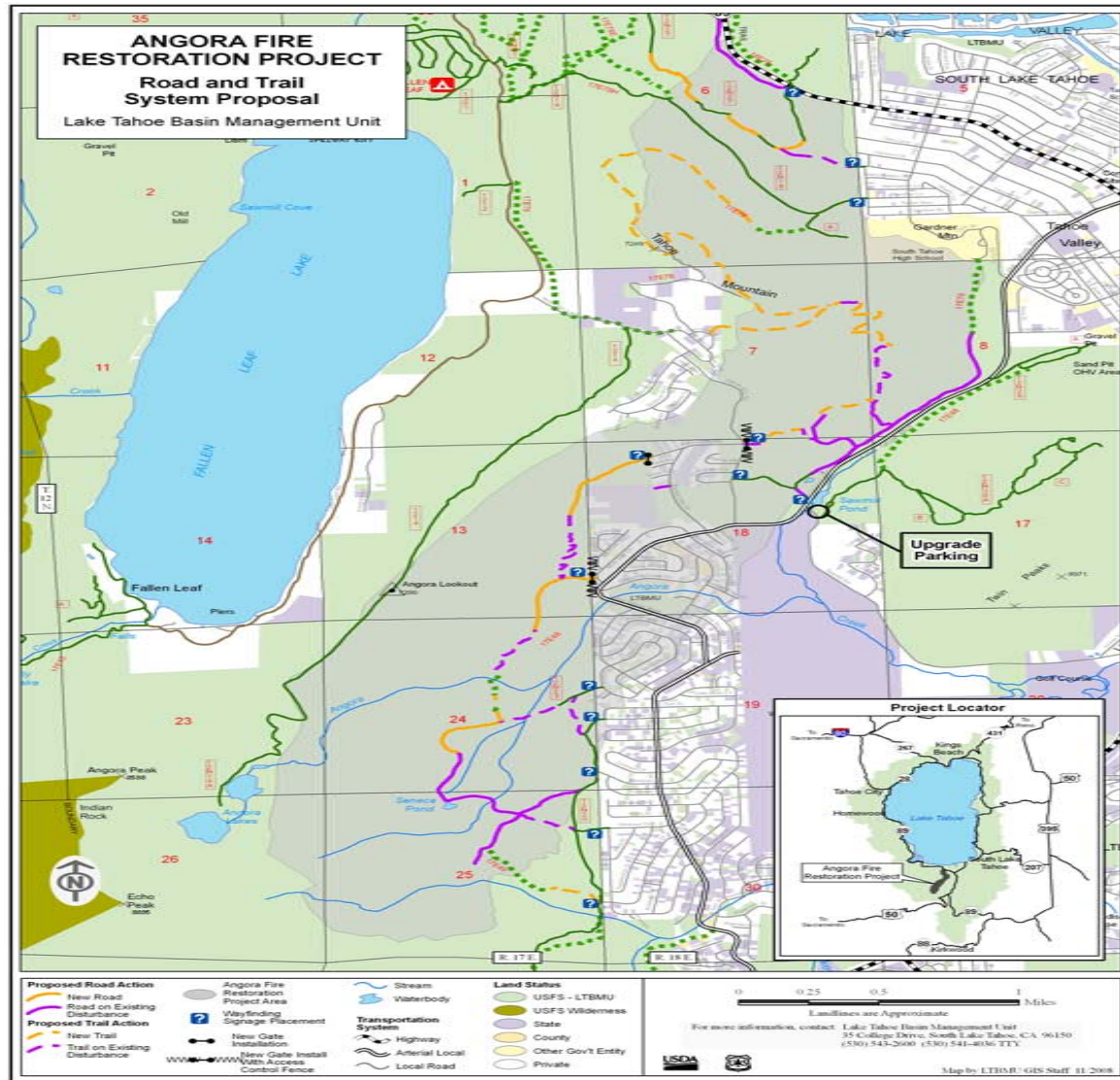
PROPOSED ACTIONS – VEGETATION/FUELS

PROPOSED ACTIONS – ASPEN

PROPOSED ACTIONS – WATERSHED/AQUATICS

PROPOSED ACTIONS – ROADS/TRAILS

SUMMARY OF PROPOSED ACTIONS

FUELS/FOREST HEALTH

- Ground based removal = up to 951 acres
- Aerial removal = up to 447 acres
- Reforestation = up to 1,100 acres

WILDLIFE HABITAT

- Wildlife Habitat Management Zones – project design
- Aspen (conifer removal) – 1 stand/< 5 acres
- Aspen (planting) – 11 plots/1/4 acre

WATERSHED AND AQUATIC

- Channel reconstruction (Angora Creek) - ~1200 feet (0.23 miles)
- Large wood placement (Angora Creek + Tribs) - ~ 2 miles
- Gardner Mountain Meadow – 13 acres/ ~1500 feet (est.)
- Wetland complex (Seneca Pond) – 5-10 acres (est.)

ROADS AND TRAILS

➢ **System roads – upgrades = BMPs, move out of SEZs, decommission, etc.**

➢ **Non-system roads – upgrades = decommission, reconstruct + adopt**

➢ **Trails – new construction, reroute + BMPs on existing, decommission, way-finding signage**

NOXIOUS WEEDS

➢ **Manuel treatment methods (bull thistle) – 15 – 30 acres (est.)**