

ALL TREES WITHIN 6' EITHER SIDE OF CENTERLINE OF COASTER (12' TOTAL WIDTH) TO BE REMOVED (TYP.) ESTIMATED TREE REMOVAL AREA IS 0.66 ACRES



LEGEND:

- P2 PUBLIC HIKING TRAILS
- M2 ADMINISTRATIVE MAINTENANCE TRAILS

NOTES:

1. ALL TRAILS SHALL BE AT GRADE, NATIVE MATERIAL TRAILS THAT ARE FIELD FIT TO MINIMIZE REMOVAL OF VEGETATION AND UTILIZE THE NATURAL TOPOGRAPHY TO MINIMIZE THE GRADES.
2. STACKED SWITCHBACKS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE.
3. FORMER ROADWAY PRISMS SHALL BE UTILIZED WHERE PRACTICABLE FOR NEW TRAIL ALIGNMENTS.
4. ALL TRAIL CONSTRUCTION CORRIDORS OUTSIDE OF THE TRAIL ITSELF SHALL BE REVEGETATED PER THE REVEGETATION SPECIFICATIONS INCLUDED IN THESE PLANS.

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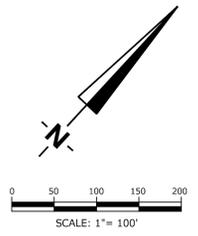
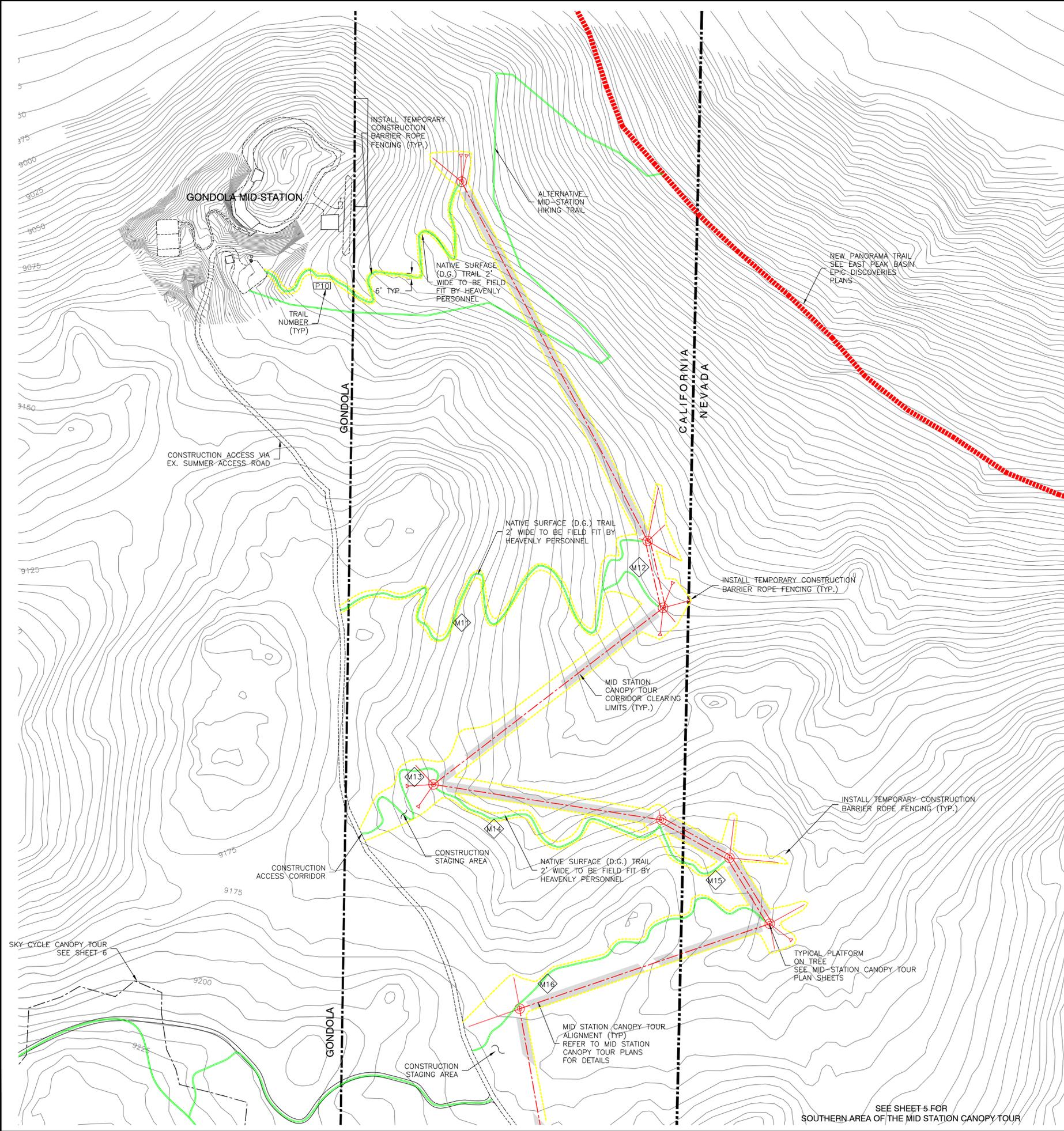
HEAVENLY MOUNTAIN RESORT
Adventure Peak Epic Discovery Activities

FOREST FLYER ALPINE COASTER

JOB NO.:	12-602.7
DATE:	02-27-14
DESIGNED:	MMG
DRAWN:	MLM/FRB
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SHEET 3



LEGEND:

- PUBLIC HIKING TRAILS
- ADMINISTRATIVE MAINTENANCE TRAILS
- MID STATION CANOPY TOUR CORRIDOR CLEARING LIMITS (TYP.)
TOTAL ESTIMATED CLEARING: 1.4 ACRES

NOTES:

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SEE SHEET 5 FOR SOUTHERN AREA OF THE MID STATION CANOPY TOUR



REVISION	DATE

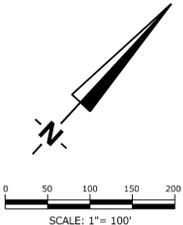
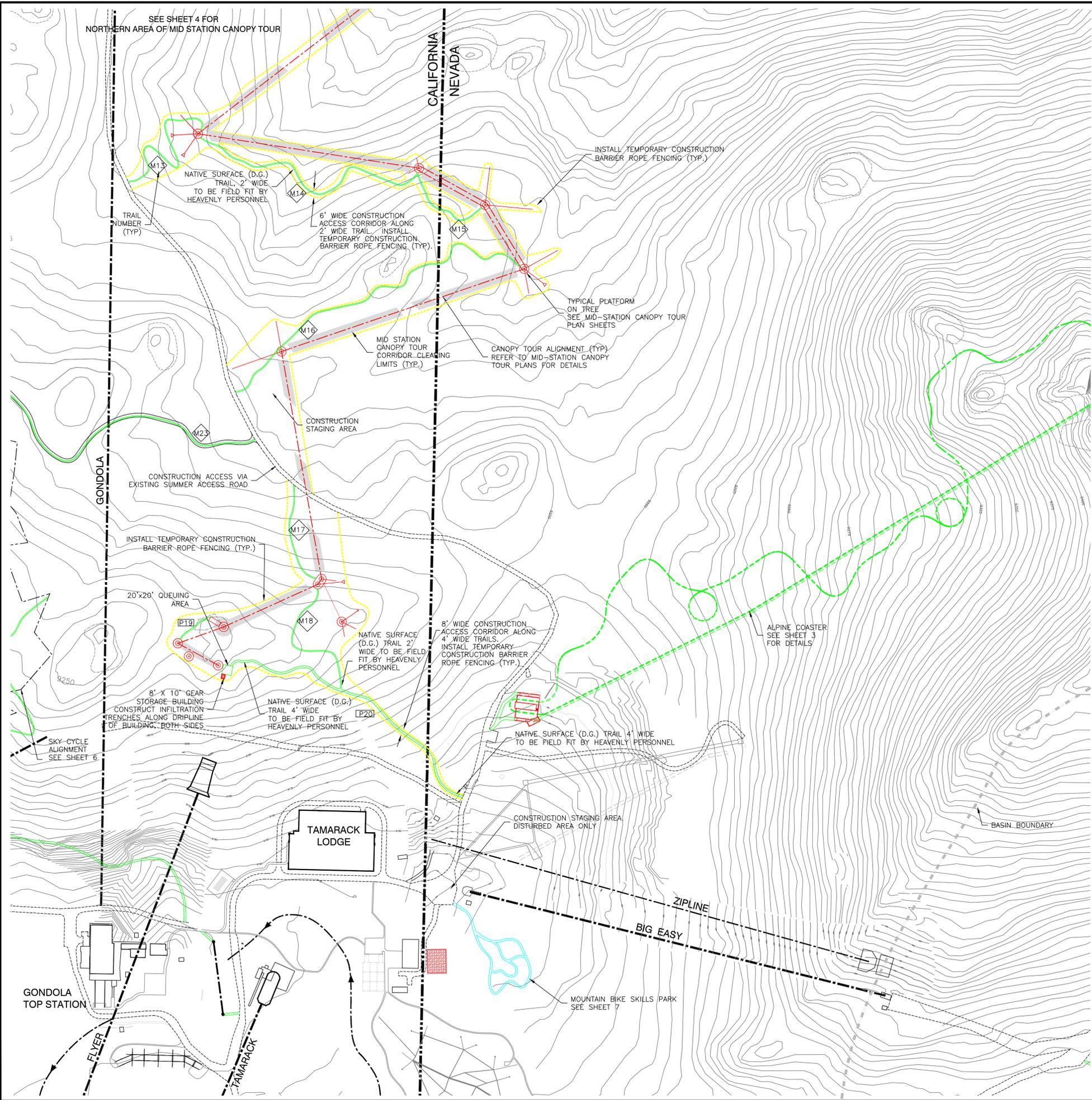
HEAVENLY MOUNTAIN RESORT
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MID STATION CANOPY TOUR - NORTH



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JOB NO.:	12-602.7
DATE:	02-17-14
DESIGNED:	MMG
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LEGEND:

- PUBLIC HIKING TRAILS
- ADMINISTRATIVE MAINTENANCE TRAILS
- MID STATION CANOPY TOUR CORRIDOR CLEARING LIMITS (TYP)
TOTAL ESTIMATED CLEARING: 1.4 ACRES

NOTES:

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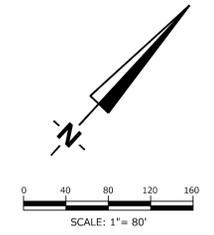
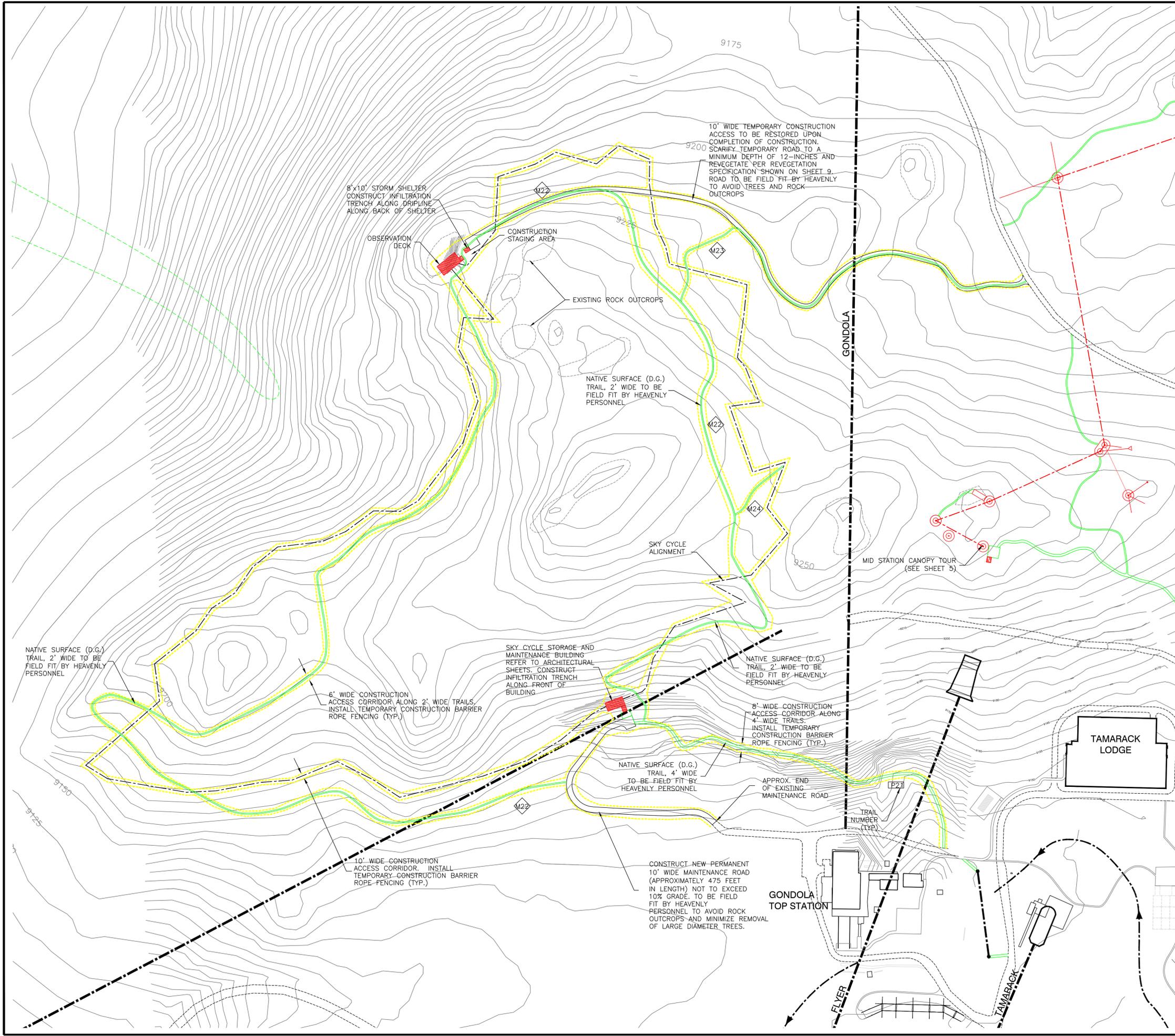
MID STATION ZIPLINE TOUR



Avoid cutting underground utility lines. It's costly.
before you Dig
1-800-642-2444
UNDERGROUND SERVICE ALERT (USA)

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SHEET 5	



LEGEND:

- P2 PUBLIC HIKING TRAILS
- M2 ADMINISTRATIVE MAINTENANCE TRAILS

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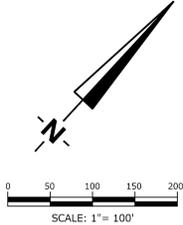
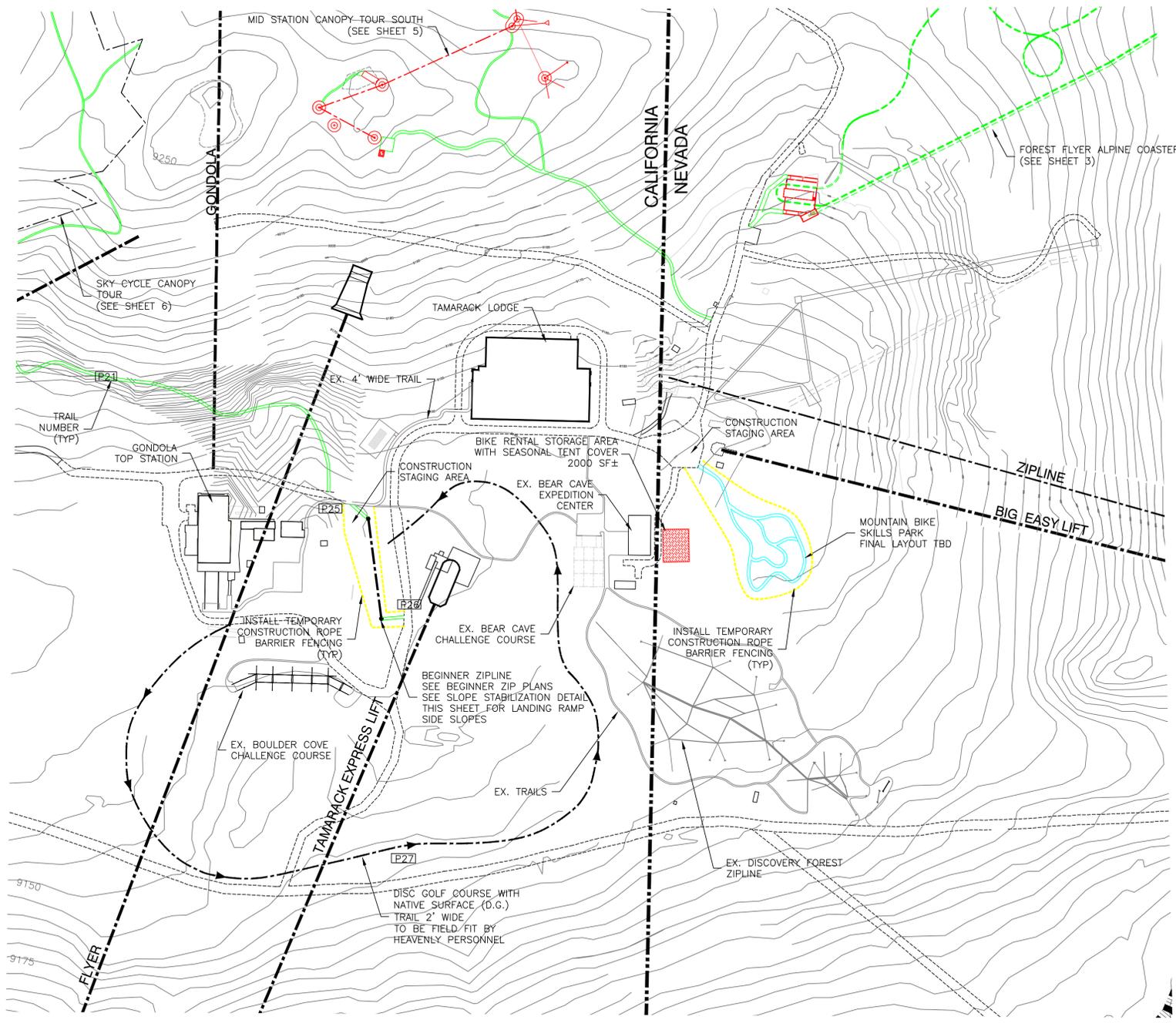
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SKY CYCLE CANOPY TOUR

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SHEET 6	

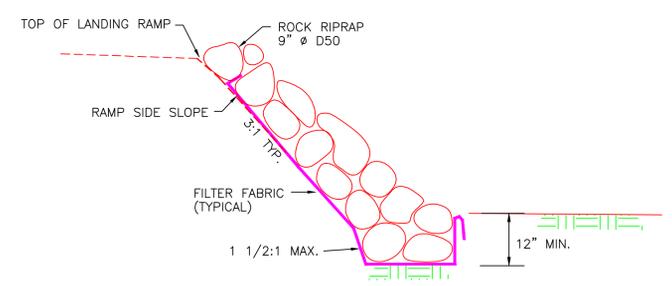


LEGEND:

- P21 PUBLIC HIKING TRAILS
- M2 ADMINISTRATIVE MAINTENANCE TRAILS

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**SLOPE STABILIZATION
KIDDIE ZIP LANDING RAMP SIDE SLOPES**
NOT TO SCALE

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ADVENTURE PEAK INFILL ACTIVITIES

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SHEET 7

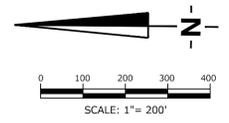
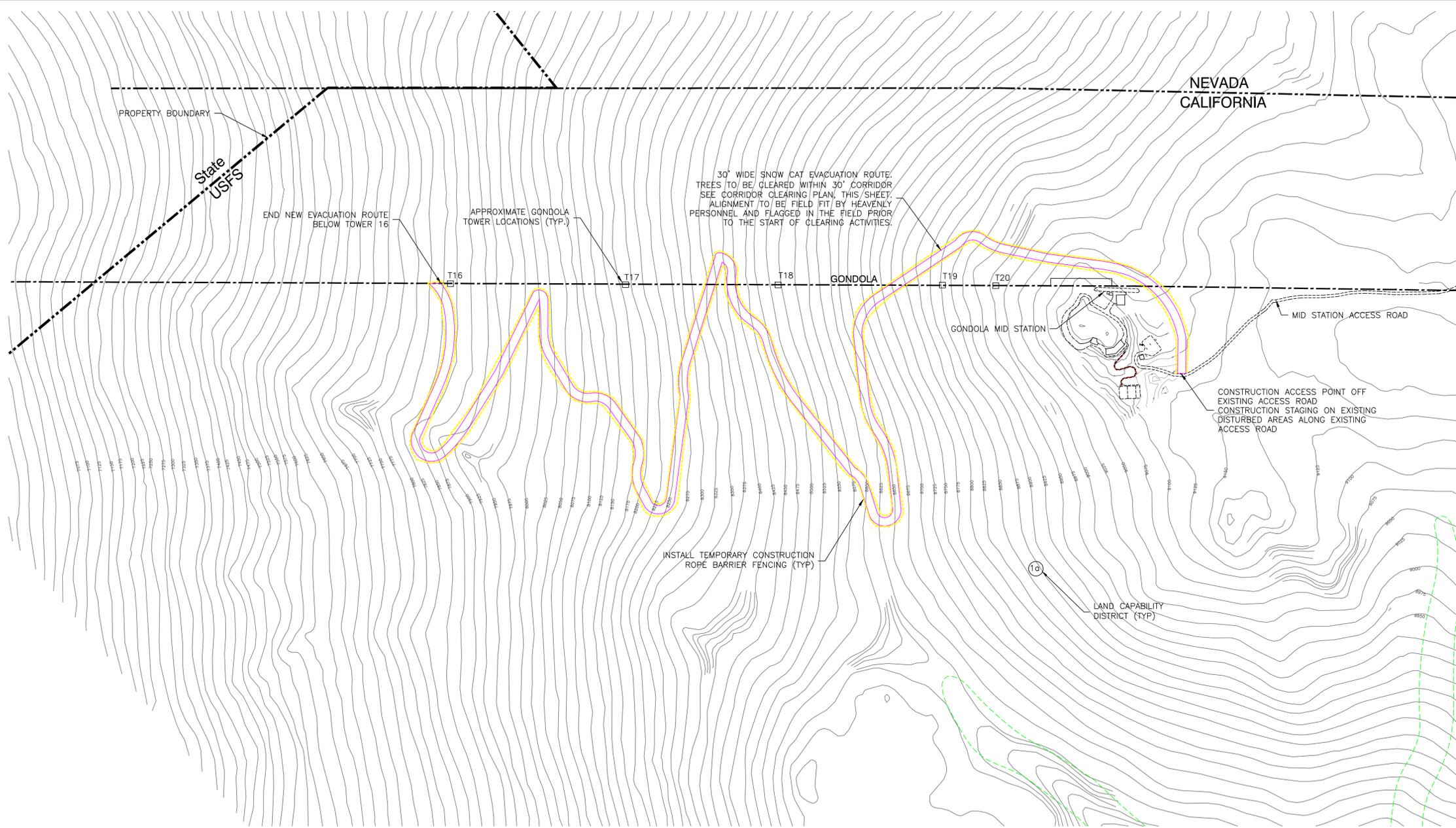
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CORRIDOR CLEARING PLAN

1. PROJECT PRESCRIPTIONS
The following prescriptions will be implemented. A combination of prescriptions, outlined below, will be field-verified by Heavenly representatives and those of other agencies

- A. Prescription 1: Protect Native Plants and Revegetate
 - Existing native shrubs along the proposed evacuation route will be field identified and avoided to the greatest extent possible.
- B. Prescription 2: Remove Noxious Weeds
 - Noxious weeds shall be flagged by a qualified Heavenly representative or consultant, isolated from project activity, and reported to the Lake Tahoe Basin Management Unit's (LTBMU) Ecosystem Conservation Department for formal taxonomic identification and removal activity scheduling.
- C. Prescription 3: Construction Techniques
 - The optimum pieces of equipment given the site conditions shall be used to minimize unwanted environmental effects. Typically, the work will be completed using hand tools and/or a spider hoe.
 - All mechanical construction equipment used shall be limited to the 30-foot wide evacuation route corridor.
 - All areas disturbed due to equipment movement shall be scarified and mulched with with a pine needle mulch incorporated into the top two inches of soil.
- D. Prescription 3: Chip Existing Felled Trees and Large Woody Debris (less than 10 inches)
 - All existing limbs shall be either chipped and spread evenly or scattered where the maximum height does not exceed 12 to 18 inches.
 - Existing felled trees shall be chipped and the resulting mulch evenly distributed to an average depth of three inches.
- E. Prescription 4: Treat Existing Large Diameter Logs (greater than 10 inches)
Large diameter logs cannot be mechanically chipped and will be treated separately as described below:
 - Existing large diameter logs shall be removed from the corridor
 - Logs shall be placed in adjacent forested areas off the designated corridor to mimic natural surroundings.
 - Logs along steeper sections will be mechanically placed perpendicular to the slope where needed to reduce soil erosion hazards.
- F. Prescription 5: Grind Existing Tree Stumps
 - Stumps shall not be removed and soil disturbance will not occur.
 - Stumps shall be cut or ground to less than 6 inches in height from the soil surface whenever safety possible.
 - Existing rounds shall be removed in order to provide a more natural appearing condition.
- G. Prescription 6: Reduce Height of Boulders
 - Boulders shall be capped (blasted with explosives) to a height between 12 to 18 inches.
 - Boulders will be moved by hand whenever possible, but the equipment onsite may also be utilized.
 - Fragments shall be placed as to maximize contact with the soil surface with efforts to mimic the natural surroundings.

- 2. IMPROVING SOIL RESOURCES**
- Rather than simply spreading the wood chips or other organic material on top of the soil, use the aged organic material from the Heavenly stockpile to blend into the onsite soil when possible based on site constraints.

- 3. WILDLIFE HABITAT**
- Leave all shrubs and groundcover that are 18" in height or less in the corridor.
 - Leave some areas of bare soil in order to serve as seed caches for rodents and birds.
 - When placing rock on the slope, create pockets within groups of rock and create rock ledges with overhangs in order to provide refuge for rodents and small mammals.
 - Rocks that are capped should have any removed pieces that are intact left in the corridor and arranged in such a manner that leaves overhangs and other spaces for wildlife shelter.
 - Provide variety of higher heights of rock, not simply the minimum height of 12 inches (this technique will also provide visual quality benefits).
 - Logs equal to or less than 18" diameter will be trimmed of branches so that all branches that are lower in height than the diameter of the log remain in order to provide micro-scale habitat for rodents and small mammals.
 - Logs between 12" and 18" diameter should be present in densities at or greater than the surrounding forest, or not less than 10 logs per acre, whichever is greater.
 - Logs should be aligned across the slope on the ground surface.
 - Logs greater than 18" in diameter shall be moved to the edge of the corridor.

- 4. VISUAL QUALITY**
- Randomly feather logs across the slope from the cleared corridor into the edges of the adjacent forested areas in order to add visual variety and avoid uniform log placement.
 - Do not create longitudinal depressions or troughs that can serve as conduits for surface water runoff removing large volumes of soil or rock which result in a significant alteration of the slope shape.

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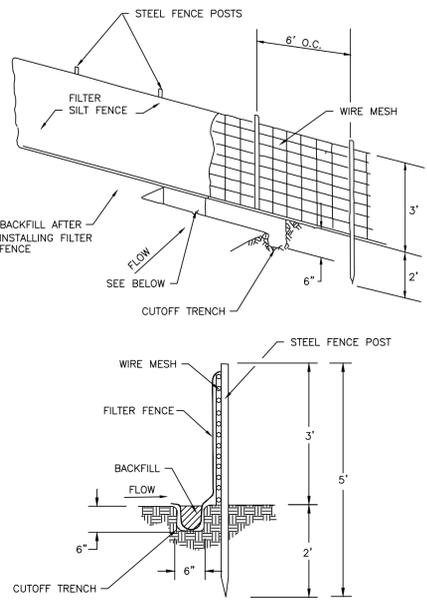
HEAVENLY MOUNTAIN RESORT
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SNOW CAT EVACUATION ROUTE



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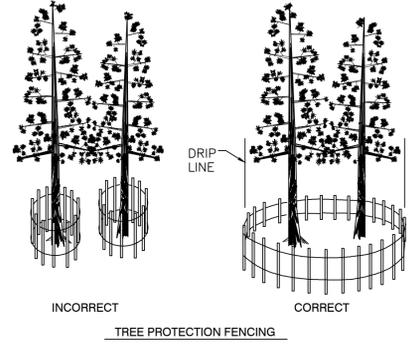
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SHEET 8	



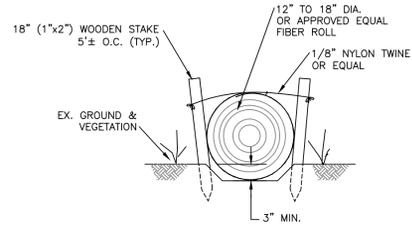
- NOTES:
1. THE CONTRACTOR MAY USE MANUFACTURED FILTER FENCING IN LIEU OF THE ABOVE, SUBJECT TO SUBMITTAL OF MANUFACTURER'S DATA SHEETS TO THE ENGINEER FOR APPROVAL.
 2. WIRE MESH CAN BE DELETED IF POST SPACING IS REDUCED TO 4-FOOT O.C.
 3. ENDS OF RUN OF FILTER FENCE SHALL BE TURNED UPHILL TO FORM A 'J'.

**TEMPORARY EROSION CONTROL
TYPICAL FILTER FENCE**
NO SCALE



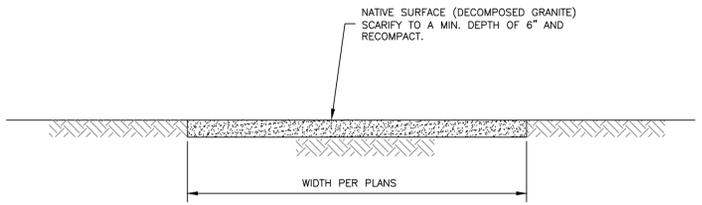
- NOTE:
1. TEMPORARY FENCING TO BE A MINIMUM OF 4' HIGH.
 2. POSTS TO BE SET AT A MINIMUM OF 6' ON CENTERLINE FROM EACH OTHER.
 3. FENCING MATERIALS TO BE APPROVED BY THE ENGINEER.

**TEMPORARY EROSION CONTROL
TREE PROTECTION DETAIL**
NO SCALE

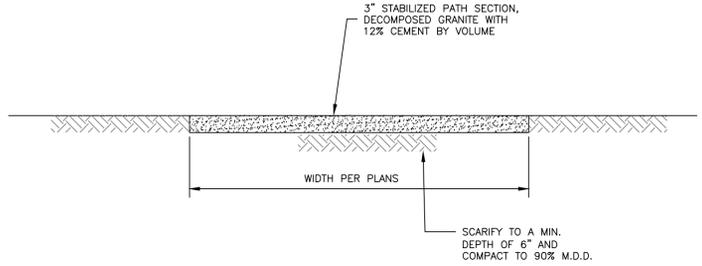


- NOTES:
1. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" TO 6" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.
 2. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 3. FIBER MATERIAL SHALL BE BIODEGRADABLE WEED-FREE STRAW, JUTE, COIR, OR EXCELSIOR. MATERIALS REQUIRE TRPA AND U.S. FOREST SERVICE APPROVAL PRIOR TO INSTALLATION.

**TEMPORARY SEDIMENT BARRIER
FIBER ROLLS**
NO SCALE



NATIVE SURFACE (DG) TRAIL DETAIL
NO SCALE



D/G CEMENT TRAIL DETAIL
NO SCALE

EROSION CONTROL NOTES

1. FOR ALL USE OF THE STAGING AREA WHEN SNOW COVER IS NOT PRESENT, HEAVENLY SHALL HAVE ALL TEMPORARY EROSION CONTROL MEASURES IN PLACE AND APPROVED BY TRPA. HEAVENLY SHALL INCORPORATE ADEQUATE DRAINAGE PROCEDURES DURING THE CONSTRUCTION PROCESS TO ELIMINATE EXCESSIVE PONDING AND/OR EROSION. AFTER A RAINSTORM, ALL SILT AND DEBRIS MUST BE REMOVED FROM CHECK BERMS AND DESILTING FACILITIES, AND ANY DAMAGED EROSION CONTROL MEASURES MUST BE REPAIRED.
2. AN ONSITE INSPECTION BY TRPA STAFF IS REQUIRED PRIOR TO ANY CONSTRUCTION OR GRADING ACTIVITY. TRPA STAFF SHALL DETERMINE IF THE ONSITE CONSTRUCTION TEMPORARY EROSION CONTROL MEASURES HAVE BEEN PROPERLY INSTALLED. NO GRADING OR CONSTRUCTION SHALL COMMENCE UNTIL TRPA PRE-GRADE CONDITIONS OF APPROVAL ARE MET.
3. HEAVENLY SHALL BE RESPONSIBLE TO INSTALL AND MAINTAIN ALL CONSTRUCTION BMPs TO ENSURE PROPER WORKING CONDITIONS. ROADS USED DURING CONSTRUCTION WILL BE INSPECTED DAILY BY HEAVENLY FOR DRAINAGE AND GRADING. RUTS WILL BE REPAIRED IMMEDIATELY. WATERBARS, CULVERTS, AND DITCHES (DRAINAGE STRUCTURES) WILL BE MAINTAINED ON A DAILY BASIS DURING CONSTRUCTION.
4. SEDIMENT BARRIERS AND CONSTRUCTION LIMIT FENCING WILL BE INSPECTED DAILY DURING CONSTRUCTION BY THE HEAVENLY FOR DAMAGE AND APPROPRIATE PLACEMENT. SEDIMENT BARRIERS SHALL BE REPAIRED AND/OR RELOCATED AS NEEDED ON A DAILY BASIS.
5. TEMPORARY BMP MEASURES SHALL BE IMPLEMENTED FOR ALL SUMMER IMPROVEMENT PROJECT LOCATIONS.
6. EXCAVATION SHALL NOT EXCEED 5-FEET BELOW GROUND SURFACE.
7. DISTURBED AREAS, ROADWAYS, AND STAGING AREAS USED DURING CONSTRUCTION SHALL BE SWEEPED AND PROVIDED WITH DUST ABATEMENT SUCH AS A WATER TRUCK AS NEEDED.
8. FOR ALL NATIVE TREES TO REMAIN, TEMPORARY CONSTRUCTION FENCE SHALL BE INSTALLED AROUND THE DRIPLENE OF ALL TREES ADJACENT TO THE ROAD AND WORK AREAS, WHERE FEASIBLE, OR OTHER MEASURES DEEMED APPROPRIATE BY THE TRPA INSPECTOR.
9. HEAVENLY SHALL BE RESPONSIBLE FOR MAINTAINING THE SITE IN A NEAT AND ORDERLY MANNER THROUGHOUT THE CONSTRUCTION PROCESS.
10. TURNING OR MANEUVERING OF BACKHOE, EXCAVATOR OR OTHER EQUIPMENT WILL BE MINIMIZED TO REDUCE SOIL DISTURBANCE.
11. ALL BARREN AREAS AND AREAS DISTURBED BY CONSTRUCTION SHALL BE REVEGETATED IN ACCORDANCE WITH THE TRPA HANDBOOK OF BEST MANAGEMENT PRACTICES. APPLICATION OF A MULCH MAY ENHANCE VEGETATIVE ESTABLISHMENT.

REVEGETATION SPECIFICATIONS

PART 1. GENERAL

ALL AREAS DISTURBED DURING CONSTRUCTION OTHER THAN EXISTING ACCESS ROADS, INCLUDING ACCESS CORRIDORS, STORAGE AREAS, STAGING AREAS, AND CONSTRUCTION AREAS SHALL BE STABILIZED ACCORDING TO THESE SPECIFICATIONS. UPON COMPLETION OF GRADING AND CONSTRUCTION, AND PRIOR TO REVEGETATION, ALL AREAS TO BE REVEGETATED WILL BE INSPECTED BY THE ENGINEER'S REVEGETATION SPECIALIST (RS). THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST FIVE WORKING DAYS PRIOR TO PLANTING TO SCHEDULE THE REQUIRED INSPECTION. FINAL SEEDING AND MULCH TREATMENT AREAS WILL BE STAKED IN THE FIELD AT THAT TIME. REVEGETATION TREATMENTS PERFORMED BY AN OUTSIDE CONTRACTOR SHALL NOT BE INITIATED WITHOUT THE APPROVAL OF THE ENGINEER. REVEGETATION PERFORMED BY HEAVENLY PERSONNEL NEED NOT BE APPROVED BY THE ENGINEER OR THE REVEGETATION SPECIALIST PRIOR TO INITIATING REVEGETATION WORK.

STABILIZATION TREATMENTS SHALL BE INSTALLED AS PER THESE SPECIFICATIONS AND THE PLAN SHEETS AND SHALL CONSIST OF WOOD CHIP INCORPORATION INTO THE TOP 12 INCHES OF SOIL, SEEDING, AND PINE NEEDLE/WOOD CHIP MULCH APPLICATION.

PART 2. PRODUCTS AND EXECUTION OF TREATMENTS

SEED
SEED MIXTURES ARE SHOWN IN TABLE 1 ON THIS SHEET.

SEED SHALL BE CLEAN NEW CROP SEED, PURCHASED PREMIXED ON A PURE LIVE SEED (PLS) BASIS. SEED SHALL BE DELIVERED TO THE SITE IN ORIGINAL UNOPENED CONTAINERS BEARING THE DEALER'S GUARANTEED ANALYSIS AND GERMINATION PERCENTAGE, AND SHALL MEET THE STATE OF CALIFORNIA FREEDOM FROM NOXIOUS WEED REQUIREMENTS. NO SUBSTITUTIONS IN THE SEED MIXTURE WILL BE ACCEPTED WITHOUT WRITTEN APPROVAL FROM THE RS.

SEED LABELS SHALL BE REMOVED FROM THE SEED SACKS BY THE RS AT THE TIME OF SEEDING. SEED LABELS WILL INCLUDE DOCUMENTATION FOR EACH TYPE OF SEED CERTIFYING THAT A RECOGNIZED LABORATORY TESTED THE SEED WITHIN 6 MONTHS OF THE DATE OF DELIVERY.

Table 1. Seed Mix

Common Name Variety	Scientific Name	Seeding Rate Pure Live Seed Pounds Per Acre
Squirreltail (high elevation collection)	Elymus elymoides ssp. Elymoides (Sierra)	10
Mokelumne or El Dorado Brome (or other high elevation Tahoe collection)	Bromus carinatus (Mokelumne)	5
Western Needlegrass (or other high elevation Tahoe collection)	Achnatherum occidentale	3
Antelope Bitterbrush (+5500 ft. Sierra Collection)	Purshia tridentata	5
Sulfur-flower Buckwheat	Erigonum umbellatum	2
Total PLS Pounds Per Acre Rate		25

PART 2 (CONT.) PRODUCTS AND EXECUTION OF TREATMENTS

WOOD CHIPS
WOOD CHIPS SHALL BE PREPARED FROM TREES REMOVED DURING CONSTRUCTION AND MAINTENANCE ACTIVITIES ON HEAVENLY MOUNTAIN RESORT. TOPS AND BRANCHES OF TREES REMOVED ON THIS AND OTHER HEAVENLY MOUNTAIN RESORT PROJECT SITES WILL BE CHIPPED TO A MINIMUM DIAMETER OF 2 INCHES, AND A MAXIMUM LENGTH OF 6 INCHES.

PINE NEEDLES
PINE NEEDLES SALVAGED FROM THE CONSTRUCTION SITE CAN BE USED AS A MULCH MATERIAL. PINE NEEDLE MULCH SHALL BE WEED FREE AND CLEAN WITHOUT DEBRIS, OR EXCESSIVE WOODY MATERIAL.

SOIL TREATMENT
ALL AREAS TO BE STABILIZED (WITH AND WITHOUT SEEDING) SHALL BE LOOSENED TO A DEPTH OF AT LEAST 12 INCHES TO ALLEVIATE COMPACTION AND TO INCORPORATE WOOD CHIPS TO IMPROVE WATER INFILTRATION AND WATER HOLDING CAPACITY. A UNIFORM 3-INCH LAYER OF WOOD CHIPS SHALL BE SPREAD ACROSS THE SURFACE OF THE TREATMENT AREAS. WOOD CHIPS SHALL BE INCORPORATED INTO THE TOP 12 INCHES OF SOIL BY AN APPROVED LOOSENING METHOD. AREAS SHALL BE RAKED SMOOTH FOLLOWING WOOD CHIP INCORPORATION.

SEEDBED PREPARATION
AREAS DESIGNATED FOR SEEDING BY THE RS SHALL BE UNIFORMLY BROADCAST SEEDED WITH HAND OPERATED BROADCAST SEEDERS. THE CONTRACTOR SHALL PROVIDE THE RS A WRITTEN STATEMENT OR SITE DEMONSTRATION TO VERIFY THAT THE SEEDING BROADCAST EQUIPMENT HAS BEEN CALIBRATED TO THE SPECIFIED APPLICATION RATES. LARGE AND SMALL SIZE SEED AS INDICATED IN TABLE 1 SHALL BE BROADCAST IN SEPARATE APPLICATIONS. SEEDING SHALL NOT OCCUR UNDER CONDITIONS THAT WOULD ALLOW SEED TO BECOME WIND BORN. SEED SHALL NOT BE INCORPORATED AND APPLIED WITH HYDROMULCH. IMMEDIATELY FOLLOWING BROADCASTING, THE SEEDED AREAS SHALL BE LIGHTLY HAND-RAKED TO PLACE THE SEED AT DEPTH OF 1/4 TO 1/2 INCH INTO THE SOIL. NO FURTHER VEHICULAR ACCESS WILL BE ALLOWED ON TREATMENT AREAS UPON COMPLETION OF SEEDING. SEEDINGS SHALL NOT BE LEFT OVERNIGHT WITHOUT RECEIVING MULCH TREATMENT.

PINE NEEDLE/ WOOD CHIP MULCH
ALL SEEDED AREAS SHALL BE MULCHED WITH PINE NEEDLES OR WOOD CHIPS. PINE NEEDLE MULCH SHALL BE SPREAD ACROSS SEEDED AREAS IN A LOOSE 2" LAYER TO ACHIEVE A MINIMUM OF 90 PERCENT COVER.

UNSEEDED TREATMENT AREAS SHALL BE MULCHED WITH WOOD CHIPS SPREAD IN A UNIFORM 6 TO 8 INCH LAYER.

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DETAIL SHEET

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