

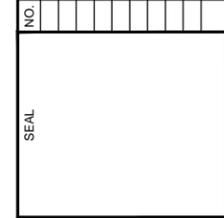


GENERAL NOTES

1. ALL IMPROVEMENTS SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION, AND TO THE SATISFACTION OF ALPINE COUNTY. IMPROVEMENT CONSTRUCTION SHALL COMPLY WITH THESE PLANS AND THE 2010 CALTRANS STANDARD PLANS, UNLESS NOTED OTHERWISE. ALL REFERENCES TO THE "STANDARD SPECIFICATIONS" SHALL MEAN THE 2010 CALTRANS STANDARD SPECIFICATIONS. CONSTRUCTION NOT SPECIFIED ON THESE PLANS OR IN SPECIFIC STATE, REGIONAL, OR LOCAL ORDINANCES SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS OBLIGATED TO BE FAMILIAR WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS NOT DISCUSSED IN THE GENERAL NOTES. THE CONTRACT SPECIAL PROVISIONS SHALL SUPERSEDE THOSE OF THE STANDARD SPECIFICATIONS WHERE DISCREPANCIES OCCUR.
2. CONSTRUCTION HOURS SHALL BE WEEKDAYS BETWEEN 8:00 A.M. AND 6:30 P.M. UNLESS PRIOR APPROVAL IS RECEIVED FROM ALPINE COUNTY.
3. THE LOCATIONS AND EXTENT OF EXISTING UNDERGROUND UTILITIES IN THE WORK AREA AS SHOWN ARE APPROXIMATE AND ARE NOT NECESSARILY COMPLETE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE EXISTING UTILITIES BASED UPON AVAILABLE RECORDS. THE CONTRACTOR SHALL DETERMINE THE TYPE, LOCATION, SIZE, AND/OR DEPTH OF THE EXISTING UTILITIES WITHIN THE WORK AREA BEFORE COMMENCING WORK. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT (800) 642-2444 AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION. SEE SPECIAL PROVISIONS FOR CONTRACTOR NOTIFICATION REQUIREMENTS. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR DAMAGED UTILITIES.
4. UNLESS NOTED OTHERWISE ON THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL PROVIDE, PLACE, AND MAINTAIN ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, PILOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC THROUGH THE CONSTRUCTION AREA AND FOR PUBLIC SAFETY IN ACCORDANCE WITH THESE PLANS, THE CALTRANS STANDARD PLANS AND SPECIFICATIONS, FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION.
6. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS IN ACCORDANCE WITH THE PROVISIONS OUTLINED BY THE PROJECT CONTRACT AND STANDARD SPECIFICATIONS.
7. THE CONTRACTOR SHALL MAINTAIN A SET OF PLANS ON THE JOB SHOWING "AS-CONSTRUCTED" CHANGES MADE TO DATE. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUPPLY TO ALPINE COUNTY A SET OF PLANS, MARKED UP TO THE SATISFACTION OF ALPINE COUNTY, REFLECTING THE AS-CONSTRUCTED MODIFICATIONS.
8. ALL CONTROL STATIONING AND DATA DIMENSIONING ARE REFERENCED TO THE CENTERLINE OF THE FACILITY SHOWN UNLESS OTHERWISE NOTED.
9. AT NO TIME SHALL THE CONTRACTOR UNDERTAKE TO CLOSE OFF ANY EXISTING UTILITY LINES OR OPEN VALVES OR TAKE ANY OTHER ACTION WHICH WOULD AFFECT THE OPERATION OF EXISTING WATER OR SEWER SYSTEMS WITHOUT PRIOR APPROVAL FROM ALPINE COUNTY. APPROVAL SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE TIME THAT THE INTERRUPTION OF THE EXISTING SYSTEM IS REQUIRED. ANY INTERRUPTION OF SERVICE TO ACTIVE WATER OR SEWER SERVICES, INCLUDING FIRE HYDRANTS, WHETHER INTENTIONAL OR NOT, MUST BE KEPT TO A MINIMUM TIME PERIOD. IF SERVICE TO BUILDINGS IS TO BE OFF FOR MORE THAN FOUR HOURS, THE CONTRACTOR MUST ADVISE ALPINE COUNTY.
10. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM PREVENTIVE DUST CONTROL MEASURES TO ENSURE THAT DUST RESULTING FROM THE CONTRACTOR'S PERFORMANCE OF THE WORK IS CONTROLLED IN CONFORMANCE WITH STATE, COUNTY, AND LOCAL ORDINANCES. SEE SPECIAL PROVISIONS REGARDING SWEEPING, DUST CONTROL AND TRACKING REQUIREMENTS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL TEMPORARY EROSION CONTROL MEASURES. THE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL CONTACT ALPINE COUNTY PRIOR TO THE COMMENCEMENT OF WORK FOR A PRE-GRADING INSPECTION OF THE INSTALLED TEMPORARY EROSION CONTROL FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PERFORMANCE OF THE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. SEE SPECIAL PROVISIONS REGARDING TEMPORARY EROSION CONTROL FACILITY REMOVAL.
12. CONSTRUCTION LIMITS SHOWN ON THE PLANS DELINEATE BOUNDARIES FOR THE CONTRACTOR'S OPERATIONS. CONSTRUCTION LIMIT FENCING SHALL BE ERECTED ALONG THESE BOUNDARIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. WITHIN THE CONSTRUCTION LIMITS, EXISTING VEGETATION SHALL BE PROTECTED TO THE EXTENT FEASIBLE. ALL EXISTING TREES SHALL BE PROTECTED UNLESS SHOWN ON THE PLANS TO BE REMOVED.
13. THE CONTRACTOR SHALL USE ONLY DESIGNATED SPECIFIC SITES FOR STORAGE OF EQUIPMENT AND MATERIALS AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF ALL EQUIPMENT AND MATERIALS. NO MATERIALS SHALL BE STOCKPILED AND NO CONSTRUCTION EQUIPMENT SHALL BE PARKED ON CONCRETE OR ASPHALT SURFACES OWNED BY ALPINE COUNTY.
14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND HIS SUBCONTRACTOR(S) TO EXAMINE THE PROJECT SITE PRIOR TO THE OPENING OF BID PROPOSALS. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, SUCH AS THE NATURE AND LOCATION OF THE WORK AND THE GENERAL AND LOCAL CONDITIONS, PARTICULARLY THOSE AFFECTING THE AVAILABILITY OF TRANSPORTATION, THE DISPOSAL, HANDLING, AND STORAGE OF MATERIALS, AVAILABILITY OF LABOR, WATER, ELECTRICITY, ROADS, THE UNCERTAINTIES OF WEATHER, THE CONDITIONS OF THE GROUND, SURFACE AND SUBSURFACE MATERIALS, THE EQUIPMENT AND FACILITIES NEEDED PRIMARILY FOR AND DURING THE PERFORMANCE OF THE WORK, AND THE COSTS THEREOF. ANY FAILURE BY THE CONTRACTOR AND SUBCONTRACTOR(S) TO ACQUAINT HIMSELF WITH ALL THE AVAILABLE INFORMATION WILL NOT RELIEVE HIM FROM RESPONSIBILITY FOR PROPERLY ESTIMATING THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK.
15. ELEVATIONS SHOWN ON THE PLANS FOR PIPE INVERTS, TOPS OF BANKS, THALWEGS, GRADE CONTROLS, ETC., ARE BASED UPON THE TOPOGRAPHIC INFORMATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL NECESSARY SURFACE ELEVATIONS IN THE FIELD AND NOTIFY ALPINE COUNTY OF ANY DISCREPANCIES, WHICH MIGHT AFFECT PROPER OPERATION OF THE NEW FACILITIES BEFORE BREAKING GROUND AND PRIOR TO FACILITY INSTALLATION. ALPINE COUNTY SHALL BE CONTACTED IN THE EVENT ELEVATIONS ARE INCORRECT SO THAT THE PROPER ADJUSTMENTS CAN BE MADE PRIOR TO THE INSTALLATION OF THE FACILITIES.
16. ALL CONSTRUCTION SHALL BE ACCOMPLISHED IN STRICT COMPLIANCE WITH THE PLANS APPROVED BY THE LAHONTAN REGIONAL WATER QUALITY BOARD.
17. REPLANTING OF ALL EXPOSED SURFACES, IN ACCORDANCE WITH THE PLANTING PLANS SHALL BE ACCOMPLISHED WITHIN THE FIRST CONSTRUCTION SEASON FOLLOWING DISTURBANCE, UNLESS AN APPROVED CONSTRUCTION/INSPECTION SCHEDULE IS ESTABLISHED OTHERWISE.
18. SOIL AND CONSTRUCTION MATERIAL SHALL NOT BE TRACKED OFF THE CONSTRUCTION SITE. GRADING OPERATIONS SHALL CEASE IN THE EVENT THAT A DANGER OF VIOLATING THIS CONDITION EXISTS.
19. LOOSE SOIL MOUNDS OR SURFACES SHALL BE PROTECTED FROM WIND OR WATER EROSION BY BEING APPROPRIATELY COVERED WHEN CONSTRUCTION IS NOT IN ACTIVE PROGRESS OR WHEN REQUIRED BY THE OVERSEEING ENGINEER.
20. EXCAVATED MATERIAL SHALL BE STORED UPGRADE FROM THE EXCAVATED AREAS TO THE EXTENT POSSIBLE NO MATERIAL SHALL BE STORED IN ANY UNDISTURBED STREAM ENVIRONMENT ZONE OR WET AREAS.
21. ONLY EQUIPMENT OF A SIZE AND TYPE THAT, UNDER PREVAILING SITE CONDITIONS, AND CONSIDERING THE NATURE OF THE WORK TO BE PERFORMED, WILL DO THE LEAST AMOUNT OF DAMAGE TO THE ENVIRONMENT SHALL BE USED.
22. THE CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL PERMITS, LICENSES, INSURANCE POLICIES, ETC., NOT ALREADY OBTAINED BY ALPINE COUNTY, AS MAY BE NECESSARY TO COMPLY WITH STATE AND LOCAL LAWS ASSOCIATED WITH THE PERFORMANCE OF THE WORK. SEE SPECIAL PROVISIONS.
23. THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE CONTRACT DOCUMENTS FOR ALL SUBMITTALS REQUIRED FOR ALPINE COUNTY'S REVIEW AND ACCEPTANCE.
24. THE CONSULTANT TEAM AND OVERSEEING ENGINEER RESPONSIBLE FOR PREPARATION OF THESE PLANS AND SPECIFICATIONS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE CONSULTANT TEAM AND OVERSEEING ENGINEER RESPONSIBLE FOR PREPARATION OF THESE PLANS.

30. NO TREES OR WETLAND VEGETATION SHALL BE REMOVED UNLESS THEY ARE SHOWN AND NOTED TO BE REMOVED ON THE PLANS, OR AS DIRECTLY SPECIFIED ON-SITE BY THE PROJECT MANAGEMENT STAFF. ALL TREES CONFLICTING WITH GRADING SHALL BE TRIMMED. NO GRADING SHALL TAKE PLACE WITHIN THE DRIP LINE OF TREES NOT TO BE REMOVED UNLESS OTHERWISE APPROVED.
31. IF, DURING CONSTRUCTION, ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED, CONSTRUCTION IN THE VICINITY SHALL BE HALTED, THE STATE HISTORIC PRESERVATION OFFICE AND ALPINE COUNTY SHALL BE NOTIFIED IMMEDIATELY.
32. PERMIT CONDITIONS MAY CONTAIN SPECIFIC REQUIREMENTS FOR THE CONTROL OF OFF-SITE TURBIDITY FROM PROJECT OPERATIONS. TURBIDITY WILL BE MONITORED ON A FREQUENT BASIS BY THE PROJECT MANAGEMENT AND INSPECTION STAFF ON-SITE. TURBIDITY AMOUNTS IN EXCESS OF THE PERMITTED AMOUNT AND/OR DURATIONS WILL CAUSE WORK TO BE STOPPED UNTIL IMPROVED PRACTICES ARE IN EFFECT AND THE PROBLEMS CONTROLLED. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR ANY PROJECT DELAYS THAT OCCUR BY NATURE OF THIS FAILURE TO ADEQUATELY CONTAIN SEDIMENT ON-SITE.
33. ALL CONSTRUCTION SITES SHALL BE WINTERIZED UPON CONSTRUCTION COMPLETION, TO REDUCE THE WATER QUALITY IMPACTS ASSOCIATED WITH WINTER WEATHER AS FOLLOWS: TEMPORARY EROSION CONTROLS SHALL BE INSTALLED; TEMPORARY VEGETATION PROTECTION FENCING SHALL BE INSTALLED; DISTURBED AREAS SHALL BE STABILIZED; ON-SITE CONSTRUCTION SLASH AND DEBRIS SHALL BE CLEANED UP AND REMOVED; WHERE FEASIBLE, MECHANICAL STABILIZATION AND DRAINAGE IMPROVEMENTS SHALL BE INSTALLED; AND SPOIL PILES SHALL BE REMOVED FROM THE SITE.
34. THE PROJECT SHALL BE SUBJECT TO INSPECTIONS BY ANY PERMITTING, REGULATORY, OR FUNDING AGENCY AT ANY TIME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE PROJECT AREA ACCESSIBLE FOR INSPECTION PURPOSES. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL PERMITTING, REGULATORY, AND FUNDING AGENCIES.
35. ALL BARREN AREAS AND AREAS DISTURBED BY CONSTRUCTION SHALL BE REVEGETATED. APPLICATION OF A MULCH MAY ENHANCE VEGETATIVE ESTABLISHMENT.
36. EXCAVATION EQUIPMENT SHALL BE LIMITED TO THE WORK AREA AS DEFINED IN THE PLANS TO MINIMIZE SITE DISTURBANCE.
37. THE DISCHARGE OF PETROLEUM PRODUCTS, CONSTRUCTION WASTE AND LITTER (INCLUDING SAWDUST), OR EARTHEN MATERIALS TO MARKLEEVILLE CREEK OR THE RECEIVING WATERS OF MARKLEEVILLE CREEK IS PROHIBITED. ALL SURPLUS CONSTRUCTION WASTE MATERIALS SHALL BE REMOVED FROM THE PROJECT AND DEPOSITED ONLY AT APPROVED POINTS OF DISPOSAL. DURING ANY CONSTRUCTION ACTIVITY, ALL VEHICLES SHALL DRIVE AT SPEEDS BELOW 15 MPH WHEN TRAVELING ON EXPOSED SURFACES.
38. DURING ANY CONSTRUCTION ACTIVITY, THE PERIOD OF TIME IN WHICH ANY PARTICULAR AREA REMAINS EXPOSED SHALL BE LIMITED TO THE MINIMUM EXTENT FEASIBLE.
39. THE PROJECT AREA IS UNDER THE JURISDICTION OF THE LAHONTAN REGIONAL WATER QUALITY BOARD AND ALPINE COUNTY. EACH OF THESE AGENCIES HAVE ISSUED A PERMIT FOR THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE REQUIREMENTS OF THOSE PERMITS.
40. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN AS SPECIFIED IN SPECIAL PROVISIONS OF THE CONSTRUCTION SPECIFICATIONS FOR APPROVAL. THE CONTRACTOR SHALL PROVIDE A COPY OF THE APPROVED PLAN TO ALPINE COUNTY, THE ENGINEER, AND CAL/EPA PRIOR TO ANY CONSTRUCTION OPERATION REQUIRING DEWATERING.
41. ALL CONSTRUCTION EQUIPMENT SHALL RECEIVE PERIODIC MAINTENANCE AS REQUIRED FOR EFFICIENT OPERATION TO REDUCE ENGINE EMISSIONS.
42. PRIOR TO COMMENCEMENT OF EARTH DISTURBING ACTIVITIES, TEMPORARY SILT BARRIERS SHALL BE INSTALLED ON THE DOWNHILL SIDE OF THE AREA OF DISTURBANCE OR AS SHOWN ON THESE PLANS. THIS FENCE SHALL BE KEPT IN PLACE AND MAINTAINED UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.
43. CONSTRUCTION MATERIALS SHALL BE SECURED TO PREVENT THEM FROM ROLLING, WASHING, OR BLOWING OFF THE PROJECT SITE. REHABILITATION AND CLEAN-UP OF THE SITE FOLLOWING CONSTRUCTION MUST INCLUDE REMOVAL OF ALL CONSTRUCTION WASTE AND DEBRIS.
44. THE CONTRACTOR SHALL USE TARPULINS OR OTHER EFFECTIVE COVERS FOR HAUL TRUCKS THAT TRAVEL ON PUBLIC STREETS.
45. THE CONTRACTOR SHALL SCHEDULE CLEARING AND EARTH MOVING ACTIVITIES DURING PERIODS OF LOW WIND SPEEDS AND RESTRICT THOSE CONSTRUCTION ACTIVITIES WHEN WIND SPEEDS ARE GREATER THAN 20 MPH AVERAGE DURING AN HOUR.
46. CONSTRUCTION EQUIPMENT OPERATORS SHALL TURN OFF EQUIPMENT WHEN NOT IN USE TO AVOID UNNECESSARY IDLING. AS A GENERAL RULE, CONSTRUCTION VEHICLE IDLING SHOULD BE KEPT BELOW TEN MINUTES.
47. BECAUSE OF THE NATURE OF THE PROJECT, CAREFUL GRADING IS MANDATORY. THE CONTOURS SHOWN ON THE PLANS REPRESENT THE GENERAL SHAPE OF THE LAND, BUT THE INTENT IS THAT ALL SLOPES, GRADE BREAKS, ETC. SHALL BE CONTOUR GRADED TO NATURAL, FLOWING SHAPES THAT SMOOTHLY TRANSITION. AS PART OF THE SCOPE OF WORK, THE CONTRACTOR SHALL WORK UNDER THE DIRECTION OF THE ENGINEER TO CREATE A NATURAL-LOOKING, IRREGULAR SURFACE WITH SMALL HUMMOCKS AND DEPRESSIONS IN THE WETLAND RESTORATION AREA RESEMBLING THE TOPOGRAPHY OF A NATURAL WETLAND. THIS WORK MAY REQUIRE HAND RAKING IN SOME AREAS AFTER GRADING OPERATIONS WITH EQUIPMENT ARE COMPLETED, AS DIRECTED BY THE ENGINEER.
48. THE CONSTRUCTION AREA FOR THE PROJECT IS LIMITED. THE CONTRACTOR SHALL EXERCISE THE UTMOST CARE TO LIMIT DISTURBANCE TO ADJACENT AREAS. THE ENGINEER AND THE CONTRACTOR WILL MARK THE LIMITS OF CONSTRUCTION PRIOR TO ANY WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONFINING ALL OF HIS CONSTRUCTION ACTIVITY TO WITHIN THESE LIMITS AND TO MAINTAIN THE BOUNDARY MARKERS.
49. IF EXCAVATED SOILS ARE SUITABLE AS DETERMINED BY THE ENGINEER FOR PLANT GROWTH, EXCAVATED MATERIAL SHALL BE STOCKPILED FOR USE WITHIN THE PROJECT AREA.
50. ANY ORGANIC LITTER OR DEBRIS SHALL BE REMOVED FROM THE TREATMENT AREA AND STOCKPILED FOR LATER REAPPLICATION.
51. PREPARED SEEDBEDS SHALL BE UNIFORMLY SEEDED UTILIZING HAND-OPERATED BROADCAST SEEDERS, OR APPROVED EQUAL, AS DIRECTED BY THE ENGINEER. NO MORE AREA SHALL BE SEEDED THAN CAN BE MULCHED IN THAT SAME DAY. SEEDING SHALL NOT OCCUR UNDER CONDITIONS THAT WOULD ALLOW THE SEED TO BECOME WIND-BORNE. IMMEDIATELY FOLLOWING SEED APPLICATION, THE SEEDED AREAS SHALL BE LIGHTLY HAND RAKED TO ASSURE SEED PLACEMENT AT A DEPTH OF 1/4 TO 1/2 INCH.
52. SEEDED AREAS SHALL BE MULCHED TO PREVENT SEED LOSS BY WIND ACTIVITY, AND TO PROVIDE FAVORABLE CONDITIONS FOR PLANT GROWTH. SEEDED AREAS SHALL NOT BE LEFT UNCOVERED MORE THAN 24 HOURS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
53. SALVAGED WILLOWS WILL BE PLANTED IN RANDOM CLUSTERS TO CREATE A NATURAL APPEARANCE. ACTUAL PLANTING LOCATIONS WILL BE SITED IN THE FIELD AT THE TIME OF PLANTING BY THE ENGINEER.
54. PLANTING HOLES SHALL BE HAND DUG LARGE ENOUGH AND DEEP ENOUGH TO ACCOMMODATE THE ENTIRE ROOT MASS WITH ENOUGH ROOM TO REPLACE SOIL EASILY. SOIL IN THE BOTTOMS AND ALONG THE SIDES OF THE PLANTING HOLES SHALL BE LOOSENEED. EXCAVATED PLANTING HOLES SHALL BE PLANTED IMMEDIATELY TO AVOID DRYING OF SOILS.
55. PLANTS SHALL NOT BE ALLOWED TO DRY OUT BEFORE PLANTING. ROOTS SHALL NOT BE EXPOSED TO AIR EXCEPT WHILE ACTUALLY BEING PLACED IN THE PLANTING HOLE. PLANTS SHALL BE REMOVED FROM CONTAINERS AND SET VERTICALLY IN THE CENTERS OF THE HOLES SUCH THAT THE TOP OF THE ROOT MASS WILL BE APPROXIMATELY 2 INCHES BELOW THE EXISTING GRADE FOLLOWING BACKFILLING. SOIL SHALL BE REPLACED AND FIRMLY PACKED TO ELIMINATE AIR POCKETS. IMMEDIATELY FOLLOWING PLANTING, EACH PLANT SHALL BE THOROUGHLY WATERED SUCH THAT THE SOIL AROUND THE ROOTS WILL BE SATURATED FROM THE BOTTOM OF THE HOLE TO THE TOP OF THE GROUND.
56. IRRIGATION SHALL BE PROVIDED TO THE ENTIRE REVEGETATION AREA TO ESTABLISH THE SEEDING AND MAINTAIN THE CONTAINER PLANTINGS THROUGHOUT THE REMAINDER OF THE FIRST GROWING SEASON AND THE ENTIRE SECOND GROWING SEASON.
57. WATER DELIVERY TO THE REVEGETATION AREA SHALL BE LOW IMPACT TO PREVENT WASHING OF SOILS AND MULCH MATERIAL. A REGULAR WATERING FREQUENCY SHALL BE SCHEDULED AND ADJUSTED AS NECESSARY SUCH THAT NEITHER FLOODING NOR DESICCATION OF THE REVEGETATION AREA OCCURS. EXTREME CARE SHALL BE TAKEN WHEN WATERING CONTAINER PLANTINGS NOT TO DISTURB SEEDINGS AND STREAMBANKS.
58. ALL DISTURBED AREAS WILL BE REVEGETATED AS SHOWN ON THE PLANS.

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**Cardno**  
**ENTRIX**

295 HWY 50, SUITE 1  
STATELINE, NV 89449  
(775) 588-9069

**95% PLANS  
NOT FOR  
CONSTRUCTION**

**\* CALL BEFORE  
YOU DIG \***  
CONTACT UNDERGROUND SERVICE  
ALERT (USA)  
1-800-227-2600  
PRIOR TO ANY CONSTRUCTION WORK

**NOTES SHEET**

**MARKLEEVILLE CREEK RESTORATION**

**ALPINE COUNTY, CALIFORNIA**

DATE: 3/2014  
DRAWN BY: AM  
CHECKED BY: CM  
SCALE: AS SHOWN  
ENTRIX JOB NO. 33430001  
FIGURE NO.

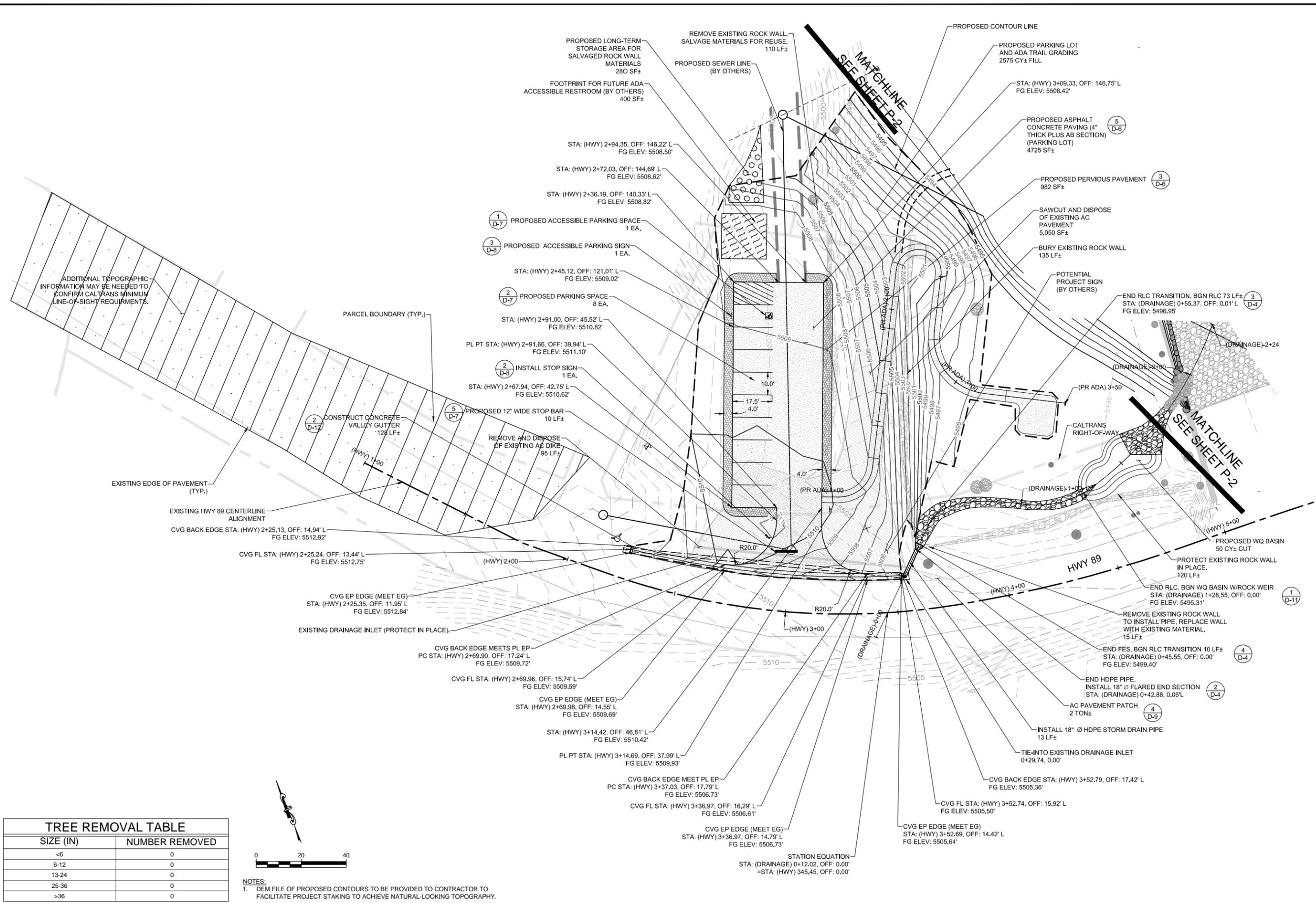
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| TREE REMOVAL TABLE |                |
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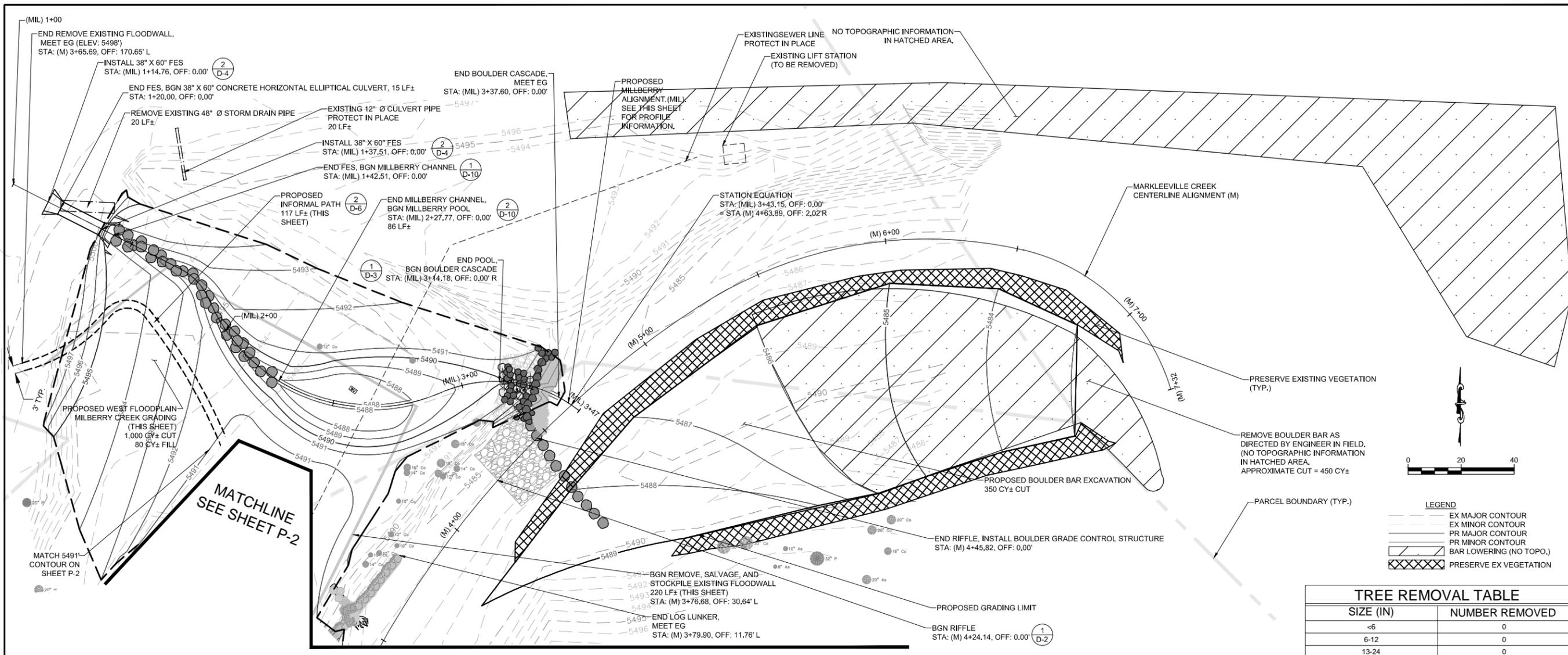
NOTES:  
 1. DEM FILE OF PROPOSED CONTOURS TO BE PROVIDED TO CONTRACTOR TO FACILITATE PROJECT STAKING TO ACHIEVE NATURAL-LOOKING TOPOGRAPHY.

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| 295 HWY 50, SUITE 1<br>STATELINE, NV 89449<br>(775) 588-9069  |          |
| <b>95% PLANS<br/>         NOT FOR<br/>         CONSTRUCTION</b>   |          |
| <b>PLAN SHEET</b><br><b>PARKING LOT AND CALTRANS ROW</b><br><b>MARKLEEVILLE CREEK RESTORATION</b><br><b>ALPINE COUNTY, CALIFORNIA</b> |          |
| DATE:   | 3/2014   |
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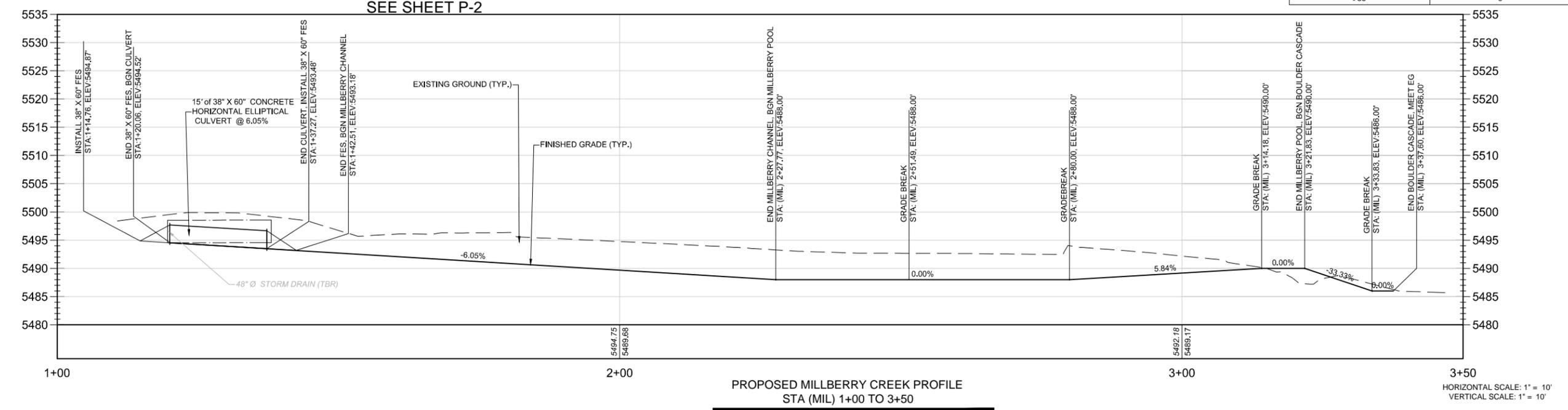


**LEGEND**

- EX MAJOR CONTOUR
- EX MINOR CONTOUR
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- BAR LOWERING (NO TOPO.)
- PRESERVE EX VEGETATION

**TREE REMOVAL TABLE**

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| <b>95% PLANS<br/>NOT FOR<br/>CONSTRUCTION</b>   |                              |  |  |  |  |  |  |  |  |
| <b>PLAN AND PROFILE SHEET</b><br><b>MILLBERRY AND LOWER MARKLEEVILLE</b><br><b>MARKLEEVILLE CREEK RESTORATION</b><br><b>ALPINE COUNTY, CALIFORNIA</b> |                              |  |  |  |  |  |  |  |  |
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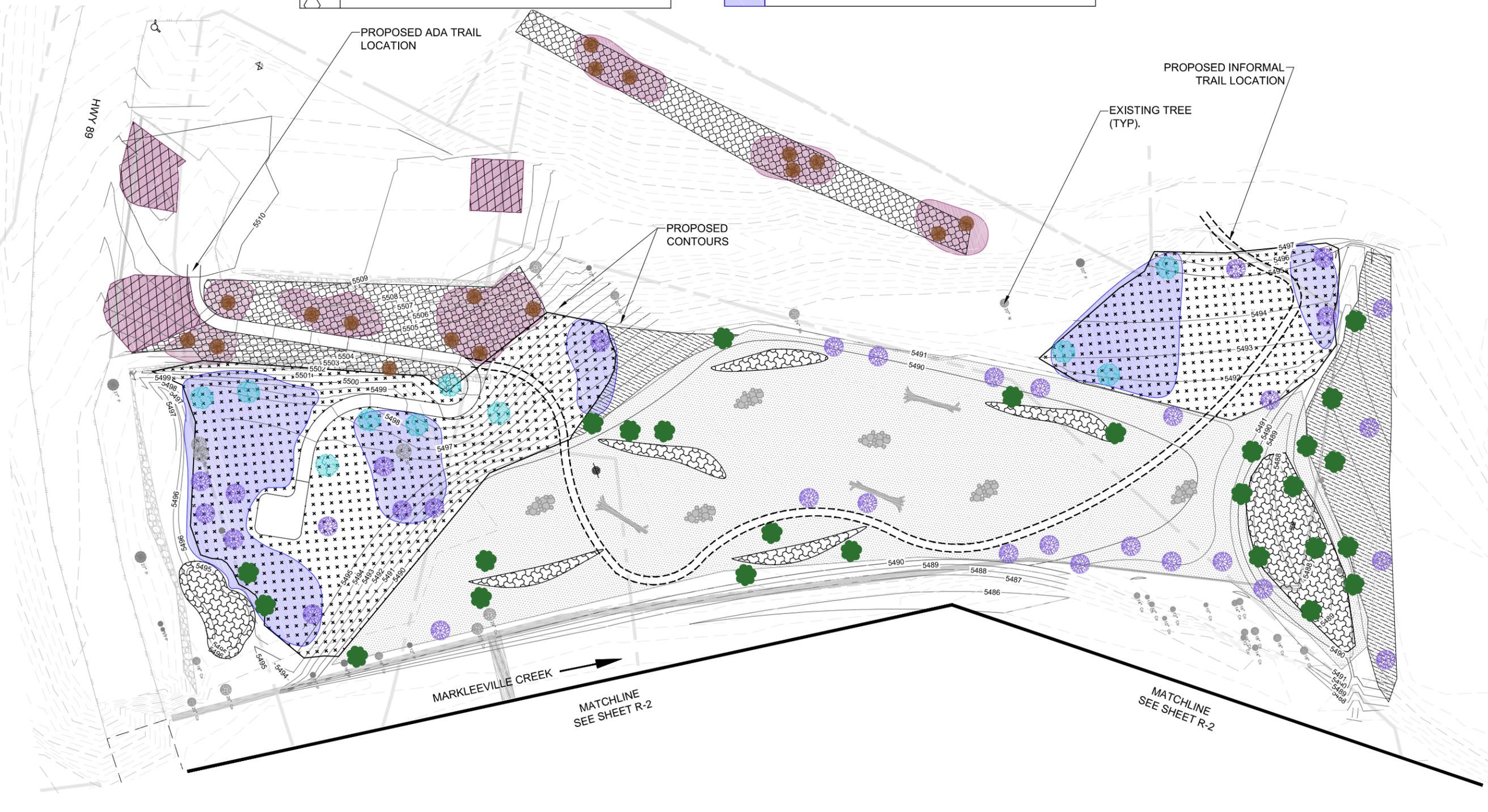
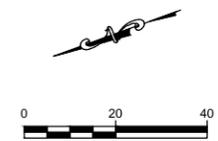
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NOTE: PLANTING SPACING VARIES BASED ON TREATMENT TYPE:

1. TYPE A - WETLAND
  - a. WETLAND PLUGS - 1-2 FT OC
  - b. WILLOW TRANSPLANTS OR POLES - 5 FT OC
2. TYPE B - FLOODPLAIN
  - a. WILLOW TRANSPLANTS OR POLES - 5 FT OC
  - b. WILLOW CONTAINERS - 5 FT OC
  - c. COTTONWOOD CONTAINERS - 10 FT OC
2. TYPE C - WOODY RIPARIAN
  - a. WILLOW/ALDER/COTTONWOOD TRANSPLANTS OR POLES - 5 FT OC
  - b. WILLOW/ALDER CONTAINERS - 5 FT OC
  - c. COTTONWOOD CONTAINERS - 10 FT OC
3. TYPE D - UPLAND TRANSITION
  - a. WILLOW/ALDER/COTTONWOOD TRANSPLANTS OR POLES - 5 FT OC
  - b. COTTONWOOD CONTAINERS - 15 FT OC
  - c. ASPEN CONTAINERS - 15 FT OC
  - d. SHRUBS - 6 FT OC
3. TYPE E - UPLAND
  - a. JEFFREY PINES - 18 FT OC
  - b. SHRUBS - 6 FT OC
4. TYPE F - XERISCAPING
  - a. SHRUBS - 6 FT OC

| REVEGETATION LEGEND - TREATMENT TYPE |   |
|--------------------------------------|---|
|                                      | TYPE A - WETLAND (3,500 SF± THIS SHEET)                                   |
|                                      | TYPE B - FLOODPLAIN (WITH FLOODPLAIN SEED MIX) (23,420 SF± THIS SHEET)    |
|                                      | TYPE C - WOODY RIPARIAN (WITH FLOODPLAIN SEED MIX) (3,100 SF± THIS SHEET) |
|                                      | TYPE D - UPLAND TRANSITION (WITH UPLAND SEED MIX) (17,110 SF± THIS SHEET) |
|                                      | TYPE E - UPLAND (WITH UPLAND SEED MIX) (6,770 SF± THIS SHEET)             |
|                                      | TYPE F - XERISCAPING (WITH UPLAND SEED MIX) (1,780 SF± THIS SHEET)        |
|                                      | TYPE G - GRAVEL BAR (NOT ON THIS SHEET)                                   |

| REVEGETATION LEGEND - SPECIES MIX |   |
|-----------------------------------|---|
|                                   | ALDER/WILLOW MIX (3-4 INDIVIDUALS) (NONE ON THIS SHEET) |
|                                   | ASPENS (3-4 INDIVIDUALS) (10 EA±)                       |
|                                   | WILLOWS (3-4 INDIVIDUALS) (26 EA±)                      |
|                                   | COTTONWOODS (3-4 INDIVIDUALS) (33 EA±)                  |
|                                   | JEFFREY PINE (INDIVIDUAL) (18 EA±)                      |
|                                   | UPLAND SHRUB UNDERSTORY (5,120 SF± THIS SHEET)          |
|                                   | RIPARIAN SHRUB UNDERSTORY (7,640 SF± THIS SHEET)        |



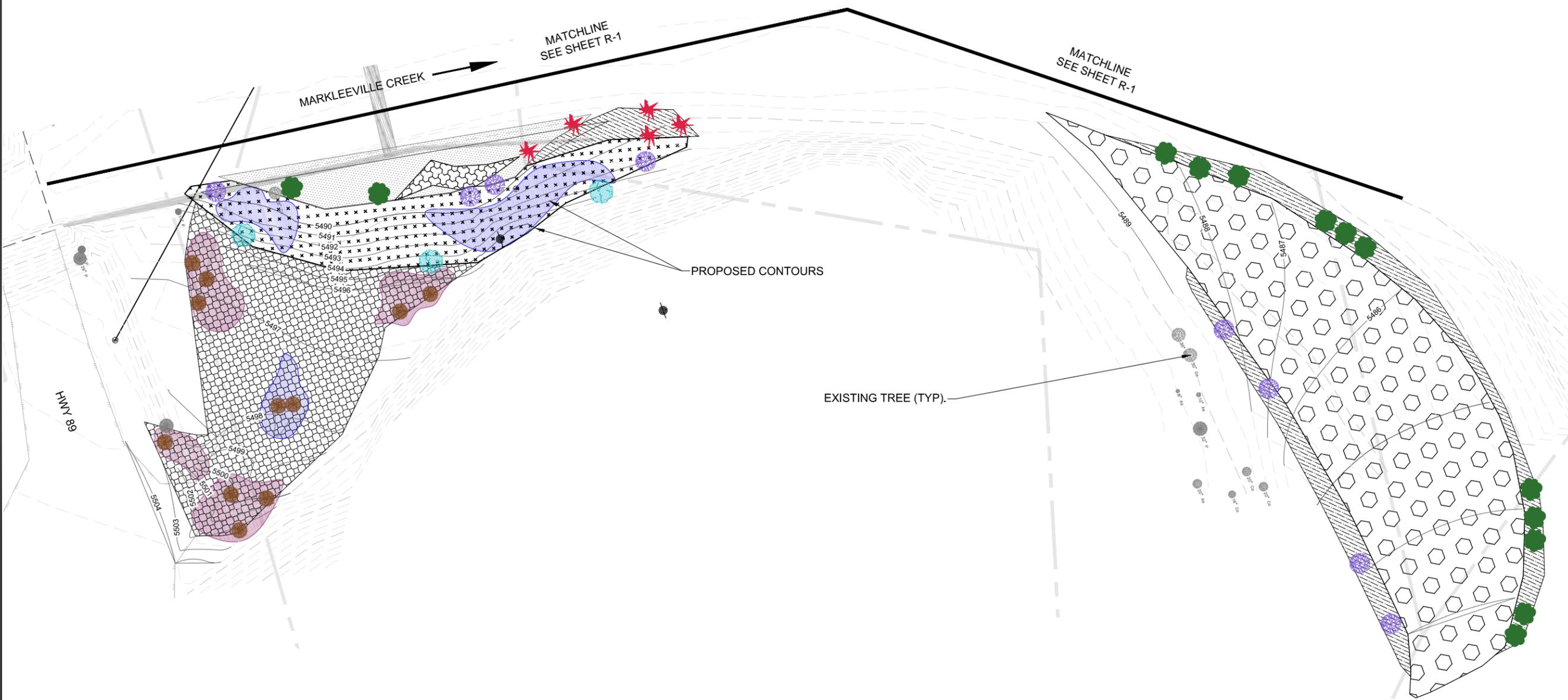
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| 295 HWY 50, SUITE 1<br>STATELINE, NV 89449<br>(775) 588-9069 |                    |
| <b>95% PLANS<br/>NOT FOR<br/>CONSTRUCTION</b>                |                    |
| REVEGETATION SHEET   | REVEGETATION SHEET |
| <b>MARKLEEVILLE CREEK RESTORATION</b>                        |                    |
| ALPINE COUNTY, CALIFORNIA                                    |                    |
| DATE:  | 3/2014             |
| DRAWN BY:  | AM                 |
| CHECKED BY:  | CM                 |
| SCALE:   | AS SHOWN           |
| ENTRIX JOB NO.   | 33430001           |
| FIGURE NO.   |                    |
| <b>R-1</b>   |                    |
| SHEET 11 OF 25   |                    |

NOTE: PLANTING SPACING VARIES BASED ON TREATMENT TYPE:

1. TYPE A - WETLAND
  - a. WETLAND PLUGS - 1-2 FT OC
  - b. WILLOW TRANSPLANTS OR POLES - 5 FT OC
2. TYPE B - FLOODPLAIN
  - a. WILLOW TRANSPLANTS OR POLES - 5 FT OC
  - b. WILLOW CONTAINERS - 5 FT OC
  - c. COTTONWOOD CONTAINERS - 10 FT OC
3. TYPE C - WOODY RIPARIAN
  - a. WILLOW/ALDER/COTTONWOOD TRANSPLANTS OR POLES - 5 FT OC
  - b. WILLOW/ALDER CONTAINERS - 5 FT OC
  - c. COTTONWOOD CONTAINERS - 10 FT OC
4. TYPE D - UPLAND TRANSITION
  - a. WILLOW/ALDER/COTTONWOOD TRANSPLANTS OR POLES - 5 FT OC
  - b. COTTONWOOD CONTAINERS - 15 FT OC
  - c. ASPEN CONTAINERS - 15 FT OC
  - d. SHRUBS - 6 FT OC
5. TYPE E - UPLAND
  - a. JEFFREY PINES - 18 FT OC
  - b. SHRUBS - 6 FT OC
6. TYPE F - XERISCAPING
  - a. SHRUBS - 6 FT OC

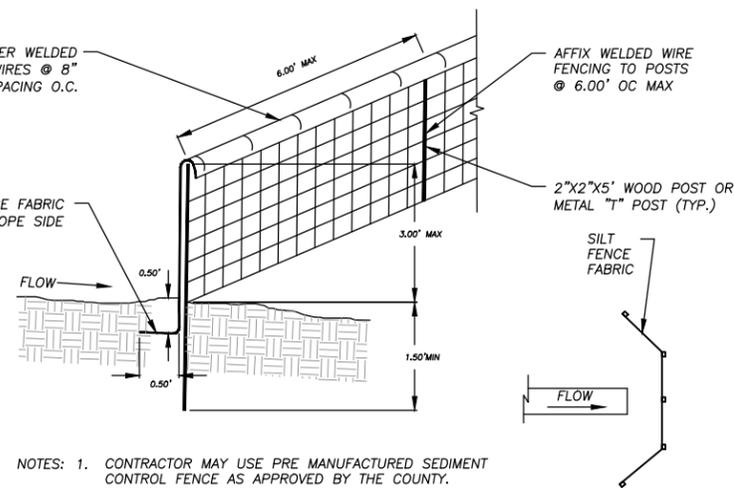
| REVEGETATION LEGEND - TREATMENT TYPE |   |
|--------------------------------------|---|
|                                      | TYPE A - WETLAND (270 SF± THIS SHEET)                                     |
|                                      | TYPE B - FLOODPLAIN (WITH FLOODPLAIN SEED MIX) (1,650 SF± THIS SHEET)     |
|                                      | TYPE C - WOODY RIPARIAN (WITH FLOODPLAIN SEED MIX) (4,000 SF± THIS SHEET) |
|                                      | TYPE D - UPLAND TRANSITION (WITH UPLAND SEED MIX) (3,630 SF± THIS SHEET)  |
|                                      | TYPE E - UPLAND (WITH UPLAND SEED MIX) (6,480 SF± THIS SHEET)             |
|                                      | TYPE F - XERISCAPING (WITH UPLAND SEED MIX) NONE ON THIS SHEET            |
|                                      | TYPE G - GRAVEL BAR   |

| REVEGETATION LEGEND - SPECIES MIX |  |
|-----------------------------------|--|
|                                   | ALDER/WILLOW MIX (3-4 INDIVIDUALS) (5 EA±)       |
|                                   | ASPENS (3-4 INDIVIDUALS) (3 EA±)                 |
|                                   | WILLOWS (3-4 INDIVIDUALS) (13 EA±)               |
|                                   | COTTONWOODS (3-4 INDIVIDUALS) (8 EA±)            |
|                                   | JEFFREY PINE (INDIVIDUAL) (11 EA±)               |
|                                   | UPLAND SHRUB UNDERSTORY (2,030 SF± THIS SHEET)   |
|                                   | RIPARIAN SHRUB UNDERSTORY (1,260 SF± THIS SHEET) |



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| <b>95% PLANS<br/>NOT FOR<br/>CONSTRUCTION</b>   |          |
| <b>REVEGETATION SHEET</b><br><br><b>MARKLEEVILLE CREEK RESTORATION</b><br><br>ALPINE COUNTY, CALIFORNIA |          |
| DATE:   | 3/2014   |
| DRAWN BY:   | AM       |
| CHECKED BY:   | CM       |
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| FIGURE NO.  |          |
| R-2   |          |
| SHEET 12 OF 25  |          |

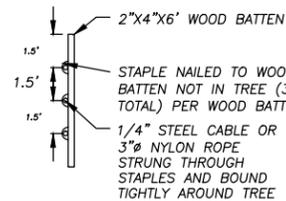
DRAPE SILT FENCE FABRIC OVER WELDED WIRE AND FASTEN WITH TIE WIRES @ 8" VERTICAL AND 3' HORIZONTAL SPACING O.C.



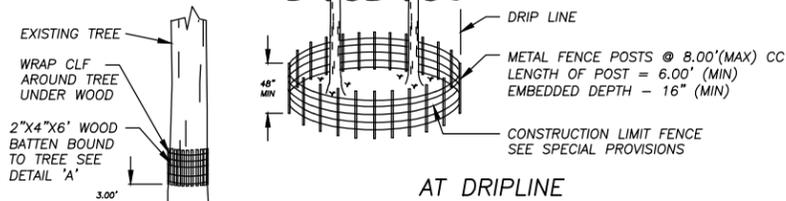
- NOTES:
1. CONTRACTOR MAY USE PRE MANUFACTURED SEDIMENT CONTROL FENCE AS APPROVED BY THE COUNTY. SEE SPECIAL PROVISIONS.
  2. PLACE FENCING SUCH THAT STORM RUNOFF CANNOT PASS AROUND OR UNDER FENCE

TYPICAL FILTER FENCE TYPE 1  
NTS

1  
D-1



DETAIL 'A'

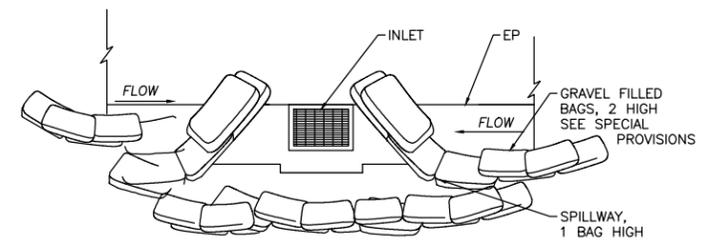


NOT AT DRIPLINE

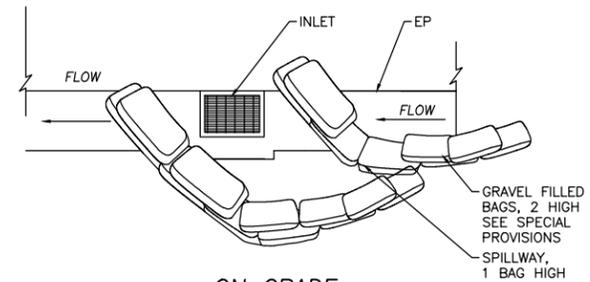
- NOTE: DETAIL SHOWN IS FOR TREE PROTECTION FENCE, MATERIAL AND SPACING SHOWN ALSO APPLY TO CONSTRUCTION LIMIT FENCE. CLF & TREE PROTECTION FENCE SHALL BE 48" HIGH MINIMUM. FOR TREES WITH DRIPLINES THAT OVERHANG THE CONSTRUCTION AREAS, THE LOCATION OF THE TREE PROTECTION FENCE SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER AND/OR TRPA AT PREGRADE MEETING.

TYPICAL TREE PROTECTION AND CONSTRUCTION LIMIT FENCE  
NTS

2  
D-1



AT SAG



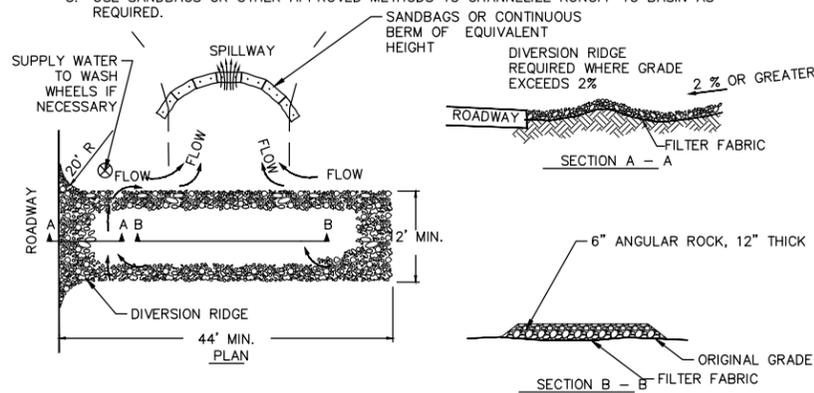
ON GRADE

- NOTES:
1. INTENDED FOR SHORT-TERM USE ONLY.
  2. USE TO INHIBIT NON-STORMWATER SUCH AS DUST CONTROL WATERING FLOW.
  3. ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
  4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.
  5. SEE CALTRANS STANDARD DETAIL T62 FOR ADDITIONAL INFORMATION.

TYPICAL DRAINAGE INLET OR SEDIMENT TRAP PROTECTION  
NTS

3  
D-1

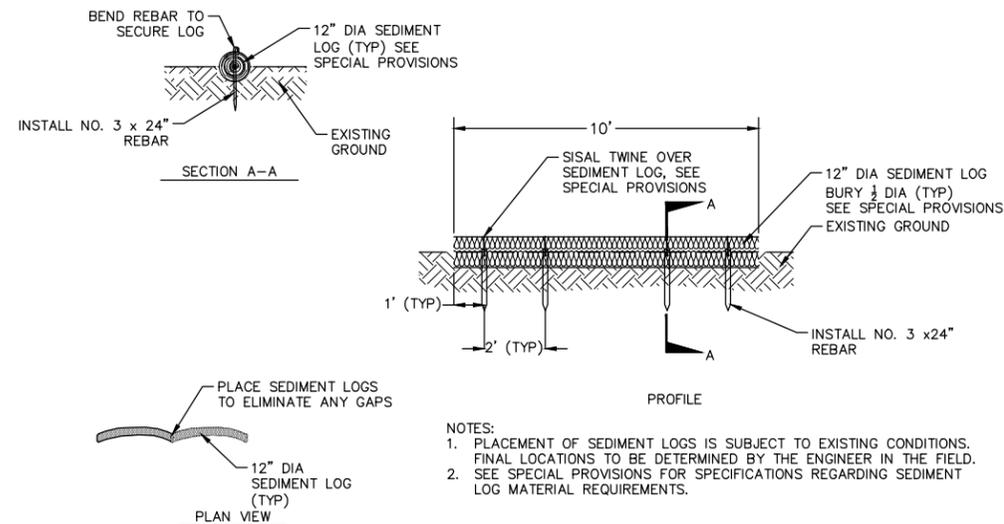
- NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADWAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
  3. USE SANDBAGS OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED.



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT  
NTS

4

D-1



- NOTES:
1. PLACEMENT OF SEDIMENT LOGS IS SUBJECT TO EXISTING CONDITIONS. FINAL LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
  2. SEE SPECIAL PROVISIONS FOR SPECIFICATIONS REGARDING SEDIMENT LOG MATERIAL REQUIREMENTS.

SEDIMENT LOG  
NTS

5

D-1

| DATE | REVISIONS | NO. | SEAL |
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295 HWY 50, SUITE 1  
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DETAIL SHEET

MARKLEEVILLE CREEK RESTORATION

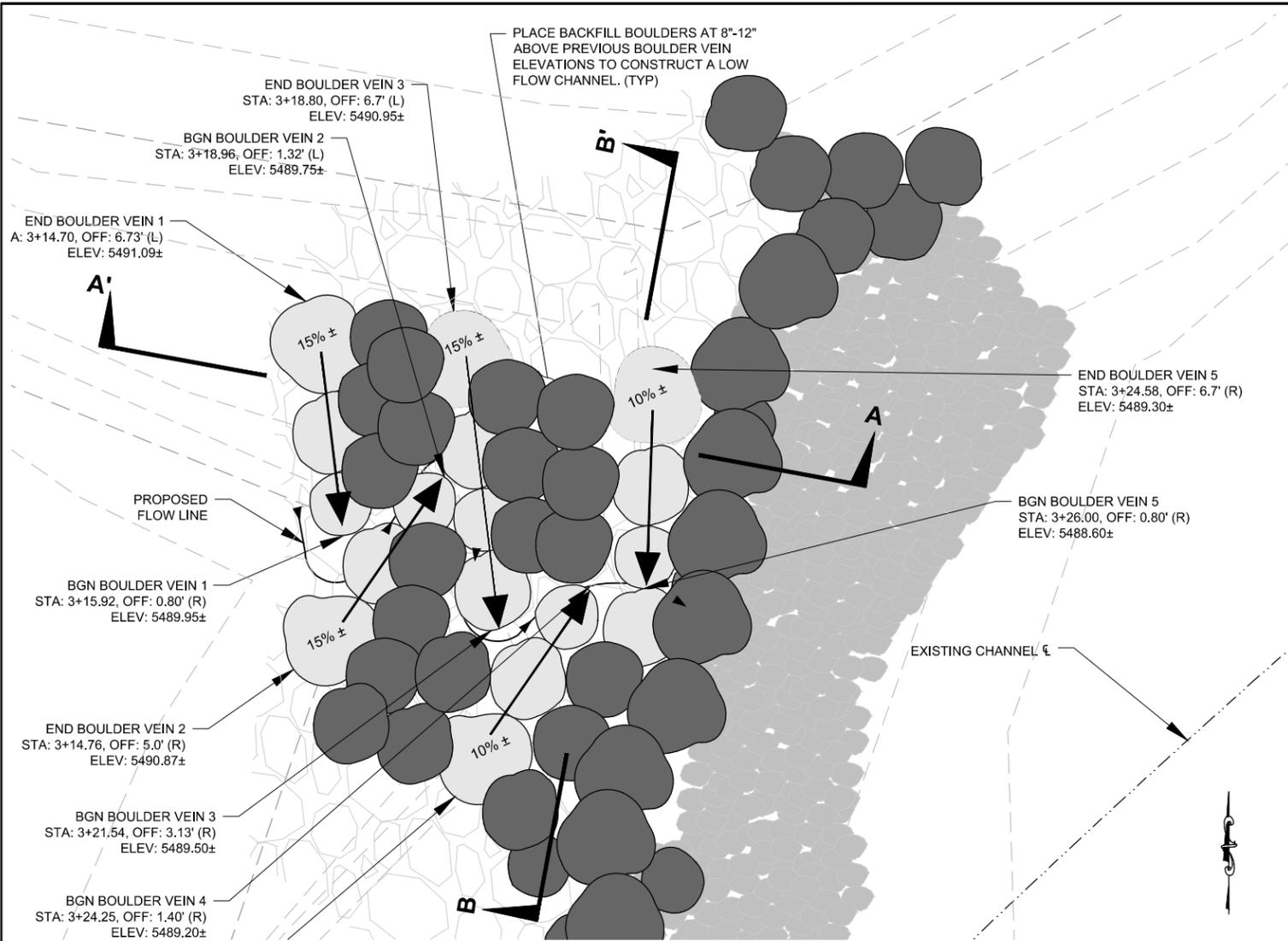
ALPINE COUNTY, CALIFORNIA

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| DATE:          | 3/2014   |
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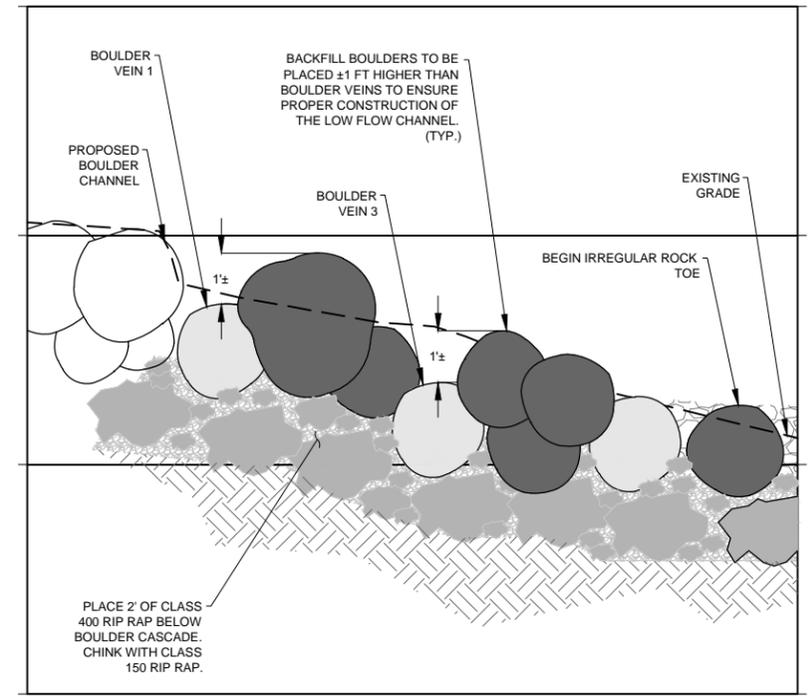
D-1

SHEET 13 OF 25

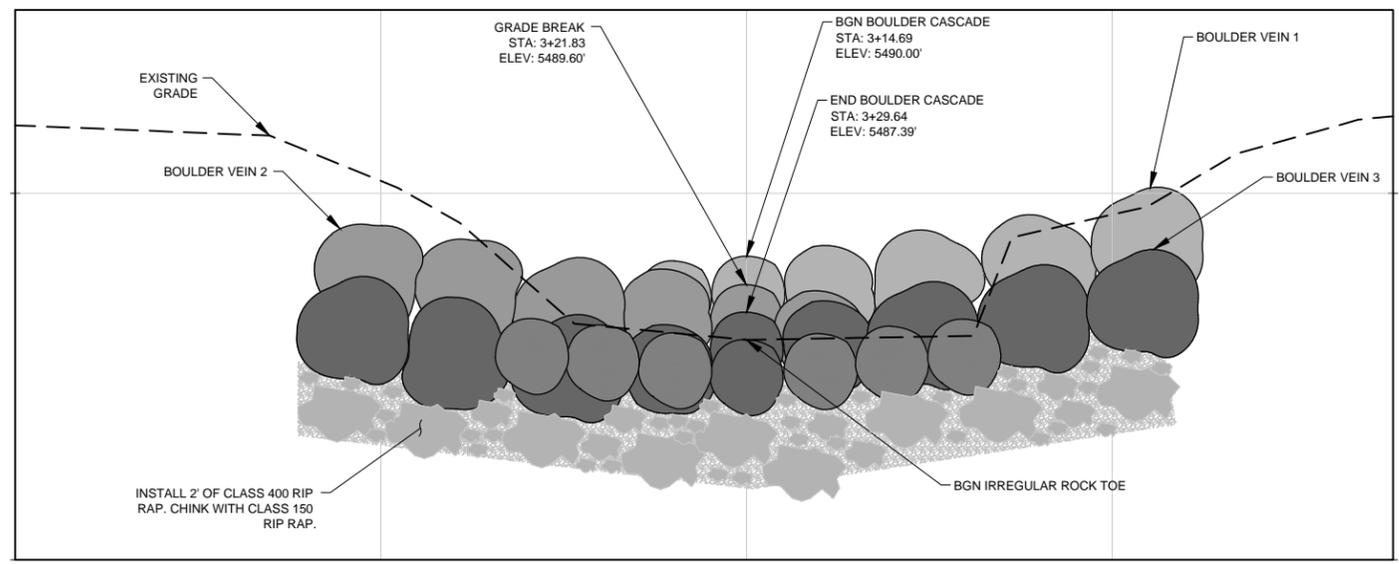




**PLAN VIEW**  
NTS



**SECTION A-A'**  
NTS



**SECTION B-B'**  
NTS

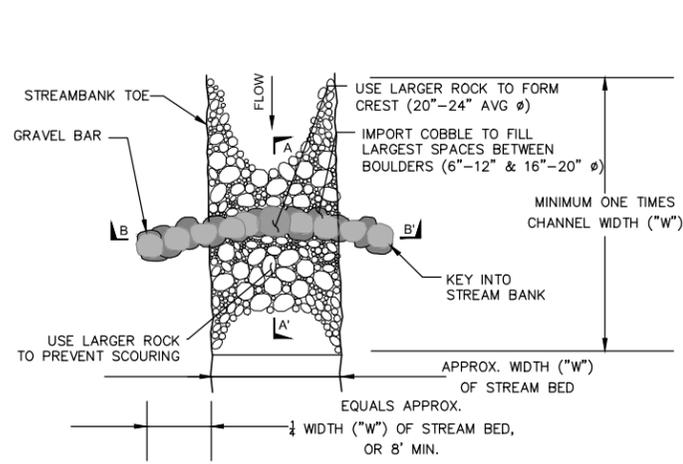
**BOULDER CASCADE**  
NTS

1  
D-3

- NOTES:
- ONLY KEY ELEMENTS OF THE BOULDER CASCADE ARE SHOWN. CONTRACTOR SHALL EXTEND CASCADE INTO EXISTING BANKS 10 LF ±.
  - ALL ROCK PLACED IN BOULDER CASCADE SHALL BE 1-2 TON.
  - STATION AND OFFSETS BASED OFF OF THE MILLBERRY CHANNEL ALIGNMENT.

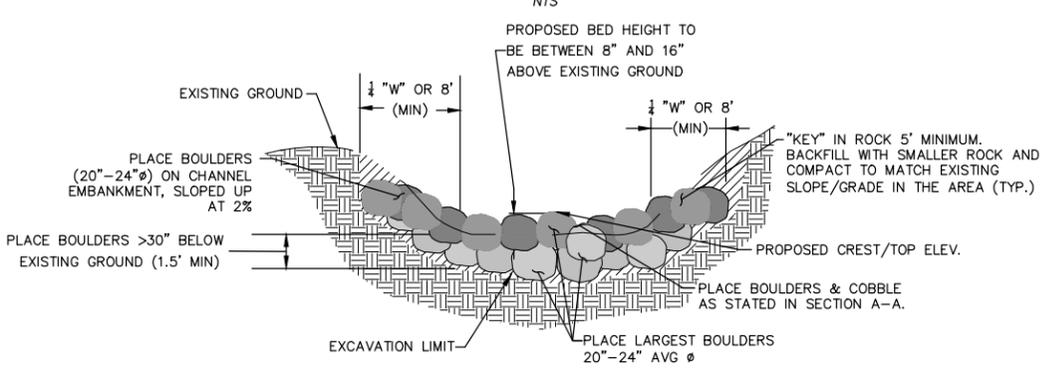
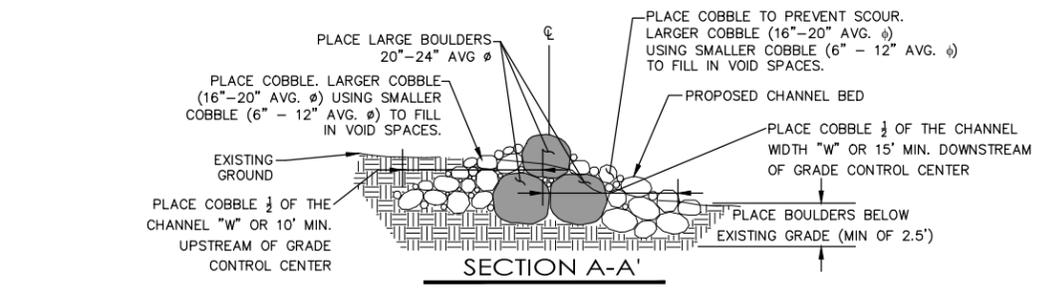
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| DATE:   | 3/2014     |
| DRAWN BY:   | AM         |
| CHECKED BY:   | CM         |
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| ENTRIX JOB NO.  | 33430001   |
| FIGURE NO.  | <b>D-3</b> |
| SHEET   | 15 OF 25   |

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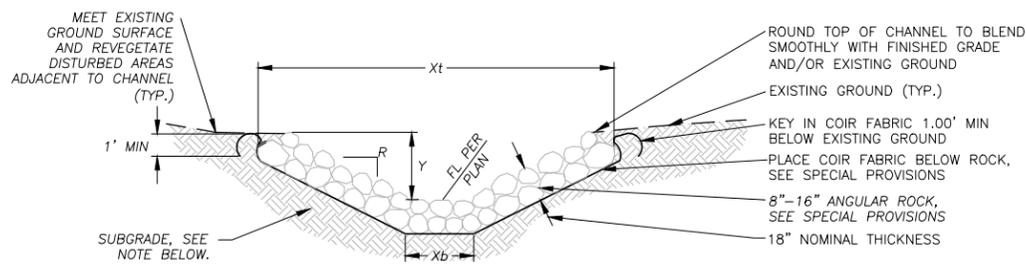


**NOTES:**  
 1. LARGE BOULDERS (20"-24" AVG Ø) PLACED TO FROM CREST IN GRADE CONTROL STRUCTURE SHALL BE PLACED (VERTICAL/ELEVATION) STARTING AT 1/2 OF CHANNEL 28"-32" BELOW EXISTING GROUND.  
 2. THE ELEVATION OF THE LARGE BOULDERS (20"-24" AVG Ø) SHALL INCREASE AT 2% ± GOING AWAY FROM THE CHANNEL 1/2 AND INTO THE EMBANKMENT. THE BOTTOM OF THE ROCK IN THE CHANNEL 1/2 SHALL BE APPROXIMATELY 0.25' LOWER THAN THE LAST ROCK PLACED (FURTHEST INTO EMBANKMENT).

**PLAN VIEW**  
NTS



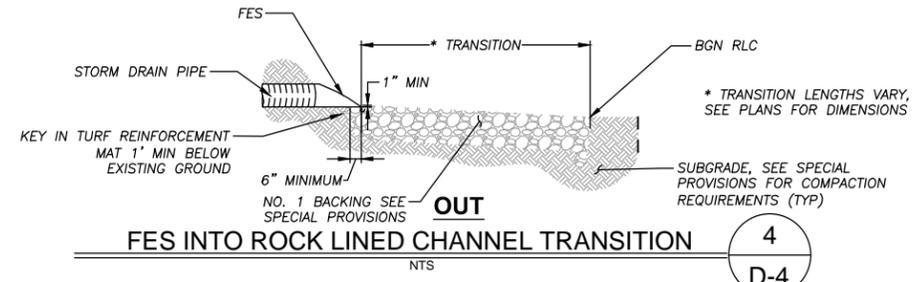
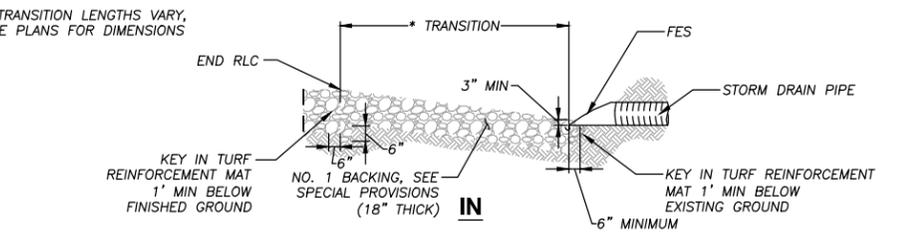
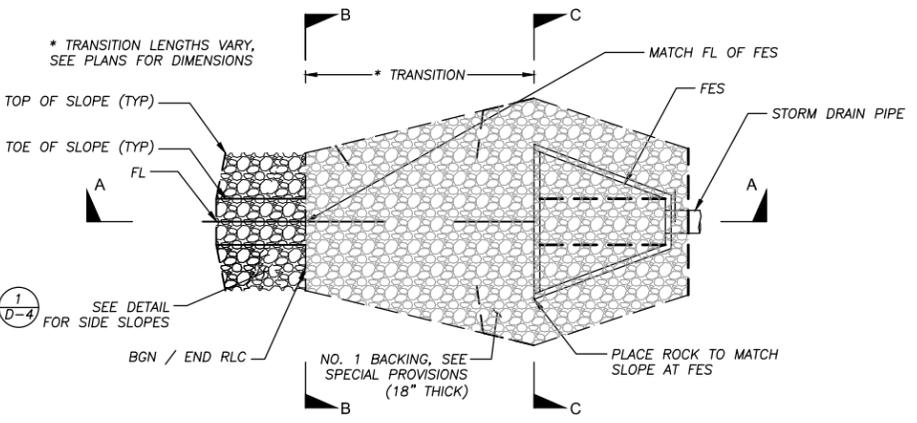
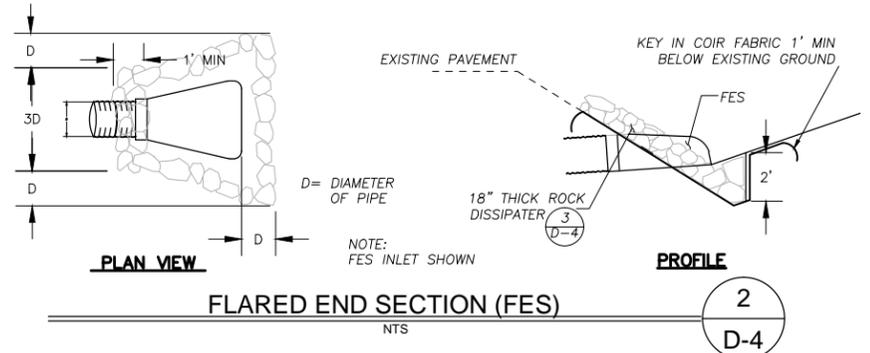
**SECTION B-B'**  
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| STATION**                | WIDTH, X1* (EXCAVATION) | WIDTH, Xb (EXCAVATION) | DEPTH, Y* | SLOPE RATIO, R |
|--------------------------|-------------------------|------------------------|-----------|----------------|
| STA (DRAINAGE) 55+39 ±   | 8.0' ±                  | 0                      | 1.93' ±   | 2:1 ±          |
| STA (DRAINAGE) 66.14 ±   | 6.5' ±                  | 0                      | 1.57' ±   | 2:1 ±          |
| STA (DRAINAGE) 82.04 ±   | 4.5' ±                  | 0                      | 1.07' ±   | 2:1 ±          |
| STA (DRAINAGE) 1+02.07 ± | 3.75' ±                 | 0                      | 1.07' ±   | 2:1 ±          |
| STA (DRAINAGE) 1+26.00 ± | 5.0' ±                  | 0                      | 1.22' ±   | 2:1 ±          |

**NOTES:**  
 1. \*\*X1\*\* DEPICTS MIN REQ'D DEPTH OF CHANNEL. \*\*Xt\*\* DEPICTS MIN REQ'D WIDTH OF CHANNEL AND R DEPICTS SIDE SLOPE. HEIGHT/RATIO MAY VARY DEPENDING ON EXISTING TERRAIN. TO MAINTAIN A 2' SHOULDER AT ROADWAYS. SEE PLAN VIEWS AND CROSS-SECTIONS FOR GRADING LIMITS. ACTUAL DIMENSIONS ARE AS SHOWN ON PLAN AND CROSS-SECTION VIEWS.  
 2. SEE SPECIAL PROVISIONS FOR SUBGRADE COMPACTION REQUIREMENTS.  
 3. THE DIMENSIONS DEPICTED IN THIS TABLE ARE MINIMUM DIMENSIONS. ACTUAL DIMENSIONS ARE AS SHOWN ON THE PLANS AND CROSS-SECTIONS.

**ROCK LINED CHANNEL (RLC)**  
NTS

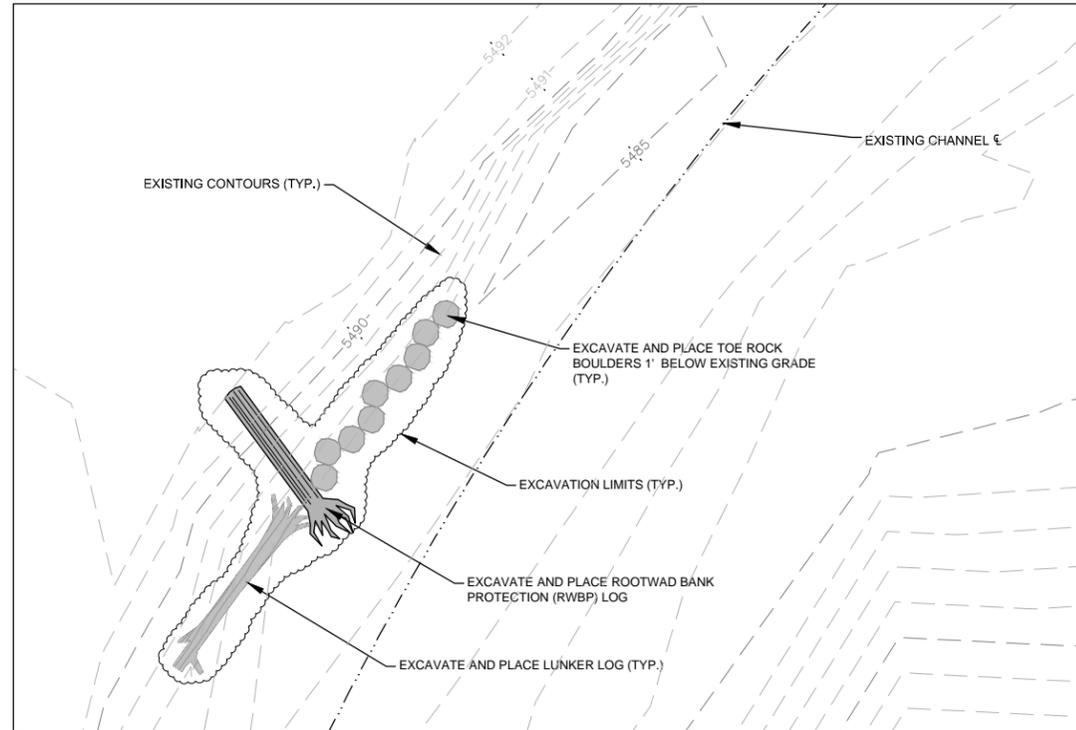


**FES INTO ROCK LINED CHANNEL TRANSITION**  
NTS

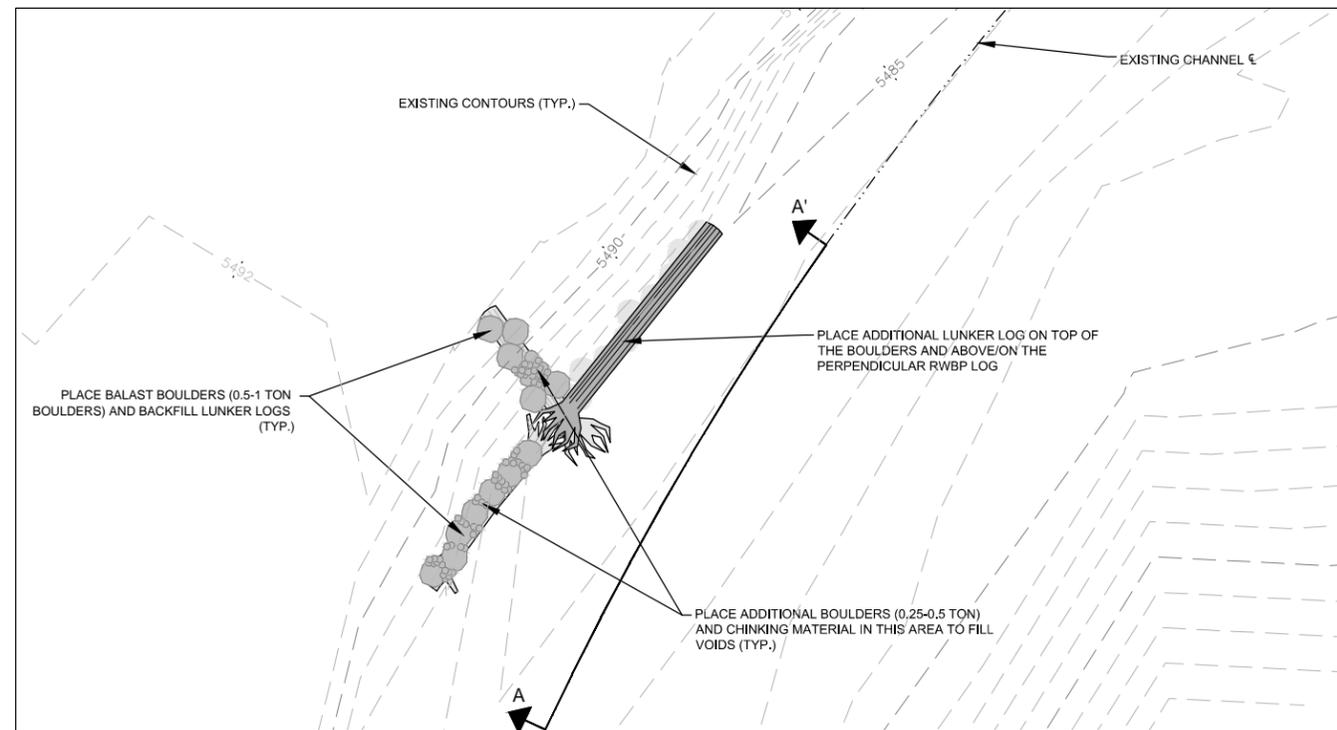


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| DATE:  | 3/2014   |
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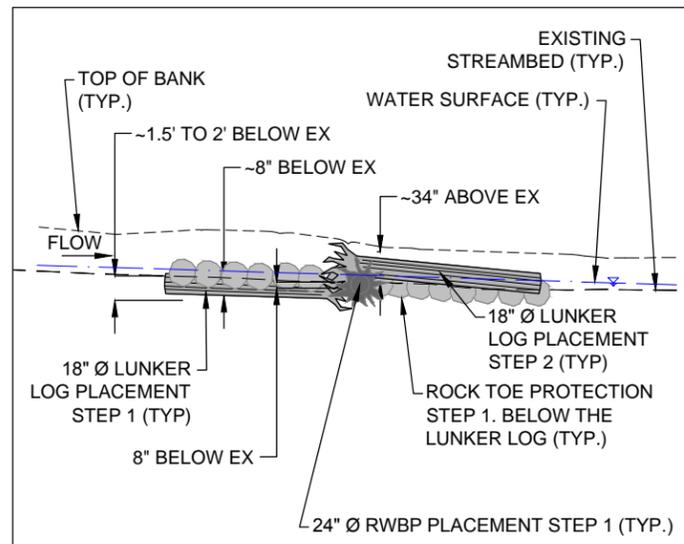
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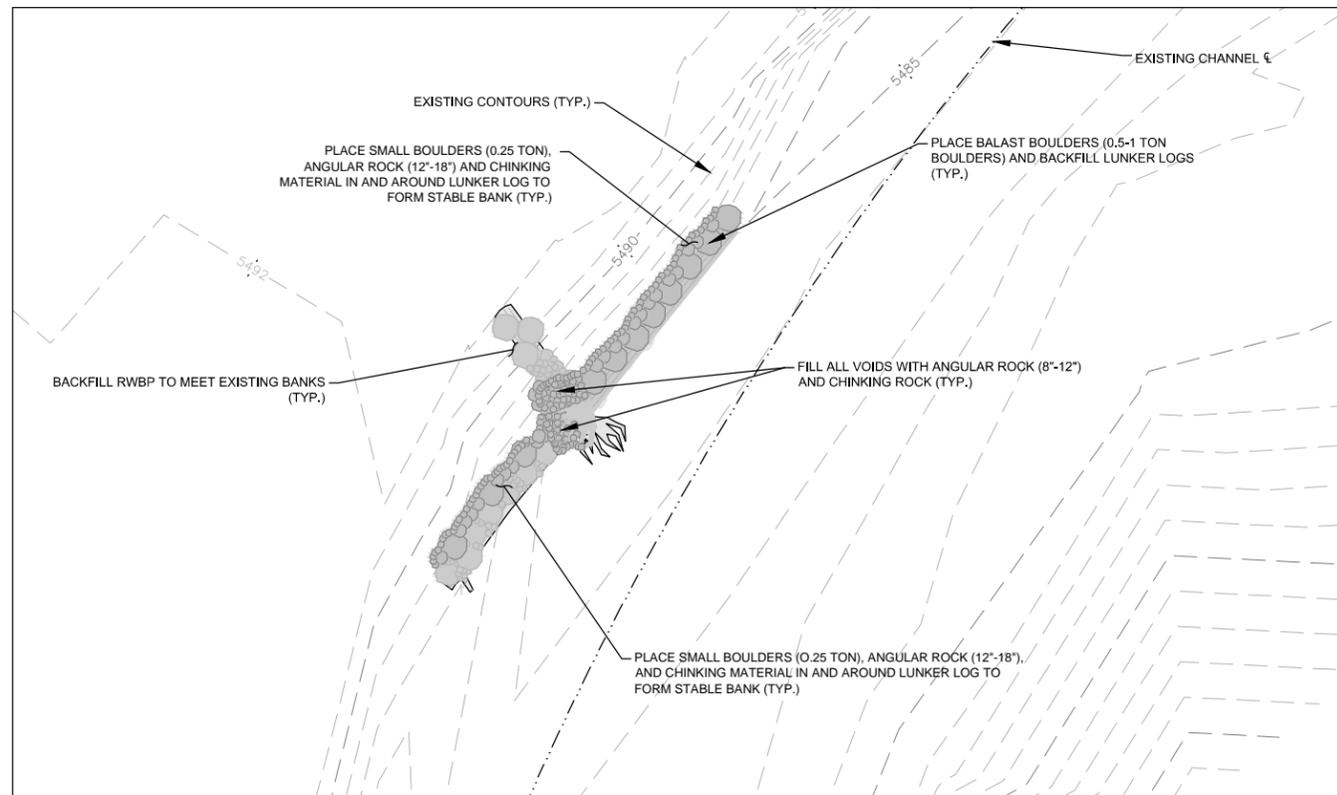
**ROOTWAD AND LUNKER LOG BANK PROTECTION - CONSTRUCTION STEP 1**  
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**ROOTWAD AND LUNKER LOG BANK PROTECTION - CONSTRUCTION STEP 2**  
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**ROOTWAD AND LUNKER LOG BANK PROTECTION - CONSTRUCTION STEP 2 (SECTION A-A')**  
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**ROOTWAD AND LUNKER LOG BANK PROTECTION - CONSTRUCTION STEP 3**  
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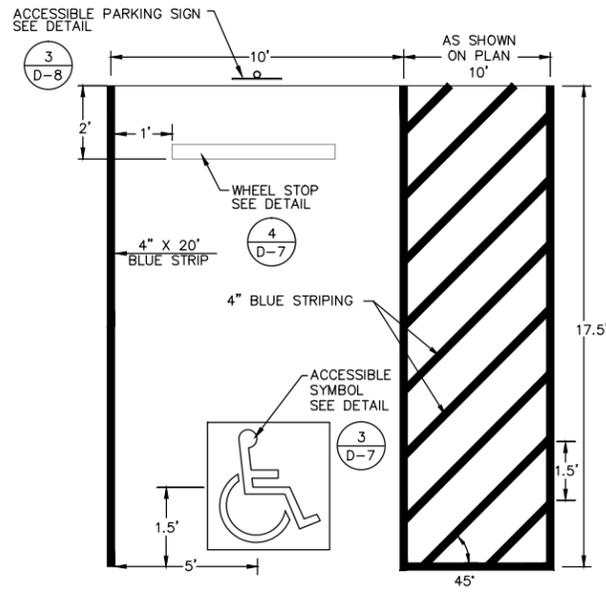
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| DETAIL SHEET | MARKLEEVILLE CREEK RESTORATION |
|              | ALPINE COUNTY, CALIFORNIA      |

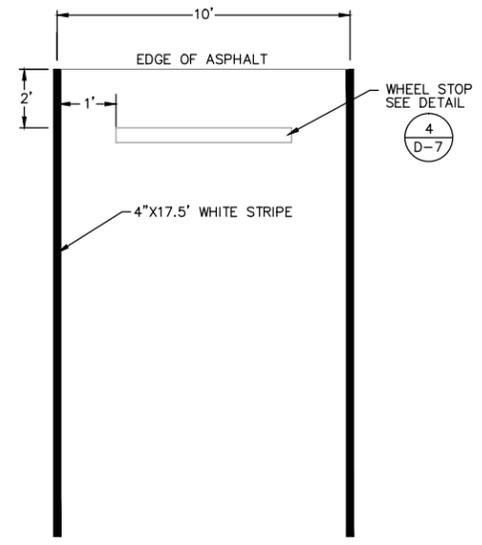
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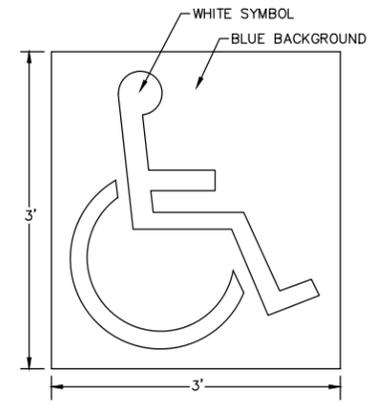
ACCESSIBLE PARKING STALL  
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1  
D-7



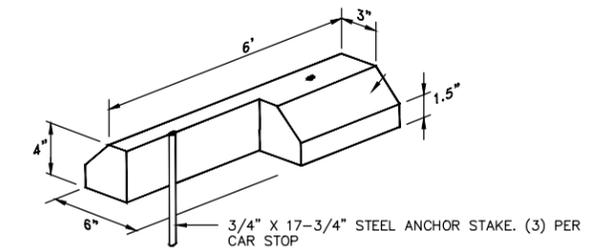
TYPICAL PARKING STALL  
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2  
D-7



ACCESSIBLE SYMBOL  
NTS

3  
D-7



NOTES:

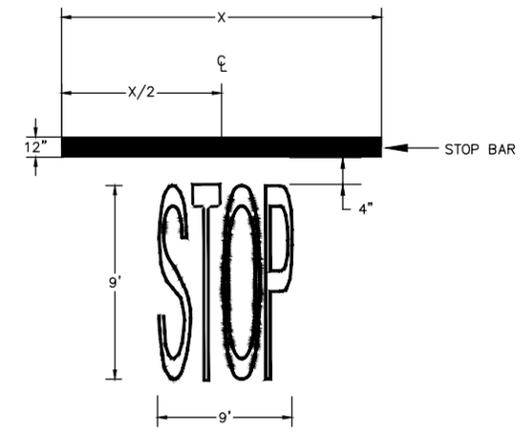
1. THE WHEEL STOPS SHALL BE ANCHORED WITH (3) 3/4" DIA. x 17-3/4" STEEL ANCHOR STAKES MANUFACTURED BY PILOT ROCK, MODEL#: 'ANC10-3 STEEL ANCHOR STAKE SET FOR CAR STOPS' OR APPROVED EQUAL BY THE EDISON REPRESENTATIVE. THE (3) 3/4" DIA. x 17-3/4" STEEL ANCHOR STAKE SET IS NOT INCLUDED WITH THE CAR STOPS AND IS ORDERED SEPARATELY.
2. DRILL 5/8" DIA. HOLE THROUGH THE ASPHALT AT EACH HOLE LOCATION TO AVOID FRACTURING THE ASPHALT WHEN DRIVING IN THE STAKE. USE A HEAVY HAMMER TO POUND THE STAKES INTO THE ASPHALT UNTIL THE HEAD OF THE STAKE IS LEVELED WITH THE TOP OF THE CAR STOP. THE ANCHOR HOLES IN THE CAR STOPS ARE PREDRILLED.

WHEEL STOP  
NTS

4  
D-7

NOTE:

- 1) ALL MARKINGS IN WHITE TRAFFIC PAINT
- 2) "STOP" TRAFFIC MARKING SHALL BE CENTERED ON THE STOP BAR



STOP BAR  
NTS

5  
D-7

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| DATE:   | 3/2014     |
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| FIGURE NO.  | <b>D-7</b> |
| SHEET   | 19 OF 25   |

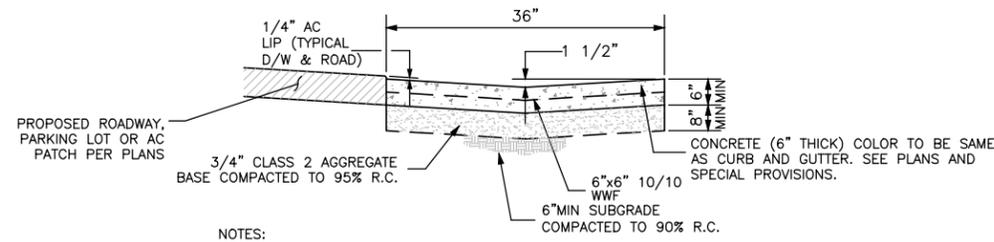
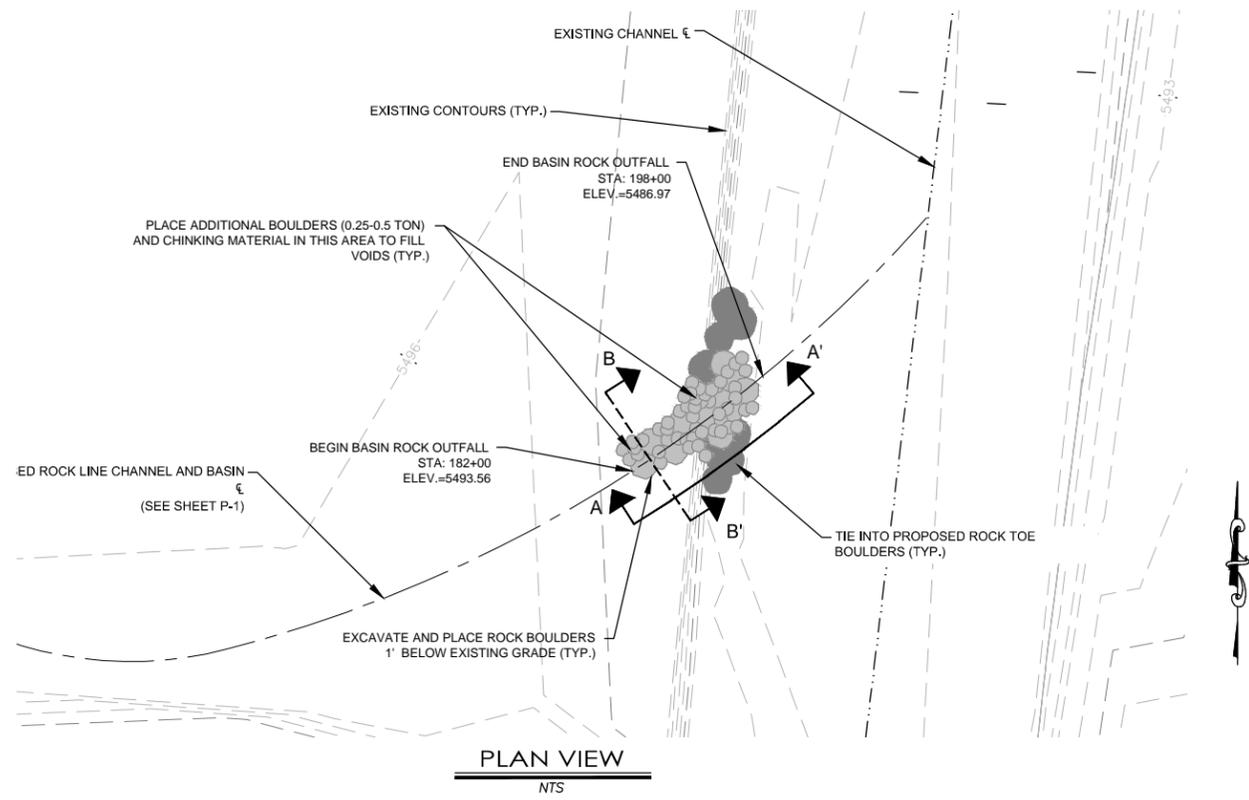
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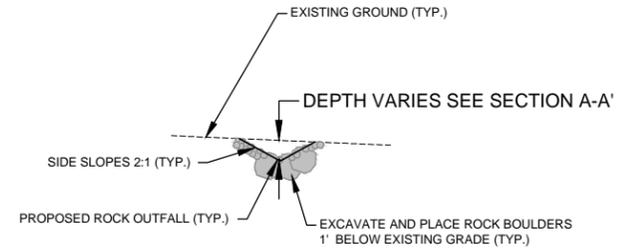
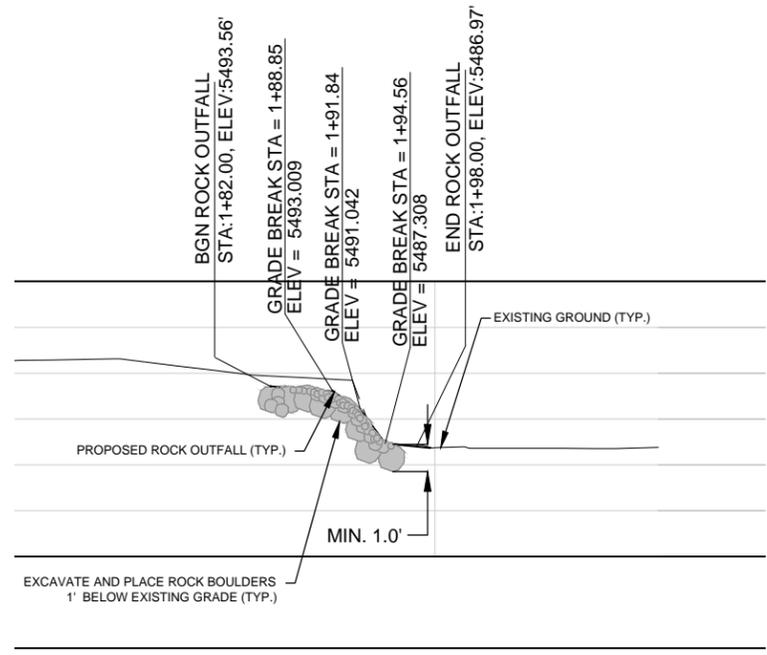




- NOTES:
1. AGGREGATE BASE SHALL BE TYPE 2, CLASS B AND BE COMPACTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
  2. PORTLAND CEMENT CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIAL PROVISIONS AND THE STANDARD SPECIFICATIONS FOR CONCRETE EXPOSED TO FREEZE-THAW ENVIRONMENTS.
  3. VALLEY GUTTER TO BE CONSTRUCTED IN LOCATIONS SHOWN ON THE PLANS AND/OR WHERE DIRECTED BY THE ENGINEER.

**CONCRETE VALLEY GUTTER, 3' WIDE**  
NTS

2  
D-12



**SECTION B-B'**  
NTS

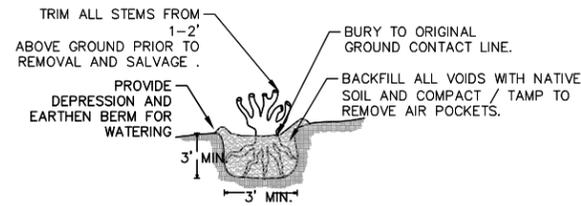
**SECTION A-A'**  
NTS

**ROCK OUTFALL**  
NTS

1  
D-12

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| 295 HWY 50, SUITE 1<br>STATELINE, NV 89449<br>(775) 588-9069 |          |
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| DATE:  | 3/2014   |
| DRAWN BY:  | AM       |
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| ENTRIX JOB NO.   | 33430001 |
| FIGURE NO.   |          |
| <b>D-12</b>  |          |
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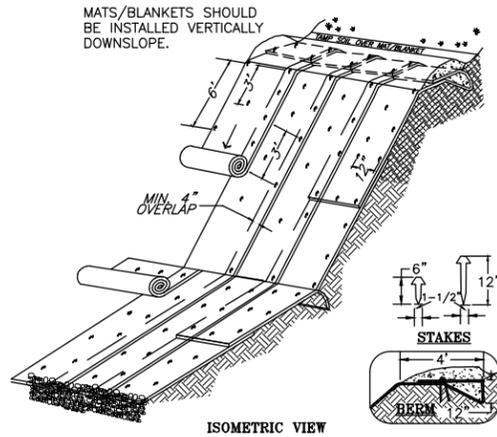


- NOTES:
1. DURING REMOVAL AND SALVAGE OPERATION RETAIN SOIL SURROUNDING ROOT BALL TRIM ROOTS AS NEEDED.
  2. WHEN INSTALLED IN CHANNEL BANK, ROOTWAD SHALL BE SUBSTANTIALLY INUNDATED AT BASEFLOW AND SHALL BE INSTALLED TO FORM POOLS ADJACENT TO IT.

RELOCATE WILLOW/ALDER

1

D-13



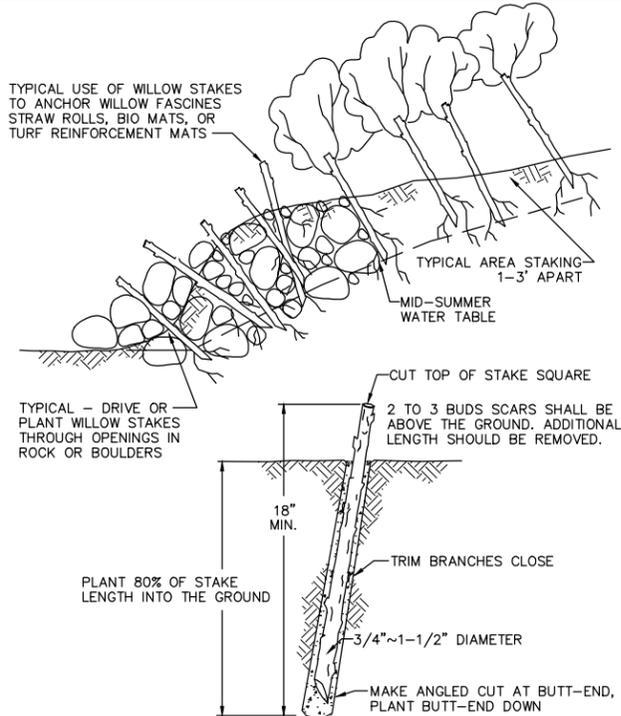
TYPICAL SLOPE SOIL STABILIZATION

- NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
  2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
  3. LAY BLANKETS LOOSELY AND STAKE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

EROSION BLANKETS & MAT SLOPE STABILIZATION

2

D-13

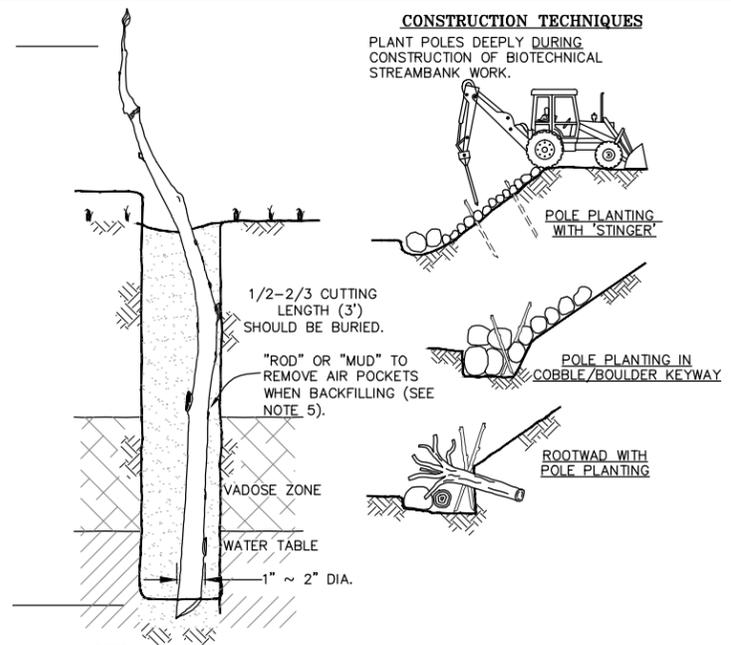


1. HARVEST AND PLANT STAKES DURING THE DORMANT SEASON.
2. USE HEALTHY, STRAIGHT AND LIVE WOOD AT LEAST 1 YEAR OLD.
3. MAKE CLEAN CUTS AND DO NOT DAMAGE STAKES OR SPLIT ENDS DURING INSTALLATION, USE A PILOT BAR IN FIRM SOILS.
4. SOAK CUTTINGS FOR 24 HOURS (MIN.) PRIOR TO INSTALLATION.
5. TAMP THE SOIL AROUND THE STAKE.

LIVE STAKING

3

D-13

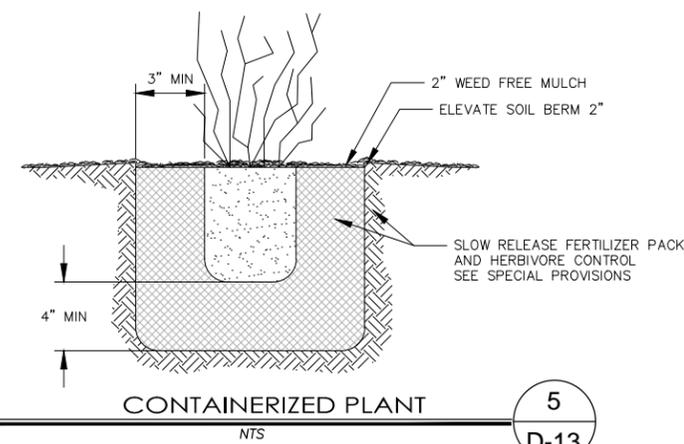


- CONSTRUCTION TECHNIQUES
- PLANT POLES DEEPLY DURING CONSTRUCTION OF BIOTECHNICAL STREAMBANK WORK.
- NOTES:
1. POLE CUTTINGS OF WILLOW ARE LONGER AND HAVE A LARGER DIAMETER THAN BRANCH CUTTINGS OR LIVE STAKES.
  2. POSTS AND POLES MUST BE INSTALLED DURING BIOTECHNICAL STREAMBANK CONSTRUCTION. THEY SHALL NOT BE INSTALLED THROUGH COMPLETED STRUCTURES. SEE THE SPECIFICATIONS FOR MORE INFORMATION REGARDING INSTALLATION PROCEDURES.
  3. POLE CUTTINGS ARE BETTER SUITED FOR HIGHLY ERODIBLE AREAS AND SITES WITH FLUCTUATING WATER LEVELS.
  4. THE POLE CUTTINGS SHOULD EXTEND THROUGH THE VADOSE ZONE AND INTO THE PERMANENT WATER TABLE. AT LEAST 1/2 TO 2/3 OF THE POLE SHOULD BE BELOW THE GROUND, AT LEAST 3 FT, AND LONG ENOUGH TO EMERGE ABOVE ADJACENT VEGETATION.
  5. "MUDDYING" - FILLING THE HOLE WITH WATER AND THEN SOIL TO MAKE A MUD SLURRY FOLLOWED BY ROD TAMPING CAN REMOVE AIR POCKETS.

WILLOW POLE

4

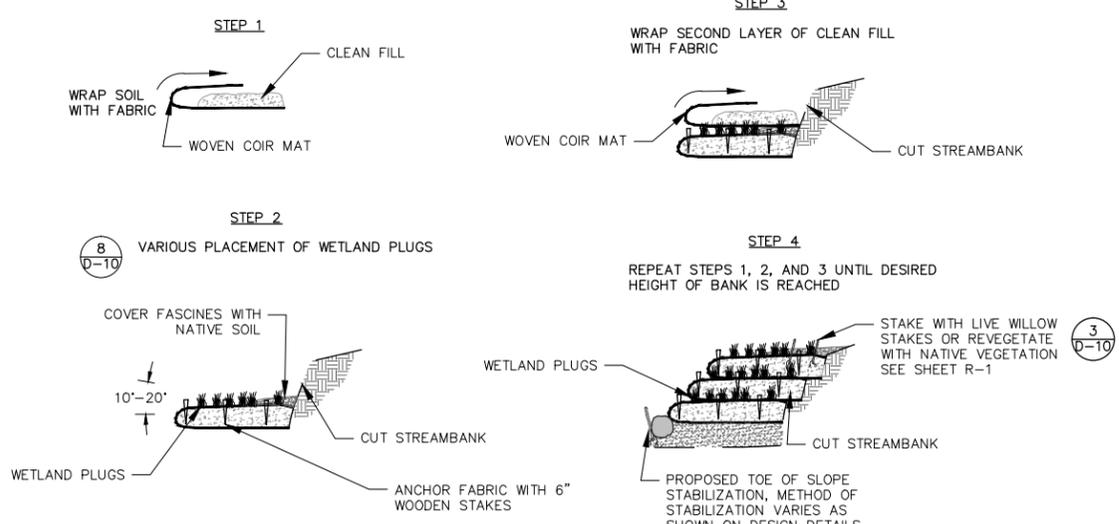
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CONTAINERIZED PLANT

5

D-13

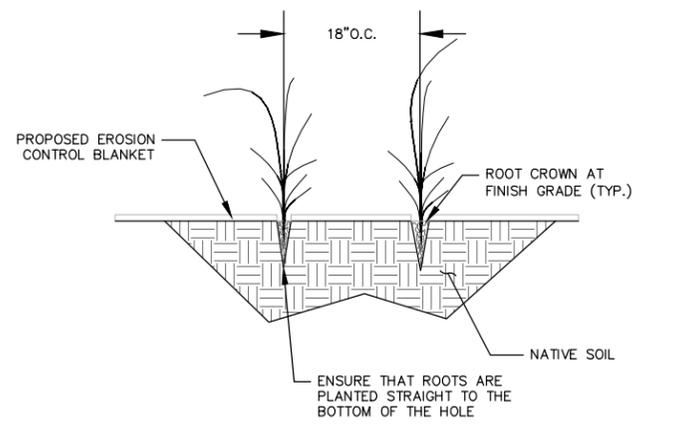


- NOTES:
1. FABRIC TO CREATE SOIL WRAP SHOULD BE 100% WOVEN COIR FABRIC IN 2M X 50M ROLLS WITH AT LEAST A 700 GM WEAVE COUNT.
  2. REFER TO R-1 AND SPECS FOR ADDITIONAL REVEGETATION INFORMATION.
  3. SOIL WRAPS SHALL BE CONSTRUCTED TO ALLOW PLACEMENT OF SOD. SOD SHALL BE PLACED TO MEET FG.
  4. WETLAND PLUGS ARE INCLUDED IN THE UNIT PRICE OF SOIL WRAPS.

SOIL WRAP

6

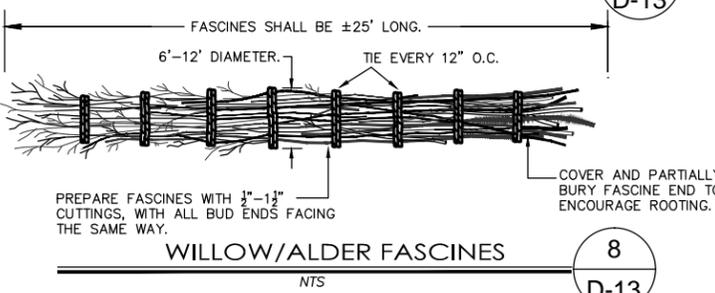
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WETLAND PLUGS PLANTING

7

D-13



WILLOW/ALDER FASCINES

8

D-13

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| ALPINE COUNTY, CALIFORNIA                                    |          |
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| <b>D-13</b>  |          |
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