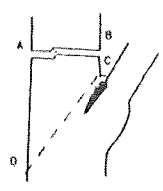


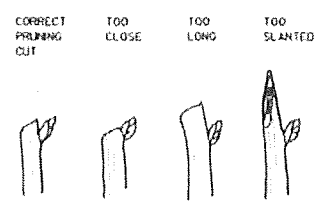
FIRST CUT PART WAY THROUGH THE BRANCH AT POINT A, MAKE A SECOND CUT COMPLETELY THROUGH BRANCH FROM POINT B TO A. MAKE THE FINAL CUT FROM POINT C TO D. IF D IS HARD TO FIND DROP A PLUMB LINE VERTICALLY DOWN TO POINT X. THE ANGLE XCD SHOULD BE APPROXIMATELY EQUAL TO XCE.

- PRUNING NOTES:**
1. LEAVE BRANCH COLLAR (C TO D)
 2. DO NOT FLUSH CUT (C TO X)
 3. DO NOT LEAVE STUBS (B TO A)
 4. BEST TIME TO PRUNE IS LATE DORMANT SEASON OR EARLY SPRING.
 5. PAINT OAK WOUNDS MADE IN APRIL, MAY, OR JUNE.



DROP CROTCH OR CUTTING BACK

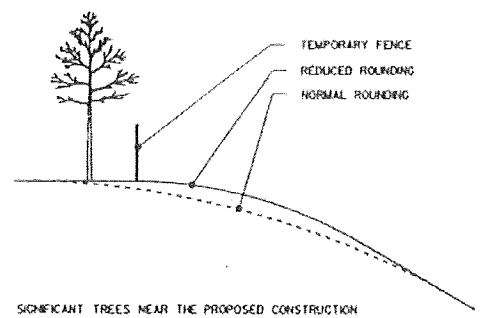
DROP CROTCH PRUNING IS USED FOR REDUCING THE HEIGHT OR LENGTH OF MAIN STEMS OR BRANCHES BY CUTTING BACK TO A LARGE LATERAL BRANCH.



PRUNING SMALL BRANCHES

SMALLER BRANCHES SHOULD BE CUT JUST BEYOND A LATERAL BUD OR ANOTHER SMALL LATERAL BRANCH. THE IDEAL CUT SHOULD BE SHARP AND CLEAN, AND MADE ON A SLIGHT ANGLE.

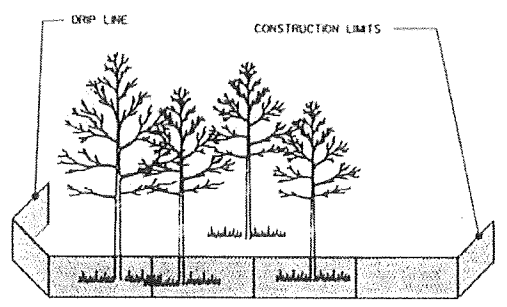
PRUNING DETAILS (Shigo Method)



SIGNIFICANT TREES NEAR THE PROPOSED CONSTRUCTION LIMITS WILL BE IDENTIFIED IN THE PLAN OR BY THE ENGINEER AND PRESERVED BY THE CONTRACTOR.

1. TEMPORARY FENCE SHALL BE PLACED
2. SLOPE ROUNDING SHALL BE REDUCED AS APPROVED BY THE ENGINEER WHERE ROOT ZONES WILL BE DISTURBED BY NORMAL SLOPE ROUNDING.
3. BACK SLOPE STEEPNESS SHALL BE VARIED AS APPROVED BY THE ENGINEER TO AVOID TREE LOSS OR UNNECESSARY ROOT DAMAGE.

SLOPE ROUNDING DETAIL



FURNISH AND INSTALL TEMPORARY FENCE AT THE TREES DRAIN LINE OR CONSTRUCTION LIMITS AS SPECIFIED PRIOR TO ANY CONSTRUCTION. WHEN POSSIBLE PLACE FENCE 25 FEET BEYOND THE DRAIN LINE.

TEMPORARY PROTECTION FENCE PLACEMENT DETAIL

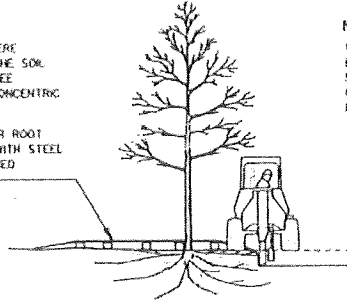
STANDARD VEGETATION PROTECTION DETAILS (C)

DATED MARCH 1, 1993
1 OF 2

NOTE:

REDUCE COMPACTION ON ROOT SYSTEMS WHERE IT OCCURS BY DRILLING 2" DIAM. HOLES IN THE SOIL TO A DEPTH OF 18", BEGIN 3' FROM THE TREE TRUNK AND CONTINUE AT 2' INTERVALS IN CONCENTRIC RINGS OUT TO THE PROTECTION ZONE.

IF CONSTRUCTION VEHICLES MUST PASS OVER ROOT ZONES, CONSTRUCT ROOT SYSTEM BRIDGES WITH STEEL PLATE SUPPORTED ON WOOD TIMBERS PLACED RADIALY TO THE TREE TRUNK.

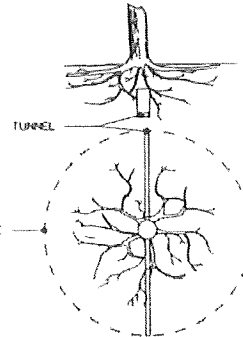


NOTE:

WATERING OF ROOT DAMAGED TREES WILL BE REQUIRED TO MAINTAIN ADEQUATE BUT NOT EXCESSIVE SOIL MOISTURE TO A DEPTH OF 18 INCHES WITHIN THE UNDISTURBED PORTION OF THE IMPACTED TREE DROPLINE.

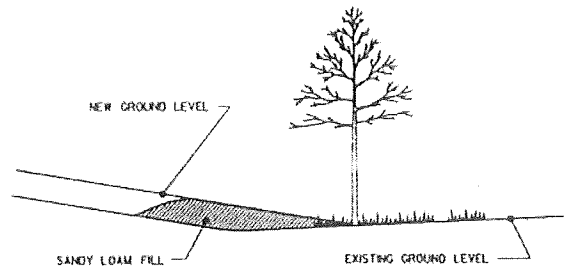
WHEN DESIGNATED IN THE PLAN OR WHEN DIRECTED BY THE ENGINEER, ALL TREE ROOTS AT THE CONSTRUCTION LIMITS SHALL BE CUT CLEANLY (TO THE MAXIMUM DEPTH NECESSARY FOR CONSTRUCTION) WITH A VIBRATORY PLOW OR OTHER APPROVED ROOT CUTTER PRIOR TO ANY EXCAVATION. ROOT ENDS EXPOSED BY EXCAVATION ACTIVITIES SHALL BE IMMEDIATELY COVERED WITH A 6 INCH LAYER OF ADJACENT SOIL, BACKFILL, REGRADE OR INSTALL RETAINING WALL AS DESIGNATED IN THE PLAN OR WHEN DIRECTED BY THE ENGINEER.

TREE PROTECTION ZONE	
TREE DIAMETER AT 4.5' ABOVE GROUND	MINIMUM DISTANCE FROM FACE OF TREE TRUNK (FEET) *
0"-2"	2
3"-4"	4
5"-9"	6
10"-14"	10
15"-19"	12
19" +	15



* WHEN UTILITY INSTALLATIONS MUST OCCUR WITHIN THE TREE PROTECTION ZONE DEFINED ABOVE, THE CONTRACTOR SHALL BORE (TUNNEL) UNDER ROOTS OF TREES THAT ARE TO BE PRESERVED. THE CONTRACTOR SHALL BORE AT A MINIMUM DEPTH OF 24 INCHES BELOW THE GROUND SURFACE WITHIN THIS ZONE.

ROOT PROTECTION AND TRENCHING DETAILS



ANY FILL REQUIRED WITHIN THE DRIP LINE OF TREES SHALL BE A COARSE SAND COMPONENT SANDY LOAM TOPSOIL. EXCESSIVE FILL MAY REQUIRE INSTALLATION OF PERFORATED PIPE WITH AT LEAST ONE DAYLIGHTED END OPENING AS AN AERATION SYSTEM.

SANDY LOAM FILL DETAIL

STANDARD VEGETATION PROTECTION DETAILS (C)

DATED MARCH 1, 1993