

CITY OF NEW HAVEN  
DEPARTMENT OF ENGINEERING

RICHARD H. MILLER, P.E., L.S. 9886  
CITY ENGINEER

DRIVE: K:\ENGINEER\DWG  
FILE: CITYSTD\DETAILS\2009 DETAILS  
DATE: DEC. 1, 2009  
DRAWING NO.:  
**STD-NH-32B**

TREE PROTECTION NOTES:

1. BEFORE BEGINNING ANY SITE REMOVALS OR CONSTRUCTION, TREE PROTECTION FENCING SHALL BE INSTALLED AS SHOWN AND DETAILED ON THE DRAWINGS AND/OR AS DIRECTED IN THE FIELD BY THE ENGINEER. FOLLOWING THE INSTALLATION OF TREE PROTECTION FENCING AND FOR THE ENTIRE CONSTRUCTION PERIOD THE FOLLOWING SHALL APPLY:
  - NO MATERIALS, VEHICLES OR EQUIPMENT MAY BE STORED OR STOCKPILED WITHIN THE AREAS ENCLOSED BY TREE PROTECTION FENCING.
  - NO VEHICLES OR EQUIPMENT MAY BE DRIVEN, OPERATED OR PARKED WITHIN AREAS ENCLOSED BY TREE PROTECTION.
  - AREAS ENCLOSED BY TREE PROTECTION CAN NOT BE USED AS ROUTES FOR SITE TRAFFIC
  - FENCING SHALL BE RESECURED AS NECESSARY AND MAINTAINED TAUT. FENCING SHALL BE REPAIRED OR REPLACED WHEN DAMAGED AT NO ADDITIONAL COST.
  - IN SPECIAL CASES WHERE CONSTRUCTION OPERATIONS ABSOLUTELY REQUIRE SOME TEMPORARY ENCROACHMENT INTO TREE PROTECTION AREAS, THE CONTRACTOR SHALL PRESENT A WORK PLAN FOR TEMPORARY ENCROACHMENT FOR THE ENGINEER'S APPROVAL.
2. ALL EXCAVATION OR TRENCHING WITHIN THE AREAS OF EXISTING TREE ROOTS SHALL BE CARRIED OUT BY HAND.
  - ROOTS IN TRENCH SHALL BE CUT SMOOTH AND CLEAN USING SHARP TOOLS. NO RIPPING OF TREE ROOTS BY MACHINES IS PERMITTED.
  - NO JAGGED EDGES OF ROOTS SHALL BE PERMITTED.
  - SIDES OF EXCAVATIONS SHALL BE CLEAN AND STRAIGHT.
  - IMMEDIATELY FOLLOWING TRENCHING OR EXCAVATION OPERATIONS, AREAS AT TREE ROOTS SHALL BE BACKFILLED.
  - ROOTS SHALL NOT BE LEFT EXPOSED OVERNIGHT.
  - BACKFILL SHALL BE A MIX OF 50% TOPSOIL AND 50% CLEAN SAND.
  - BACKFILL SHALL BE HAND COMPACTED IN PLACE TO FILL ALL VOIDS.
3. EXTREME CARE SHALL BE TAKEN TO AVOID ANY DAMAGE TO TRUNKS, BRANCHES AND ROOTS. ANY DAMAGE CAUSED TO TREES SHALL BE IMMEDIATELY REMEDIED BY THE CONTRACTOR.
  - REMEDIAL WORK MAY INCLUDE PRUNING, WOUND TREATMENT, CABLING OR ADDITIONAL MEASURES AS DETERMINED BY THE ENGINEER.
  - CONTRACTOR SHALL ENGAGE A LICENSED ARBORIST TO PERFORM ALL WORK AT NO ADDITIONAL COST TO THE OWNER.
4. THE CONTRACTOR SHALL REVIEW ALL PLANNED CONSTRUCTION OPERATIONS THAT MAY RESULT IN TREE DAMAGE FOR REVIEW AND APPROVAL BY THE ENGINEER.
  - SPECIAL ATTENTION SHALL BE MADE TO THE PATH OF PLACING CONSTRUCTION MATERIAL ON SITE BY CRANE.
  - THE CONTRACTOR SHALL PRESENT A WORK PLAN AND PROPOSED TREE PROTECTION MEASURES TO MINIMIZE DAMAGE TO TREES.

TREE PROTECTION NOTES

SCALE: NONE