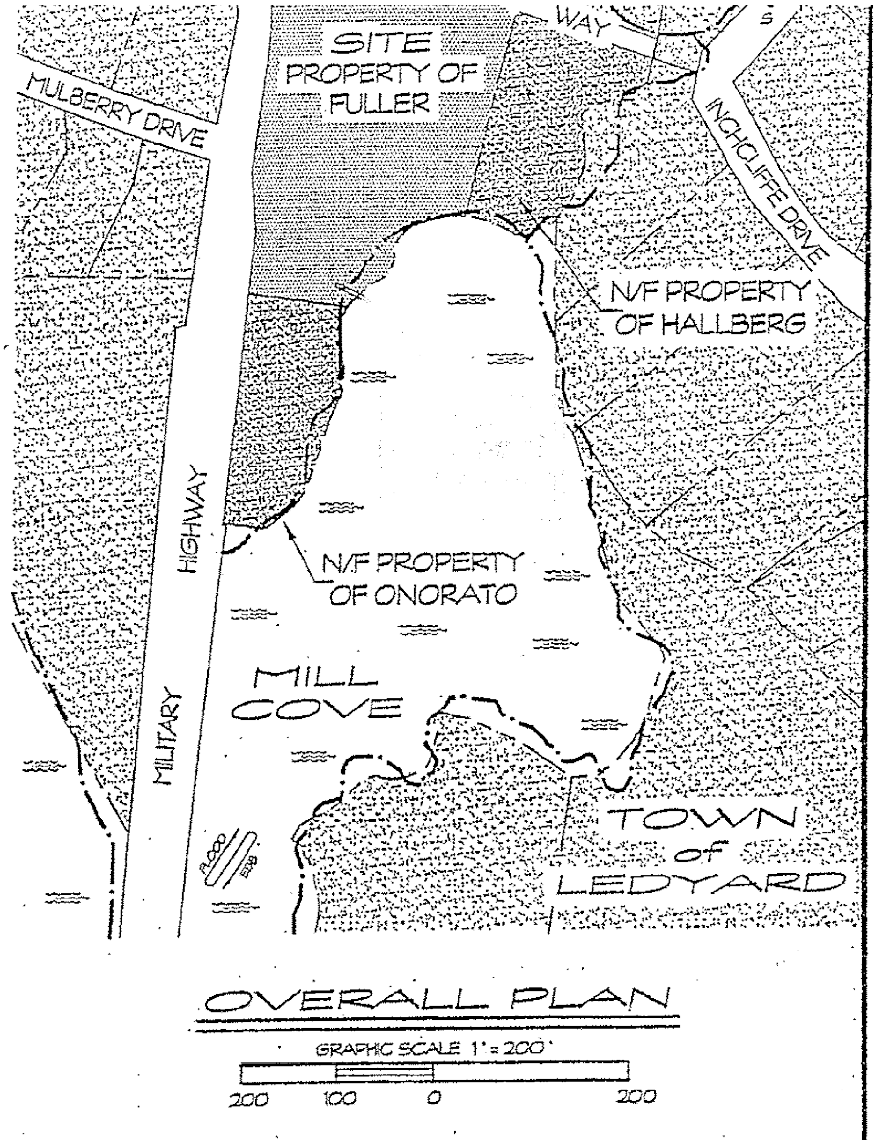
BANK STABILIZATION PLAN
for
JAMES & SANDRA ONORATO

109 MILITARY HIGHWAY
GALES FERRY, CT. 06335

APPLICATION #



OVERALL PLAN

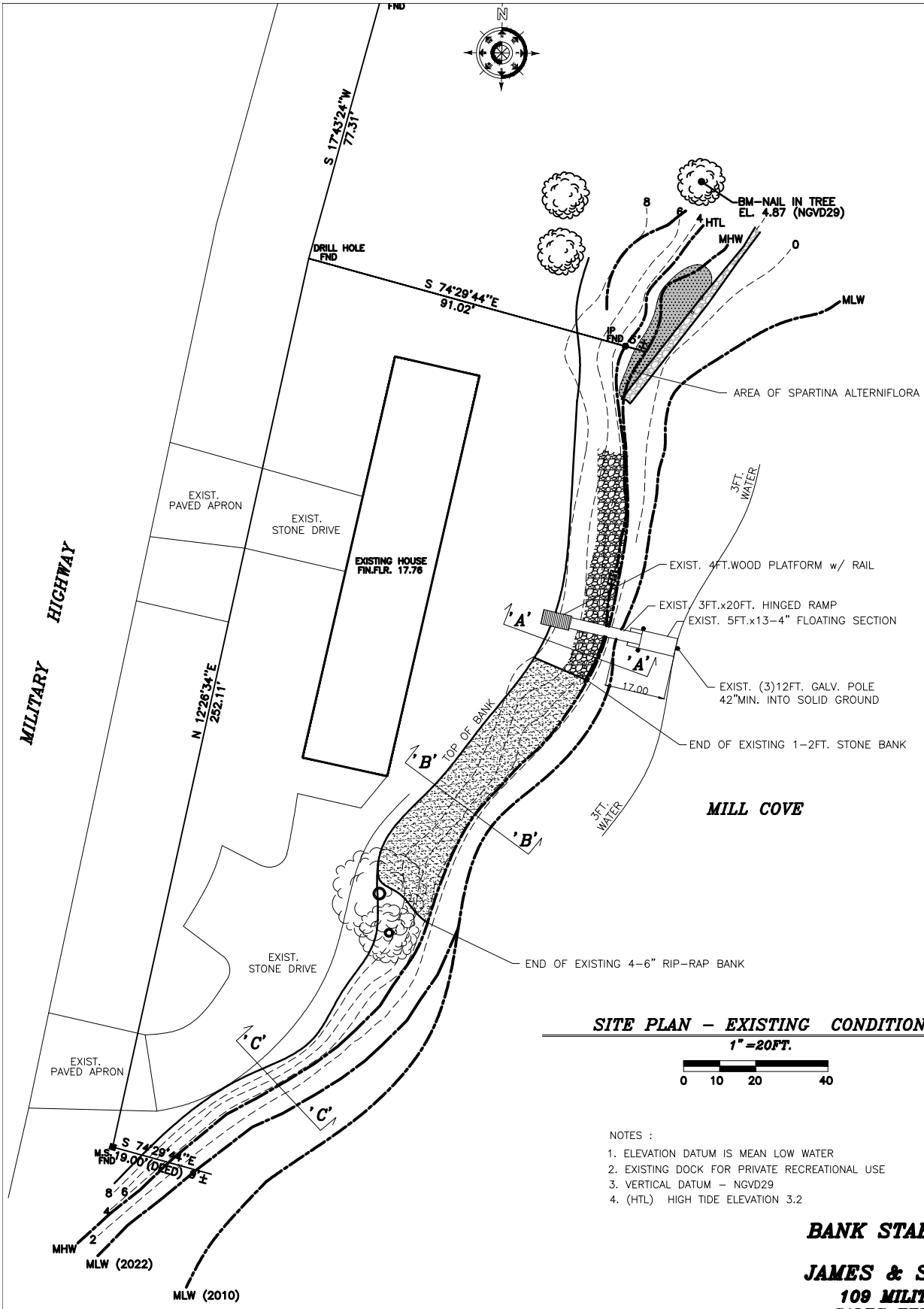
GRAPHIC SCALE 1" = 200'

200 100 0 200

LIST OF DRAWINGS :

SUBMISSION DATE 11-13-2024

1 OF 4	*EXISTING CONDITIONS PLAN*
2 OF 4	*PROPOSED STABILIZATION PLAN*
3 OF 4	*EXISTING & PROPOSED SLOPE CROSS SECTIONS*
4 OF 4	*BIO-ENGINEERED BANK STABILIZATION NOTES*



SITE PLAN - EXISTING CONDITIONS

1" =20FT.

0 10 20 40

NOTES :

1. ELEVATION DATUM IS MEAN LOW WATER
2. EXISTING DOCK FOR PRIVATE RECREATIONAL USE
3. VERTICAL DATUM - NGVD29
4. (HTL) HIGH TIDE ELEVATION 3.2

BANK STABILIZATION PLAN

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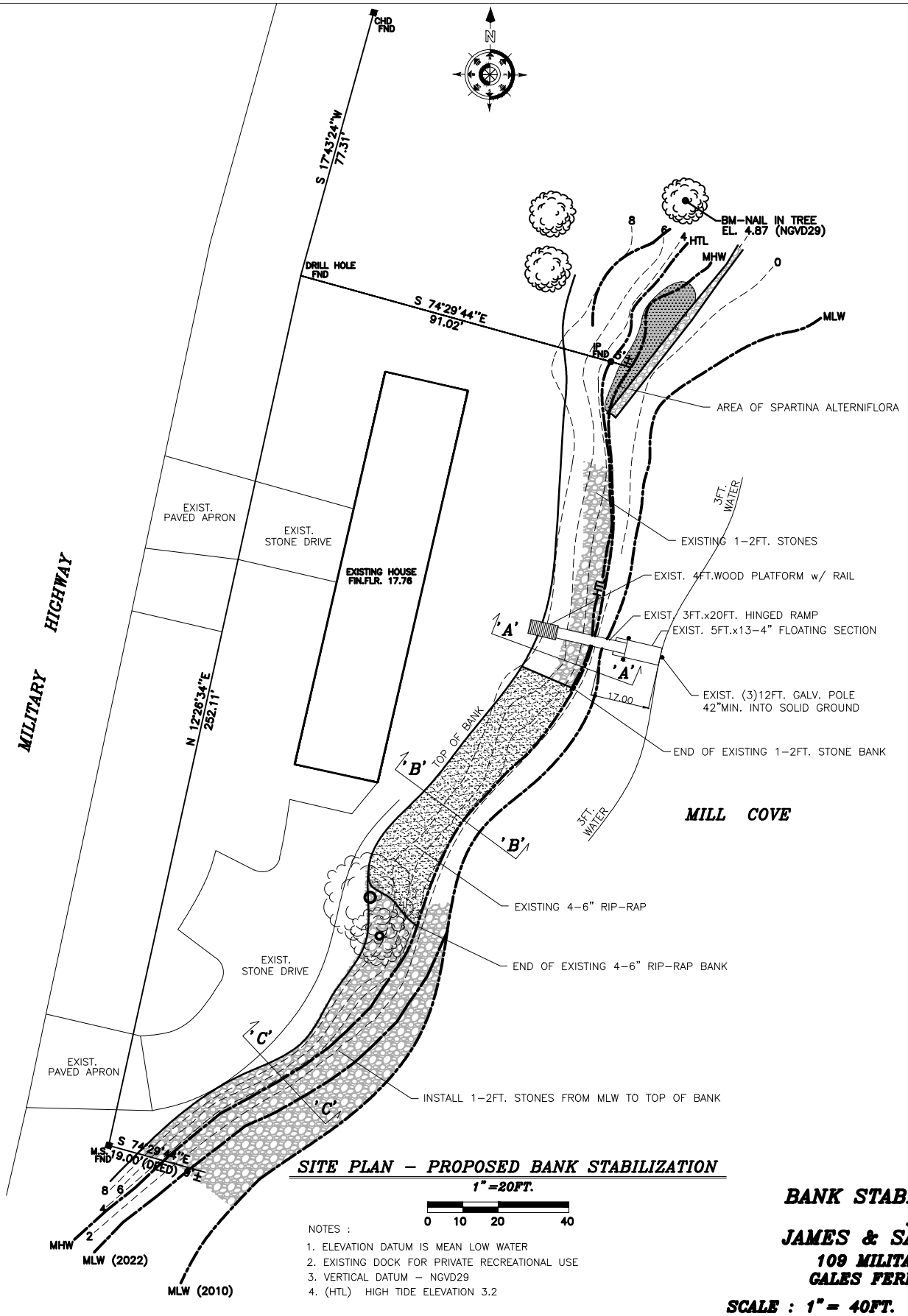
SCALE : 1" = 40FT. **DATE : 11-13-2024**



SITE PLAN – PROPOSED BANK STABILIZATION

1"=20FT.

0 10 20 40

NOTES :

1. ELEVATION DATUM IS MEAN LOW WATER
2. EXISTING DOCK FOR PRIVATE RECREATIONAL USE
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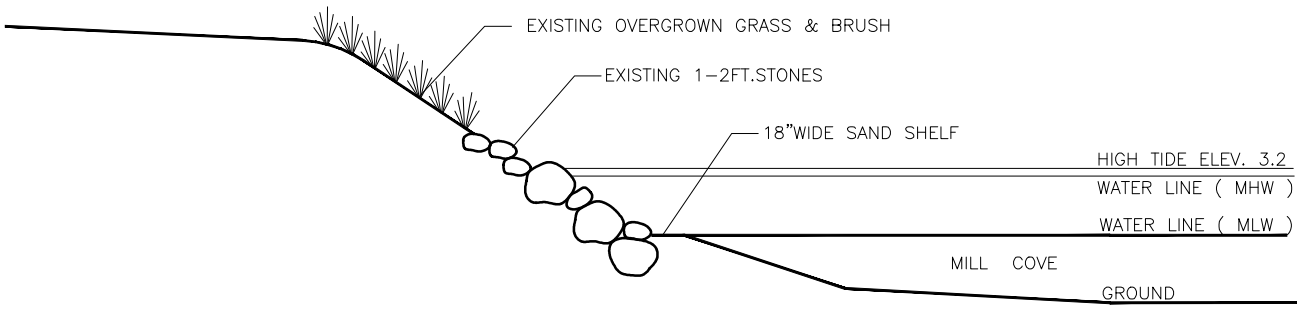
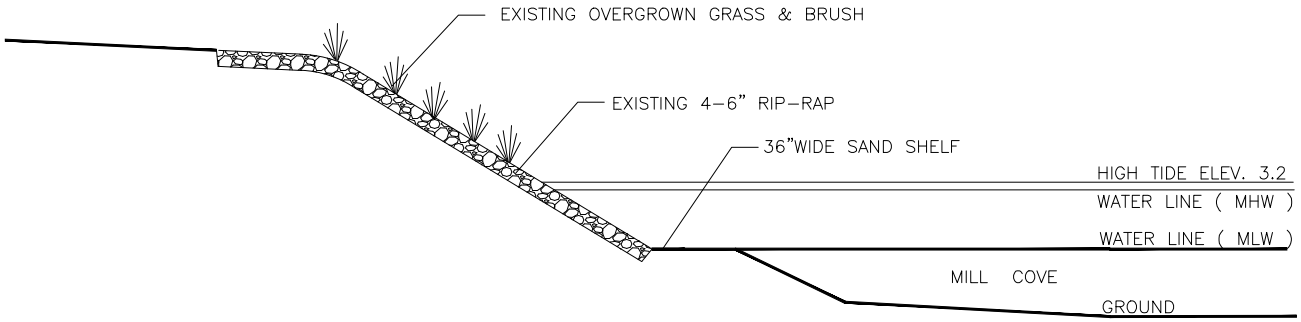
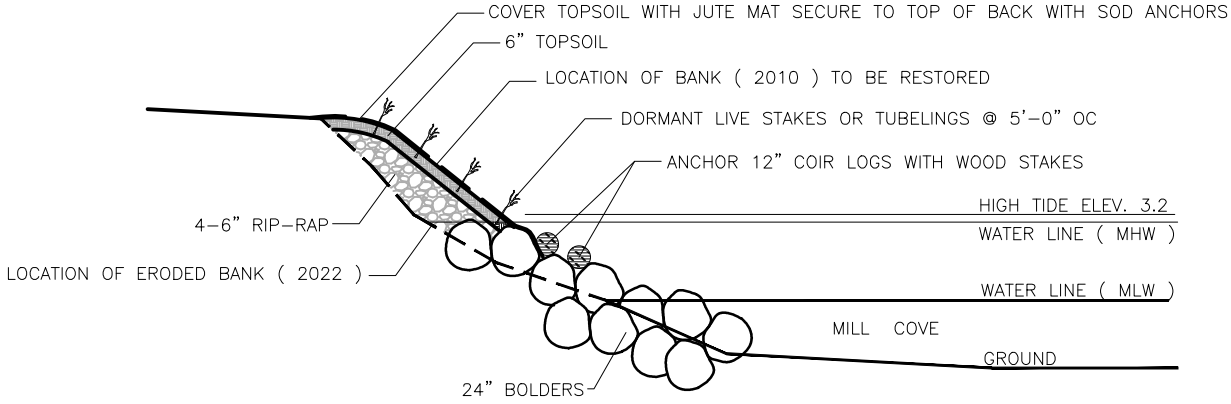


EXISTING SECTION @ STONE BANK "A–A"
1/8"=1'–0"



EXISTING SECTION @ RIP–RAP BANK "B–B"
1/8"=1'–0"



PROPOSED ERODED BANK REPAIR SECTION "C–C"
1/8"=1'–0"

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SCALE : 1/8=1'–0" ***DATE : 11–13–2024***

BIO-ENGINEERED BANK STABILIZATION NOTES :

1. A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE TOWN STAFF, OWNER, INSTALLATION CONTRACTOR AND PROJECT WETLAND SCIENTIST PRIOR TO ANY WORK IN THIS AREA.
2. THE PROJECT WETLAND SCIENTIST AND ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF SEVEN BUSINESS DAYS PRIOR TO ANY PHASE OF THE BANK STABILIZATION, TO MONITOR CONSTRUCTION.
3. SEEDING AND PLANTING OF LIVE STAKES OR TUBELINGS SHALL OCCUR IMMEDIATELY FOLLOWING CONSTRUCTION OF THE NEW RIVER BANK AND INSTALLATION OF THE GEOTEXTILE. LIVE STAKES SHALL BE PURCHASED AND INSTALLED DURING THE DORMANT SEASON, BETWEEN NOVEMBER 15 AND MARCH 15.
4. LIVE STAKES SHALL BE DORMANT LIVE CUT BRANCHES OF WILLOW (Salix spp.) AND DOGWOOD (Cornus spp.) PIRCHASED FROM AN APPROVED SUPPLIER. PLANT MATERIAL SHALL BE DORMANT AND FREE OF SPLITS, ROT, DISEASE AND INSECT INFESTATION.
5. DORMANT LIVE STAKES SHALL BE BETWEEN 0.75 AND 2 INCHES IN DIAMETER AND 3 TO 4 FEET IN LENGTH. SIDE BRANCHES SHALL BE CLEANLY REMOVED. THE BASAL END OF THE CUTTING SHALL BE CLEANLY CUT AT AN ANGLE AND THE TOP SHALL BE SQUARE CUT FLAT.
6. IF LIVE STAKES MUST BE STORED PRIOR TO PLANTING, ONE THIRD OF THE BASAL END SHALL BE SUBMERGED IN COLD WATER.
7. LIVE STAKES SHALL BE SOAKED FOR A MINIMUM OF 24 HOURS AND OPTIMALLY 5 TO 7 DAYS IN COOL AERATED WATER PRIOR TO PLANTING. SOAKING IS MOST EASILY ACCOMPLISHED WITHIN THE RIVER, IN PROXIMITY TO THE PLANTING LOCATION.
8. IN ORDER TO EASE THE INSTALLATION PILOT HOLES SHALL BE CREATED, THROUGH GAPS IN THE GEOTEXTILE. THE HOLES SHALL BE DEEP ENOUGH TO PENETRATE THE UNDERLYING SOIL MEDIUM FOR TWO-THIRDS TO THREE-FOURTHS THE LENGTH OF THE STAKE. IF THE UNDERLYING MEDIUM IS DRY, WATER SHALL BE ADDED TO THE HOLE PRIOR TO INSTALLING.
9. LIVE STAKES SHALL BE INSTALLED BASAL END DOWN, WITH AT LEAST TWO BUDS OR BUD SCARS ABOVE GROUND (GENERALLY 3 TO 6 INCHES EXPOSED). EXPOSURE SHOULD BE MINIMIZED TO PREVENT DESSICATION.
10. TUBELINGS MAY ALSO BE USED IF LIVE STAKES ARE NOT AVAILABLE DUE TO SEASONAL OR OTHER CONSTRAINTS. TUBELINGS SHALL BE 5" DEEP PLUGS, 8-24" IN HEIGHT. (Salix spp. OR Cornus spp.)
11. THE PROJECT WETLAND SCIENTIST SHALL BE PRESENT DURING INSTALLATION TO MONITOR CONSTRUCTION.
12. THE CONTRACTOR SHALL IRRIGATE THE SEED MIX AND LIVE STAKES/TUBELINGS PER SUPPLIERS RECOMMENDATION.
13. THE PROJECT WETLAND SCIENTIST SHALL INSPECT THE PLANTINGS WEEKLY FOR THE FIRST MONTH AFTER INSTALLATION. REMEDIAL ACTIONS SHALL BE IMPLEMENTED AS REQUIRED BY THE WETLAND SCIENTIST.
14. THE PROJECT WETLAND SCIENTIST SHALL INSPECT THE PLANTINGS TWICE A YEAR FOR TWO COMPLETE GROWING SEASONS AFTER INSTALLATION. REMEDIAL ACTIONS SHALL BE IMPLEMENTED AS REQUIRED BY THE WETLAND SCIENTIST.
15. THE OWNER SHALL EMPLOY A PROJECT WETLAND SCIENTIST TO OBSERVE AND MONITOR THE WORK.
16. THE CERTIFIED RESTORATION OVERSIGHT PROFESSIONAL SHALL HAVE A MINIMUM OF FIVE YEARS OF EXPERIENCE DIRECTLY OVERSEEING SUCCESSFUL ECOLOGICAL STREAMBANK RESTORATION PROJECTS OF A SIMILAR NATURE, AND SHALL BE CERTIFIED AS A PROFESSIONAL WETLAND SCIENTIST BY THE SOCIETY OF WETLANDS SCIENTIST AND/OR A CERTIFIED ECOLOGICAL RESTORATION PRACTITIONER BY THE SOCIETY OF ECOLOGICAL RESTORATION.

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