NOTES

1. THE GOAL OF THIS PROJECT IS HABITAT CREATION AND RESTORATION.
   - PRESERVE EXISTING VEGETATION, AS SHOWN
   - AVOID UNNECESSARY SOIL CONSTRUCTION
   - BUILD FEATURES IN NATURAL, CURVED LINES AS SHOWN ON PLANS

2. REMOVAL OF VEGETATION AND VEGETATION SHALL NOT EXCEED THE MINIMUM REQUIRED TO COMPLETE THE PROJECT TO THE LINES AND GRADES SHOWN ON THE DRAWINGS.

3. MOST STRUCTURES, FOUNDATIONS, AND KNOWN UTILITIES ON SITE WILL BE DEMOLISHED BY OTHERS BEFORE CONSTRUCTION BEGINS.

4. A SIGNED SET OF WORKING PLANS AND SPECIFICATIONS SHALL BE KEPT AT THE JOB SITE AT ALL TIMES ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK ARE TO BE RECORDED AND/OR CORRECTED DAILY AND SUBMITTED TO THE OWNER AT THE COMPLETION OF WORK. ALL CHANGES TO BE APPROVED BY THE ENGINEER.

UTILITIES

1. THE CONTRACTOR SHALL MAKE ITS OWN ASSESSMENT REGARDING THE PRESENCE OF EXISTING UTILITIES AND VERIFY ALL UTILITY INFORMATION AS REQUIRED BY LAW.

2. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA), 1-800-227-2600 OR 811, A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

EROSION AND SEDIMENT CONTROL

1. ALL GRADING SHALL COMPLY WITH TITLE 30.63A AND 30.63B OF THE SNOHOMISH COUNTY UNIFIED DEVELOPMENT CODE.


3. FIELD MARKING: BEFORE PERFORMING ANY SITE DISTURBING ACTIVITY INCLUDING CLEARING OR GRAZING, THE CLEARING LIMITS SHALL BE LOCATED AND STAKED BY THE PROJECT SURVEYOR, OR AS DIRECTED BY THE ENGINEER.

4. THE TEMPORARY EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE PLANS AND AS DIRECTED BY THE ENGINEER. IN NO EVENT SHALL SEDIMENT LOAD RUNOFF CAUSE A VIOLATION OF TURBIDITY OR ANY OTHER STATE WATER QUALITY STANDARD.

5. CLEANING, GRADING AND DE-VEGETATION ACTIVITIES SHALL BE TIMED TO MINIMIZE EXPOSED GROUND.

6. SOIL STABILIZATION: DURING THE DRY SEASON (APRIL 1 TO SEPTEMBER 30), NO SOILS SHALL BE EXPOSED FOR MORE THAN SEVEN DAYS. DURING THE WET SEASON (OCTOBER 1 THROUGH MARCH 31), NO SOILS SHALL BE EXPOSED FOR MORE THAN 30 DAYS. IF EXPOSED, SOILS MUST REMAIN UNRECOVERED FOR MORE THAN THE NUMBER OF DAYS LISTED, THEY SHALL BE STABILIZED BY SUITABLE APPLICATION OF SOIL STABILIZATION BMPS, SUCH AS SEEDING, FERTILIZING, AND MULCHING. DURING THE WET SEASON, SEEN D SOILS SHOULD BE COVERED WITH CLEAR PLASTIC TO FACILITATE NEW GRASS GROWTH.

7. PROTECTION OF ADJACENT PROPERTIES: PROPERTIES ADJACENT TO THE PROJECT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION.

8. CONTROL OF OFF-SITE EROSION: PROPERTIES AND WATERWAYS DOWNTREAM FROM THE PROJECT SITE SHALL BE PROTECTED FROM EROSION DUE TO INCREASES IN THE CONCENTRATION, VOLUME, VELOCITY, AND/FOR PEAK FLOW RATE OF STORMWATER RUNOFROM THE PROJECT SITE.

9. MAINTENANCE: ALL EROSION AND SEDIMENT CONTROL FACILITIES AND PRACTICES SHALL BE INSPECTED ON A REGULAR BASIS AND SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. INSPECTION AND MAINTENANCE SHALL BE PERFORMED A MINIMUM OF ONCE A WEEK, IMMEDIATELY FOLLOWING A MAJOR STORM EVENT, AT LEAST ONCE DURING PROLONGED RAINFALL.

10. FOR ALL TEMPORARY OR PERMANENT SEEDING, THE CONTRACTOR SHALL PROVIDE SUFFICIENT IRRIGATION TO ASSURE THE GROWTH AND VITALITY OF THE SEEDED AREAS.

11. ALL STORM DRAIN INLETS MAKE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT STORMWATER RUNOFF SHALL NOT ENTER THE CONDUIT SYSTEM WITH FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT

12. EXPOSED AREAS AND SLOPES SHALL BE PROTECTED FROM EROSION AND CONCENTRATED FLOW UNTIL PERMANENT SOD, FERTILIZING, AND MULCHING ARE IN PLACE.

13. SOIL STABILIZATION: DURING THE DRY SEASON (APRIL 1 TO SEPTEMBER 30), NO SOILS SHALL BE EXPOSED FOR MORE THAN SEVEN DAYS. DURING THE WET SEASON (OCTOBER 1 THROUGH MARCH 31), NO SOILS SHALL BE EXPOSED FOR MORE THAN 30 DAYS. IF EXPOSED, SOILS MUST REMAIN UNRECOVERED FOR MORE THAN THE NUMBER OF DAYS LISTED, THEY SHALL BE STABILIZED BY SUITABLE APPLICATION OF SOIL STABILIZATION BMPS, SUCH AS SEEDING, FERTILIZING, AND MULCHING. DURING THE WET SEASON, SEEN D SOILS SHOULD BE COVERED WITH CLEAR PLASTIC TO FACILITATE NEW GRASS GROWTH.

14. THE TESC FACILITIES SHOWN ON THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIODS, THESE TESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT EROSION AND SEDIMENT LOAD DOES NOT LEAVE THE SITE.

15. THE TESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS AFTER A MAJOR STORM EVENT.

16. ROADS AND OTHER PAVED AREAS SHALL BE MAINTAINED TO BE FREE AND CLEAR OF TRACKED SEDIMENT. ADDITIONAL MEASURES, SUCH AS STREET SWEEPING, MAY BE REQUIRED.

17. REMOVAL OF TESC MEASURES: THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL BMPS AND ACCUMULATED SEDIMENT WITHIN 30 DAYS AFTER FINAL SITE DRAINAGE SYSTEM IS IN PLACE.

18. THE CONTRACTOR SHALL SUBMIT A SPILL PREVENTION, CONTROL, AND COUNTERMEASURES PLAN (SPCC) FOR APPROVAL. WASTES GENERATED FROM THE PROJECT SHALL BE DISPOSED OF IN AN APPROVED MANNER.

19. THE GOAL OF THIS PROJECT IS HABITAT CREATION AND RESTORATION.
NOTES

1. EXISTING TOPOGRAPHY IS BASED ON GROUND SURVEYS CONDUCTED BY DAVID EVANS AND ASSOCIATES (DEA) IN SUMMER 2018. CONTOURS ARE APPROXIMATE BASED ON GROUND SURVEY TRANSECTS AND SPOT ELEVATIONS.

2. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) FEET.

3. THE COORDINATE GRID IS BASED ON LOCAL BENCHMARKS AND CONTROL. SEE PROJECT BENCHMARKS ON SHEET GEO.

4. THE EXISTING GRADE REFLECTS SITE CONDITIONS AT THE TIME OF THE SURVEYS. CONTRACTOR SHALL VERIFY GRADES AND EXISTING CONDITIONS AND FEATURES THAT MAY AFFECT THE WORK PRIOR TO COMMENCING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

5. EDGE OF VEGETATION REPRESENTS LIMITS OF FOREST CANOPY AS DIGITIZED FROM AERIAL IMAGERY. TREES ARE NOT SHOWN TO SCALE.

6. NO LOCATION POINT WAS COLLECTED FOR TREE NO. 39.

SIGNIFICANT TREE TABLE

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NOT FOR CONSTRUCTION
SECTION 34, T27N, R5E, W.M.

LOW IMPACT ROUTE

1. PRIOR TO CONSTRUCTION, THE LIMITS OF WORK FOR CONSTRUCTION, ACCESS AND STAGING WILL BE CLEARLY DELINEATED IN THE FIELD WITH TEMPORARY CONSTRUCTION FENCING TO ENSURE THAT ALL PROJECT ACTIVITIES ARE RESTRICTED TO AUTHORIZED AREAS.

2. THE CONTRACTOR SHALL AVOID OPERATING EQUIPMENT IN WETLANDS OUTSIDE OF THE GRADING LIMITS.

3. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN FOR REVIEW BY THE ENGINEER. ALL TRAFFIC CONTROL REQUIRED FOR CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE WASHINGTON MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE TRAFFIC CONTROL PLAN MUST ALSO MEET THE REQUIREMENTS OF THE SNOHOMISH COUNTY DEPARTMENT OF PUBLIC WORKS.

4. SOUTH BANK ACCESS TO BE DEFINED IN FIELD BY RESTORATION ENGINEER.

5. SITE ACCESS WILL BE FROM 58TH AVE SE ON THE EAST SIDE OF THE SITE, AND 238TH ST SE ON THE NORTH SIDE OF THE SITE. THE CONTRACTOR SHALL COORDINATE ALL SITE ACCESS AND STAGING WITH THE ENGINEER.

6. DEFINED LOW GROUND PRESSURE ACCESS ROUTES SHALL BE FOLLOWED THROUGH WETLANDS AND OTHER SENSITIVE AREAS. ROUTES GENERALLY FOLLOW PROPOSED GRADING FEATURES TO MINIMIZE THE FOOTPRINT OF TEMPORARY IMPACTS.

7. NO WORK SHALL OCCUR ON THE STREET SIDE OF THE FENCE ALONG 58TH AVE SE OR 238TH ST.

NOT FOR CONSTRUCTION

PROJECT LIMITS - PROPERTY MUNDARY

SITE ACCESS WILL BE FROM 58TH AVE SE ON THE EAST SIDE OF THE SITE, AND 238TH ST SE ON THE NORTH SIDE OF THE SITE. THE CONTRACTOR SHALL COORDINATE ALL SITE ACCESS AND STAGING WITH THE ENGINEER.

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NO WORK SHALL OCCUR ON THE STREET SIDE OF THE FENCE ALONG 58TH AVE SE OR 238TH ST.
SECTION 34, T27N, R5E, W.M.

NOT FOR CONSTRUCTION

LEGEND

- GRADING LIMIT POINTS

PROJECT LIMITS/PROPERTY BOUNDARY

FILL/PLACEMENT AREA

VERT. DATUM:

HORZ. DATUM:

EASTING

NORTHING

POINT NUMBER

MAIN GRADING AREA

MAIN GRADING AREA

MAIN GRADING AREA

GRADING LAYOUT

SNOHOMISH COUNTY DEPARTMENT OF PUBLIC WORKS

LITTLE BEAR CREEK ADVANCED MITIGATION SITE

SNOHOMISH COUNTY BRIDGE #21

PROPRIETARY

960 LORAINE

0001-2600

FUNDING NO.

REVIEWED AND APPROVED FOR CONSTRUCTION

SNOHOMISH COUNTY ENGINEER

LITTLE BEAR CREEK

ADVANCED MITIGATION SITE

DATE APPROVED

DRAWN BY

DESIGNED BY

69TH AVE NE

DRAWN BY:

DESIGNED BY:

238TH ST SE

DRAWN BY:

DESIGNED BY:

ADVANCED MITIGATION SITE

NOT FOR CONSTRUCTION

- STREAM NOT SURVEYED AT DOWNSTREAM END

- SURVEYED AT UPSTREAM END

- DOWNSTREAM END

- UPSTREAM END

FLOOD PLAN BENCH

PROPERTY BOUNDARY

GRADING LIMIT POINTS

FILL/PLACEMENT AREA

VERT. DATUM:

HORZ. DATUM:

EASTING

NORTHING

POINT NUMBER

FILL/PLACEMENT AREA

VERT. DATUM:

HORZ. DATUM:

EASTING

NORTHING

POINT NUMBER

FILL/PLACEMENT AREA

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NORTHING

POINT NUMBER

FILL/PLACEMENT AREA

VERT. DATUM:

HORZ. DATUM:

EASTING

NORTHING

POINT NUMBER
1. REMOVE ALL INVASIVE SPECIES FROM THE RESTORATION AREA PRIOR TO INSTALLATION USING METHODS APPROVED BY THE STATE OF WASHINGTON NOXIOUS WEED CONTROL BOARD. SPECIFIC SPECIES TO BE REMOVED INCLUDE:
   A. KNOTWEED (POLYGONUM SPP.)
   B. HIMALAYAN BLACKBERRY (RUBUS ARMINIACUS)
   C. REED CANARYGRASS (PHALARIS ARUNDINACEA)
   D. CANADA THISTLE (CIRSIUM ARVENSE)
   E. BAMBOO (BAMBUSA SPP.)
   F. TANSY RAGWORT (SENECIO JACOBAEA)
   G. ENGLISH IVY (HEDERA HELIX)

2. LOCATIONS OF INVASIVES ON THIS PLAN ARE APPROXIMATE.
SECTION 34, T27N, R5E, W.M.

STREAM DIVERSION NOTES

ALL WORK BELOW THE GROSS ELEVATION OF LITTLE BEAR CREEK AND STREAMS 1 AND 4 SHALL BE PERFORMED DURING THE IN-WATER WORK PERIOD SPECIFIED BY PERMIT.

1. SEE SHT 003 FOR GENERAL EROSION CONTROL NOTES.

2. CLEARING LIMITS SHALL BE AS SHOWN ON SHT 003.

3. STREAMS 1 AND 4 ARE NON-FISH-BEARING PERENNIAL STREAMS AND WILL REQUIRE GRAVITY FLOW DIVERSION DURING CONSTRUCTION. ANTICIPATED FLOWS ARE < 1 CFS.

4. HIGH VISIBILITY FENCING AND OTHER EROSION CONTROL MEASURES MAY BE ADJUSTED TO ACCOMMODATE CONSTRUCTION.

TYPICAL TESC CONSTRUCTION SEQUENCE

1. PRE-CONSTRUCTION CONFERENCE. CONTRACTOR UPDATES SWPPP. TESC PLAN AND/OR SPCC PLAN, AS NEEDED.

2. SWPPP, TESC PLAN AND SPCC PLAN APPROVED BY ENGINEER.

3. FLAG OR FENCE CLEARING LIMITS.

4. INSTALL PERIMETER PROTECTION (SILT OR HIGH VISIBILITY FENCE, ETC.)

5. INSTALL OR PROVIDE MEASURES TO PREVENT TRANSPORT OF SEDIMENT (MUD) INTO ROADWAYS.

6. STABILIZE ALL DISTURBED AREAS THAT WILL REMAIN UNUSED FOR MORE THAN 7 DAYS (FULLY THROUGH SEP 30) OR NO MORE THAN 2 DAYS (OCT 1 THROUGH MAR 31).

ESC NOTES

- INSTALL HIGH VISIBILITY SILT FENCE PER WSDOT STANDARD PLAN 130.17.00
- INSTALL HIGH VISIBILITY FENCE PER WSDOT STANDARD PLAN 110.10.01
- INSTALL STABILIZED CONSTRUCTION ENSURE PERFORMANCE PER WSDOT STANDARD PLAN 180.10.02
- INSTALL COMPOST SOCKS PER WSDOT STANDARD PLAN 120.40.01.

GENERAL NOTES

1. SEE SHT 003 FOR GENERAL EROSION CONTROL NOTES.

2. CLEARING LIMITS SHALL BE AS SHOWN ON SHT 003.

3. STREAMS 1 AND 4 ARE NON-FISH-BEARING PERENNIAL STREAMS AND WILL REQUIRE GRAVITY FLOW DIVERSION DURING CONSTRUCTION. ANTICIPATED FLOWS ARE < 1 CFS.

4. HIGH VISIBILITY FENCING AND OTHER EROSION CONTROL MEASURES MAY BE ADJUSTED TO ACCOMMODATE CONSTRUCTION.
NOTES:
1. HIGH VISIBILITY FENCE SHALL BE PLACED AT THE DRIPLINE OF THE TREE TO BE SAVED. FENCE SHALL COMpletely ENCIRCLe THE TREE. INSTALL FENCE POSTS USING PIER BLOCKS ONLY. AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
2. WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY. NO STOckPILE OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMIT OF THE FENCING.

3. FOR ROOTS OVER 1-INCH DIAMETER THAT ARE DAMAGED DURING CONSTRUCTION, MAKE A CLEAN, STRAIGHT CUT TO REMOVE THE DAMAGED PORTION. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING AND SHALL BE COVERED WITH SOIL AS SOON AS POSSIBLE.
SECTION 34, T27N, R5E, W.M.

NOTES

1. EXCAVATED MATERIAL SHALL BE PLACED PER GRADING PLANS. SUITABLE ORGANIC SOILS MAY BE REUSED ON SITE, AS DIRECTED BY THE ENGINEER. SANDY AND ORGANIC SOILS MAY BE PLACED IN THE FILL PLACEMENT ZONES. EXCESS MATERIAL AND MATERIAL NOT SUITABLE FOR REUSE SHALL BECOME PROPERTY OF THE CONTRACTOR AND DISPOSED OF PER THE SPECIAL PROVISIONS.

2. CONTRACTOR SHALL GRADE SUCH THAT SURFACES ARE SMOOTH AND GRADE BREAKS SMOOTHLY TRANSITION BETWEEN SLOPES.

3. SATURATED, ORGANIC, AND SOFT SOILS EXIST ON THE SITE. THE CONTRACTOR SHALL ANTICIPATE THE NEED TO USE OF LOW GROUND PRESSURE EQUIPMENT, TIMBER MATS, OR CONSTRUCTION OF TEMPORARY ACCESS ROADS TO FACILITATE ACCESS TO PROJECT AREAS AND TO MINIMIZE COMPACTION OF SENSITIVE SOILS.

4. THESE PLANS CONTAIN EARTHWORK FEATURES WHICH REQUIRE FINE GRADING. GRADE TOLERANCE SHALL BE 0.2' ± FOR SWALES, HUMMOCKS, DEPRESSIONS, AND BENCH.

5. PRIOR TO GRADING, STAKE LIMITS OF GRADING FOR INSPECTION BY THE ENGINEER, ALLOW 5 WORKING DAYS FOR REVIEW AND ADJUSTMENT.

6. MINIMIZE DISTURBANCE TO WETLAND ENHANCEMENT AREAS. SEE GENERAL NOTES ON SHEET G4. ALIGN LOW GROUND PRESSURE EQUIPMENT ROUTES WITH HUMMOCKS AND SWALES TO MINIMIZE IMPACT AREAS.

7. FILL HUMMOCKS AND SWALES TO AVOID NATIVE TREES AND SNAGS.

8. INSTALL CAPA SIGNS EVERY 100’ (MAX) ALONG SE 28TH STREET AND SE 36TH AVENUE. SEE SHEET C15.

9. ROCK PILES SHALL BE CONSTRUCTED OF FOUND MATERIALS SALVAGED FROM FILL REMOVAL TO THE EXTENT AVAILABLE.

10. IN SOME AREAS, FILL MAY EXTEND BELOW THE DEPTH OF GRADING. SEE SHEET L11 FOR SOIL TREATMENT IN THESE AREAS.

11. CONTRACTOR SHALL STAKE LIMITS AND LOCATIONS OF GRADING FEATURES (I.E. HUMMOCKS, SWALES, AND WETLAND DEPRESSIONS) AND HABITAT FEATURES FOR INSPECTION BY THE ENGINEER.

12. PRESERVE ALL DOWNED LIMBS, TRUNKS, AND OTHER NATURAL WOOD GREATER THAN 8" DIAMETER.

13. INSTALL WSDOT TYPE 3 CHAIN LINK FENCE PER STANDARD PLAN L-2810-03.

14. INSTALL CHAIN LINK SINGLE GATE PER WSDOT STANDARD PLAN L-3010-03.

15. FILL DITCH WITH MATERIAL EXCAVATED FROM SITE, PER SPECIFICATIONS.

16. INSTALL WSDOT TYPE 2 CHAIN LINK FENCE PER STANDARD PLAN L-2010-03.

17. INSTALL HABITAT LOG, TYPE 1.
NOTES

SEE SHEETS C01 AND C02 FOR LEGEND.

SECTION 34, T27N, R5E, W.M.
1. See Sheets G02 and C01 for legend.

2. Fill ditch with material excavated from site, per specifications.
NOTES
1. SEE SHEETS G02 AND C01 FOR LEGEND.
2. UNDETERMINED WETLANDS MAY EXIST IN THESE AREAS. MINIMIZE DISTURBANCE TO WETLANDS.
3. FILL DITCH WITH MATERIAL EXCAVATED FROM SITE, PER SPECIFICATIONS.

VIEW 1
MATCHLINE - SEE VIEW 1, THIS SHEET
FILL DITCH 3
SEE NOTE 3
EDGE OF VEGETATION
DITCH BLOCK, TYP C13

VIEW 2
MATCHLINE - SEE SHEET
MATCHLINE - SEE SHEET

SECTION 34, T27N, R5E, W.M.

NOT FOR CONSTRUCTION
LITTLE BEAR CREEK
ADVANCED MITIGATION SITE
GRADING PLAN, 5 OF 5
NOTES
1. PRESCRIBE TREES NOT FLAGGED FOR REMOVAL OR SNAGGING AS TREE ISLANDS.
2. SEE SHEETS G02 AND C01 FOR LEGEND.
NOTES

1. STREAMBED MATERIAL SHALL BE 30% STREAMBED SEDIMENT AND 70% 4" STREAMBED COBBLE, BY VOLUME.
2. STREAMBED MATERIAL SHALL BE INSTALLED PER THE SPECIFICATIONS.

1. STREAM 2

PROFILE

VERT. EXAGG: 4X, 1" = 10'

EXISTING GRADE

FINISH GRADE

2. STREAM 4

PROFILE

VERT. EXAGG: 4X, 1" = 10'

EXISTING GRADE

FINISH GRADE

NATIVE SOIL

4" DEPTH STREAMBED MATERIAL

NOTES

3. SECTION

STREAM 2

VERT. EXAGG: 4X, 1" = 10'

EXISTING GRADE

FINISH GRADE

4. STREAM

PROFILE

VERT. EXAGG: 4X, 1" = 10'

EXISTING GRADE

FINISH GRADE

NATIVE SOIL

4" DEPTH STREAMBED MATERIAL

NOTES

3. SECTION

STREAM 4

VERT. EXAGG: 4X, 1" = 10'

EXISTING GRADE

FINISH GRADE

NATIVE SOIL

4" DEPTH STREAMBED MATERIAL

NOTES

3. SECTION

STREAM 2

VERT. EXAGG: 4X, 1" = 10'

EXISTING GRADE

FINISH GRADE

NATIVE SOIL

4" DEPTH STREAMBED MATERIAL

NOTES

3. SECTION

STREAM 4

VERT. EXAGG: 4X, 1" = 10'

EXISTING GRADE

FINISH GRADE

NATIVE SOIL

4" DEPTH STREAMBED MATERIAL

NOTES
MIN BURIAL DEPTH
SEE NOTE 1
APPROX. 18" DIAMETER LOG WITH MULTIPLE BRANCHES. USE TREE FOUND ON SITE. (NOTE 4)
DESIGN GRADE
NATIVE BACKFILL MATERIAL. SEE NOTE 2
UNDISTURBED NATIVE SOIL
EXCAVATION LIMITS
NOTES:
1. MINIMUM SNAG BURIAL DEPTH TO BE 1/3 OF TOTAL HEIGHT.
2. NATIVE BACKFILL TO BE PLACED IN 6" LIFTS AND SHOULD BE FIRMLY COMPACTION MEETING THE APPROVAL OF THE ENGINEER. IN SOFT SOILS, SNAGS MAY ALSO BE DRIVEN INTO PLACE.
3. BORE 1" DIAMETER HOLE 6" DEEP ANGLED 10° DOWN FROM HORIZONTAL. 3 HOLES PER SNAG.
4. REUSE SALVAGED TREES FOR SNAGS, AS DIRECTED BY ENGINEER.
CAVITY (NOTE 3)
PROTECT BRANCHES DURING HANDLING
1. PLACE LOG ON CONTOUR.
2. INCLUDE MAJOR BRANCHES, BARK, AND ROOT WAD.
3. TAMPER LOG WITH MACHINERY TO ENSURE SECURE PLACEMENT.
FINISHED GRADE
ROCK PILE
NOTES:
1. ROCK PILES TO BE CONSTRUCTED OF NATIVE COBBLES AND BOULDERS EXCAVATED WITHIN THE LIMITS OF GRADING.
2. ROCKS SHALL BE CLEANED AND FREE OF SOIL PRIOR TO PILE CONSTRUCTION.
3. ROCKS SHALL BE MOSTLY ROUNDED WITH SOME JAGGED EDGES AND RANGE IN DIAMETER FROM 2" TO 2'. LARGER ROCKS MAY BE GROUPED TOGETHER AND PARTIALLY BURIED TO CREATE BURROW HABITAT. ACHIEVE A PILE DIAMETER OF 3' AND PILE HEIGHT OF 4' IF SITE QUANTITIES ALLOW.
4. CONSTRUCT PILES TO INCLUDE A VARIETY OF INTERSTITIAL SPACES NOT TO EXCEED SIX INCHES MAXIMUM AS DIRECTED BY THE BIOLOGIST OR ENGINEER.
FINISHED GRADE
HABITAT LOG
NOTES:
1. PLACE LOG ON CONTOUR.
2. PROVIDE ILLEGIBLE BRANCHES, BARK, AND ROOT WAD.
3. TAMPER LOG WITH MACHINERY TO ENSURE SECURE PLACEMENT.
FINISHED GRADE
BRUSH PILE
NOTES:
1. CONSTRUCT BRUSH PILES WITH BRANCHES OF VARYING SIZES. SEE SPECIAL PROVISIONS.
2. MIN THREE (3) PROTRUDING BRANCHES FOR PERCHES.
1. Construct hummocks from organic soils salvaged from grading activities as shown on plans.

2. Construct hummocks at a 1:2 (1:1 fill slope) until a target thickness of 12" is achieved. Then gently round hummock top. Maximum hummock height to exceed target by no more than 4".

3. Compact to a firm and unyielding condition.

4. Grading shall be rounded and smooth with no abrupt breaks.

5. Compacted fill.

6. Fill ditch with native material and compact overfill by 3" to 6" to accommodate future settlement.

1. Install ditch blocks per specifications.

2. Ditch top width

3. Compact fill

4. Crest

5. Finishing grade

6. Existing grade

7. Ditch thalweg

8. Fill ditch

9. Swale

10. Hummock

NOT FOR CONSTRUCTION
Critical Area Protection Area Sign Installation Guidelines

**TYPE 1 SIGN**

- **12" X 18"** Aluminum sign with white reflective background.
- Install one per protected feature in a conspicuous place.
- Minimum of two galvanized or stainless steel wood lag bolts to firmly secure sign.
- **4" X 4"** pressure treated wooden post with 1/2" chamfer at top.
- Magnetic locator pin (e.g., pipe, rebar, 20 penny nail, etc.) placed 0-12" from post along NGPA line.

**NOTES:**

1. CAPA signs shall be placed as shown around the perimeter of the Critical Area Protection Area. Minimum placement shall include one Type 1 sign per wetland, and at least one Type 1 sign shall be placed in any lot that borders the Critical Area Protection Area, unless otherwise approved by the County biologist.
2. Signs placement shall be subject to the approval of Snohomish County. Alternative sign designs may be submitted to Snohomish County for approval.
3. All signs must be secure and permanent.
4. Sign materials to be provided by the contracting agency.

**TYPE 2 SIGN**

- **1.5 ft. min.**
- **2 ft. min.**
- **3 ft.**
- **4 ft. min.**

- Foam white with black lettering.
- Pressure treated 2" X 4" (NOM.) fiberglass post. (Coronite style is ok provided it has an anchor.)
- Magnetic locator pin (e.g., pipe, rebar, 20 penny nail, etc.) placed 0-12" from post along CAPA line.

- Quick-set Concrete
- Steel anchor or similar anchor may be substituted for concrete on Type 2 signs provided it firmly anchors the post.
- Compacted native material
PLANTING LEGEND

MIX A - UPLAND CREATION
MIX B - UPLAND UNDERSTORY CREATION
MIX C - UPLAND UNDERSTORY ENHANCEMENT
MIX D - WETLAND CREATION
MIX E - WETLAND UNDERSTORY CREATION
MIX F - WETLAND UNDERSTORY ENHANCEMENT
MIX G - WETLAND RE-EST./REHAB.
MIX H - WETLAND RE-EST./ENH.
MIX I - ENHANCEMENT
MIX J - UPLAND CREATION/CREATION/
MIX K - WETLAND CREATION/CREATION/

NOTES

1. PREPARATION AND SEEDING SCHEDULES SEE SHEETS L07 & L08.
2. FOR PLANTING & SEEDS, PREPARATION DETAILS SEE SHEETS L1 & L11.
3. ALL WORK IN SATURATED SOILS AT ANY TIME OF THE YEAR OR DURING INCLEMENT WEATHER IS NOT ALLOWED WITHOUT APPROVAL BY THE PROJECT REPRESENTATIVE PRIOR TO EXECUTION, AND MAY REQUIRE USE OF TECHNIQUES AND EQUIPMENT DESIGNED TO MINIMIZE IMPACTS TO SATURATED SOILS OR ADJACENT AREAS OF STANDING WATER.
4. PLANTING OF WOODY MATERIAL SHOULD OCCUR BETWEEN OCTOBER 1 AND MARCH 1 TO TAKE ADVANTAGE OF SEASONAL RAINS AND AVOID AVAILABILITY OF PLANT MATERIAL. PLANTING DURING ABNORMALLY HOT, DRY, OR FREEZING WEATHER, OR AT TIMES OTHER THAN AS NOTED IS NOT ALLOWED WITHOUT PRIOR AUTHORIZATION BY THE PROJECT REPRESENTATIVE PRIOR TO EXECUTION AND MAY REQUIRE PLANT SUBSTITUTIONS AND SUPPLEMENTAL IRRIGATION. NO TREES OR SHRUBS SHALL BE PLANTED IN STANDING WATER. EXCEPT FOR LIVE STAKES.
5. PLANTS SHALL BE INSTALLED SO FINISH GRADE IS LEVEL WITH THE TOP OF ROOT BALL. PLANTS SHALL BE BACKFILLED AND WATERED IN UNIVERSITY OF WASHINGTON'S 100% SURVIVAL OF INSTALLED TREES, SHRUBS, AND SEED SPECIES EXCEPT FOR LIVE STAKES WITHIN ONE YEAR OF INSTALLATION.
6. RESTRICT FOOT TRAFFIC WITHIN PROTECTED AREAS.
7. SOIL DECOMPACTION IN WET SOILS AT ANY TIME OF THE YEAR OR DURING INCLEMENT WEATHER OR DURING PERIODS OF PROLONGED DRY OR HOT WEATHER IS NOT ALLOWED WITHOUT APPROVAL BY THE PROJECT REPRESENTATIVE PRIOR TO EXECUTION IN ORDER THAT SOIL STRUCTURE WILL BE MAINTAINED. SOIL SHOULD BE MOIST ENOUGH THAT DIGGING DOESN'T CREATE DUST, BUT DRY ENOUGH TO DRIVE EQUIPMENT WITHOUT創造 soil. DECOMPACT SOILS IN ALL AREAS WHERE SOIL COMPACTION HAS OCCURRED. AT MINIMUM, DECOMPACTION MUST OCCUR WHERE HARD SURFACES HAVE BEEN REMOVED. DECOMPACTION WILL BE ACCOMPLISHED BY SCARIFYING THE SOIL SURFACE WITH A MACHINERY SCRAPER OR A TRACTOR WITH SEEDING TEETH OR A CULTIVATOR, DISK Harrow, OR OTHER PIECE OF EQUIPMENT DESIGNED TO MINIMIZE IMPACTS TO SATURATED SOILS OR ADJACENT AREAS OF STANDING WATER.
8. SOIL DECOMPACTION IN WET SOILS AT ANY TIME OF THE YEAR OR DURING INCLEMENT WEATHER OR DURING PERIODS OF PROLONGED DRY OR HOT WEATHER IS NOT ALLOWED WITHOUT APPROVAL BY THE PROJECT REPRESENTATIVE PRIOR TO EXECUTION IN ORDER THAT SOIL STRUCTURE WILL BE MAINTAINED. SOIL SHOULD BE MOIST ENOUGH THAT DIGGING DOESN'T CREATE DUST, BUT DRY ENOUGH TO DRIVE EQUIPMENT WITHOUT CREATING DUST. BUT DRY ENOUGH TO DRIVE EQUIPMENT WITHOUT CREATING DUST. BUT DRY ENOUGH TO DRIVE EQUIPMENT WITHOUT CREATING DUST. BUT DRY ENOUGH TO DRIVE EQUIPMENT WITHOUT CREATING DUST. BUT DRY ENOUGH TO DRIVE EQUIPMENT WITHOUT CREATING DUST. BUT DRY ENOUGH TO DRIVE EQUIPMENT WITHOUT CREATING DUST. BUT DRY ENOUGH TO DRIVE EQUIPMENT WITHOUT CREATING DUST. BUT DRY ENOUGH TO DRIVE EQUIPMENT WITHOUT CREATING DUST. BUT DRY ENOUGH TO DRIVE EQUIPMENT WITHOUT CREATING DUST. BUT DRY ENOUGH TO DRIVE EQUIPMENT WITHOUT CREATING DUST. BUT DRY ENOUGH TO DRIVE EQUIPMENT WITHOUT CREATING DUST. BUT DRY ENOUGH TO DRIVE EQUIPMENT WITHOUT CREATING DUST. BUT DRY ENOUGH TO DRIVE EQUIPMENT WITHOUT CREATING DUST. BUT DRY ENOUGH TO DRIVE equipments designed to minimize impacts to saturated soils or adjacent areas of standing water.
9. FOR PLANTING AND SEEDING SCHEDULES SEE SHEETS L07 & L08.
10. PLANTS SHALL BE INSTALLED TO FINISH GRADE LEVEL WITH THE TOP OF ROOT BALL. PLANTS SHALL BE BACKFILLED AND THOROUGHLY WATERED SO THAT SOIL IS EASY TO DIG BY HAND. NO SOIL SCARIFICATION SHALL OCCUR WITHIN THE DRIPLINE OF VEGETATION TO BE RETAINED UNLESS APPROVED BY THE PROJECT REPRESENTATIVE.
11. NO SOIL SCARIFICATION SHOULD OCCUR WITHIN THE DRIPLINE OF VEGETATION TO BE RETAINED UNLESS APPROVED BY THE PROJECT REPRESENTATIVE.
12. MONITORING OF RESTORATION AREAS WILL OCCUR ONCE 30 DAYS AFTER PLANTING (STEM COUNT AND AS-BUILT MONITORING), ONCE AT THE END OF THE FIRST FULL GROWING SEASON FOLLOWING PLANTING, AND ANY TIME A PVC OR AT TIMES OTHER THAN AS NOTED IS NOT ALLOWED WITHOUT PRIOR AUTHORIZATION BY THE PROJECT REPRESENTATIVE.
13. IF ANY PORTION OF THE RESTORATION IS NOT SUCCESSFUL, A CONTINGENCY PLAN WILL BE IMPLEMENTED. SUCH PLANS ARE DEVELOPED ON A CASE-BY-CASE BASIS TO ADDRESS THE SPECIFIC CONCERNS OF THE PROJECT REPRESENTATIVE.
14. THE CONTINGENCY PLAN WOULD BE DEVELOPED IN COOPERATION WITH SNOMISH COUNTY.
15. APPLY HYDROSEED IN AREAS SHOWN ON PLANS AND WHERE RESTORATION PLANTING HAS NOT BEEN LOCATED BUT SITE HAS BEEN IMPACTED DURING PLANTING WORK.
16. NO PLANTING ON DITCH BLOCKS OR CHANNELS.
PLANTING LEGEND

1. FOR PLANTING AND SEEDING
SCHEDULED SEE SHEETS L03, L05, & L09.

2. FOR PLANTING & SOIL PREPARATION
DETAILS SEE SHEETS L10 & L11.
NOTES

1. FOR PLANTING AND SEEDING SCHEDULES SEE SHEETS L07, L08, & L09.

2. FOR PLANTING & SOIL PREPARATION DETAILS SEE SHEETS L10 & L11.
PLANTING LEGEND

MIX A - UPLAND ENHANCEMENT
MIX B - UPLAND UNDERSTORY ENHANCEMENT
MIX C - WOODLAND HUMMOCK WETLAND ENHANCEMENT
MIX D - WETLAND ENHANCEMENT
MIX E - WETLAND UNDERSTORY ENHANCEMENT
MIX F - WETLAND CREATION/RE-EST./REHAB.
MIX G - WETLAND CREATION/RE-EST./ENH.

8" DEPTH MAX.

NOTES
1. FOR PLANTING AND SEEDING SCHEDULES SEE SHEETS L07, L08, & L09.
2. FOR PLANTING & SOIL PREPARATION DETAILS SEE SHEETS L10 & L11.

SITE KEY

NOT FOR CONSTRUCTION

PLANTING PLAN, 3 OF 5
NOTES
1. FOR PLANTING AND SEEDING SCHEDULES SEE SHEETS L07, L08, & L09.
2. FOR PLANTING & SOIL PREPARATION DETAILS SEE SHEETS L10 & L11.

PLANTING LEGEND

SITE KEY
NOTES

1. FOR PLANTING AND SEEDING
   SCHEDULES SEE SHEETS L07, L08 & L09
2. FOR PLANTING & SOIL PREPARATION
   DETAILS SEE SHEETS L10 & L11.

PLANTING LEGEND

MIX A - UPLAND ENHANCEMENT
MIX B - UPLAND UNDERSTORY ENHANCEMENT
MIX C - WOODLAND HABITAT REHAB.
MIX D - WETLAND ENHANCEMENT
MIX E - WETLAND UNDERSTORY ENHANCEMENT
MIX F - WETLAND CREATION/RIP. REM.
MIX G - WETLAND REMAP
MIX H - WETLAND CREATION/INST. EXP.
MIX I - WETLAND CREATION

SECTION 34, T27N, R5E, W.M.

VIEW 1

VIEW 2

NOT FOR CONSTRUCTION
### PLANTING MIX A - UPLAND ENHANCEMENT (75,194 SF)

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>SCIENTIFIC NAME</th>
<th>COMMON NAME</th>
<th>INSTALL SIZE</th>
<th>SPACING OC</th>
<th>DISTRIBUTION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ABIES GRANDIS</td>
<td>GRAND FIR</td>
<td>1 GAL. CONT.</td>
<td>10'</td>
<td>20%</td>
<td>217</td>
</tr>
<tr>
<td></td>
<td>ACER MACRORHIZUM</td>
<td>BIGLEAF MAPLE</td>
<td>1 GAL. CONT.</td>
<td>10'</td>
<td>15%</td>
<td>130</td>
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<td>PRAUNUS EMARGINATA</td>
<td>BITTER CHERRY</td>
<td>1 GAL. CONT.</td>
<td>10'</td>
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<tr>
<td></td>
<td>PSEUDOTSUGA MENZIESI</td>
<td>DOUGLAS-FIR</td>
<td>1 GAL. CONT.</td>
<td>10'</td>
<td>20%</td>
<td>217</td>
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<tr>
<td></td>
<td>TSUGA HETEROPHYLLA</td>
<td>WESTERN HEMLOCK</td>
<td>1 GAL. CONT.</td>
<td>10'</td>
<td>20%</td>
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### PLANTING MIX B - UPLAND UNDERSTORY ENHANCEMENT (112,905 SF)

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<tbody>
<tr>
<td></td>
<td>THUIA PLATCA</td>
<td>WESTERN REDCEDAR</td>
<td>1 GAL. CONT.</td>
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<td>TSUGA HETEROPHYLLA</td>
<td>WESTERN HEMLOCK</td>
<td>1 GAL. CONT.</td>
<td>10'</td>
<td>20%</td>
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### PLANTING MIX C - WOODLAND HUMmock WETLAND ENHANCEMENT (12,061 SF)

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<tbody>
<tr>
<td></td>
<td>DRATAEAGUS DOUGLASII</td>
<td>BLACK HAWTHORN</td>
<td>1 GAL. CONT.</td>
<td>10'</td>
<td>10%</td>
<td>14</td>
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<tr>
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<td>FRANGULA PURSHIANA</td>
<td>CASCARA</td>
<td>1 GAL. CONT.</td>
<td>10'</td>
<td>10%</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>MALUS FUSA</td>
<td>PACIFIC CRABAPPLE</td>
<td>1 GAL. CONT.</td>
<td>10'</td>
<td>10%</td>
<td>14</td>
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<tr>
<td></td>
<td>PICA STICHENSIS</td>
<td>SITKA SPRUCE</td>
<td>1 GAL. CONT.</td>
<td>10'</td>
<td>10%</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>THUIA PLATCA</td>
<td>WESTERN REDCEDAR</td>
<td>1 GAL. CONT.</td>
<td>10'</td>
<td>10%</td>
<td>14</td>
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</tbody>
</table>

### SOIL PREPARATION

- APPLY SEED MIX 1 - UPLAND
- INSTALL 4" DEPTH MULCH AT PLANTING AREA

### MULCH

- INSTALL 4" DEPTH MULCH AT PLANTING AREA

### REFERENCES

- SHEET NO.
- SHEETS OF

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**NOT FOR CONSTRUCTION**
### PLANTING MIX III: RIPARIAN ENHANCEMENT (9,562 SF)

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<th>COMMON NAME</th>
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<tbody>
<tr>
<td>TREES</td>
<td>FRAXINUS LATIFOLIA</td>
<td>OREGON ASH</td>
<td>1 GAL CONT.</td>
<td>10'</td>
<td>20%</td>
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<tr>
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<td>PICEA STITCHENSIS</td>
<td>STITKA SPRUCE</td>
<td>1 GAL CONT.</td>
<td>10'</td>
<td>40%</td>
<td>44</td>
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<tr>
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<td>Thuja Plicata</td>
<td>WESTERN REDCEDAR</td>
<td>1 GAL CONT.</td>
<td>10'</td>
<td>40%</td>
<td>44</td>
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<tr>
<td>SHRUBS</td>
<td>Cornus Sericea</td>
<td>REDOSIER DOGWOOD</td>
<td>1 GAL. CONT.</td>
<td>5'</td>
<td>30%</td>
<td>66</td>
</tr>
<tr>
<td></td>
<td>Physocarpus Capitus</td>
<td>PACIFIC MINIBARK</td>
<td>1 GAL. CONT.</td>
<td>5'</td>
<td>30%</td>
<td>66</td>
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<tr>
<td></td>
<td>Ribes Bracteosum</td>
<td>STINK CURRANT</td>
<td>1 GAL. CONT.</td>
<td>5'</td>
<td>10%</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Salix Scouleriana</td>
<td>SALCAM'S WILLOW</td>
<td>1 GAL. CONT.</td>
<td>5'</td>
<td>10%</td>
<td>33</td>
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</tbody>
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**SEEDING**
APPLY SEED MIX 2 - WETLAND

**SOIL PREPARATION**
INSTALL 4" DEPTH MULCH AT PLANTING AREA

### PLANTING MIX I: FLOODPLAIN WETLAND CREATION (6,481 SF)

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<th>DISTRIBUTION</th>
<th>QUANTITY</th>
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<tbody>
<tr>
<td>TREES</td>
<td>Salix Hookeriana</td>
<td>HOOKER WILLOW</td>
<td>LIVE POLE</td>
<td>5'</td>
<td>15%</td>
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<tr>
<td></td>
<td>Salix Scouleriana</td>
<td>SCOLLER'S WILLOW</td>
<td>LIVE POLE</td>
<td>5'</td>
<td>15%</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>Salix Stitcheitis</td>
<td>SITKA WILLOW</td>
<td>LIVE POLE</td>
<td>5'</td>
<td>15%</td>
<td>45</td>
</tr>
<tr>
<td>SHRUBS</td>
<td>Salix Hookeriana</td>
<td>HOOKER WILLOW</td>
<td>LIVE POLE</td>
<td>5'</td>
<td>15%</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>Salix Scouleriana</td>
<td>SCOLLER'S WILLOW</td>
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<td>5'</td>
<td>15%</td>
<td>45</td>
</tr>
</tbody>
</table>

**SEEDING**
APPLY SEED MIX 2 - WETLAND

**SOIL PREPARATION**
INSTALL 3" DEEP LAYER OF COMPOST AND TILL INTO NATIVE SOIL, SEE NOTES SHEET

**MULCH**
DO NOT MULCH

### SEED MIX 1 - UPLAND

<table>
<thead>
<tr>
<th>SCIENTIFIC NAME</th>
<th>COMMON NAME</th>
<th>DISTRIBUTION BY WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bromus Carinatus</td>
<td>CALIFORNIA BROME</td>
<td>20%</td>
</tr>
<tr>
<td>Elymus glaucus</td>
<td>BLUE WILDRYE</td>
<td>25%</td>
</tr>
<tr>
<td>Festuca rubra</td>
<td>RED FESCUE</td>
<td>25%</td>
</tr>
<tr>
<td>Lupinus polyphyllus</td>
<td>BLOE LEAF LUPINE</td>
<td>10%</td>
</tr>
<tr>
<td>Prunella vulgaris</td>
<td>COMMON SELFHEAL</td>
<td>20%</td>
</tr>
</tbody>
</table>

### SEED MIX 2 - WETLAND

<table>
<thead>
<tr>
<th>SCIENTIFIC NAME</th>
<th>COMMON NAME</th>
<th>DISTRIBUTION BY WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agrostis exarata</td>
<td>SPIKE BENTGRASS</td>
<td>30%</td>
</tr>
<tr>
<td>Beckmannia syzigachne</td>
<td>AMERICAN SLOUGHRASS</td>
<td>10%</td>
</tr>
<tr>
<td>Deschampsia cespitosa</td>
<td>TUFTED HAI GRASS</td>
<td>10%</td>
</tr>
<tr>
<td>Glycyrrhiza occidentalis</td>
<td>WESTERN MANNAGRASS</td>
<td>5%</td>
</tr>
<tr>
<td>Hordeum brachyantherum</td>
<td>MEADOW BARLEY</td>
<td>40%</td>
</tr>
</tbody>
</table>
4" DEPTH MULCH PER SPECS, KEEP AWAY FROM STEM

TOP OF ROOTBALL 1/2" ABOVE SURROUNDING SOIL

CONSTRUCT 2' BEERM TO RETAIN WATER ON OVERALL SIZE OF PLANTING HOLE ONLY

SCRAP SOIL ON OUTER INCH OF ROOTBALL AND SPREAD ROOTS

BACKFILL WITH SOIL PER SPECIFICATIONS

PLANT ROOTS TO BE STRAIGHT AND UNDAMAGED BY INSTALLATION

OPEN PLANTING HOLE LARGE ENOUGH TO ACCOMMODATE ROOTS, COVER ROOTS WITH SOIL AND LIGHTLY TAP TO ELIMINATE AIR POCKETS IN PLANTING. BACKFILL WITH SOIL PER SPECIFICATIONS

PLANTING PIT: APPROXIMATE DIMENSIONS SHOWN. PLANTING PIT CAN BE DUG MANUALLY, USING A PLANTING BAR. SCARIFY THE SURFACE BEFORE BACKFILLING. TAMPER SOIL PERIODICALLY DURING PLANT INSTALLATION TO REMOVE AIR GAPS.

PLANT ROOTS TO BE STRAIGHT AND UNDAMAGED BY INSTALLATION

OPEN PLANTING HOLE LARGE ENOUGH TO ACCOMMODATE ROOTS, COVER ROOTS WITH SOIL AND LIGHTLY TAP TO ELIMINATE AIR POCKETS IN PLANTING. BACKFILL WITH SOIL PER SPECIFICATIONS

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PLANT BARE ROOT PLANT IN LOOSE, MOISTENED SOIL, BACKFILL CAREFULLY AROUND ROOT SYSTEM

PLANT BARE ROOT PLANT IN LOOSE, MOISTENED SOIL, BACKFILL CAREFULLY AROUND ROOT SYSTEM

2/3 LENGTH
12"
1/3 LENGTH
8"
PLANTING AREA PREPARATION

SEQUENCE:

STEP 1
PLACE 3" DEPTH FINE COMPOST

STEP 2
INCORPORATE FINE COMPOST TO 12" DEPTH

STEP 3
INSTALL SEED. SEE PLANTING PLAN FOR LOCATIONS.

EX GRADE

EX SUBGRADE

NOT TO SCALE

ROUGH AND LOOSE SOIL PREPARATION

SEQUENCE:

STEP 1
PLACE 3" DEPTH FINE COMPOST

STEP 2
INCORPORATE FINE COMPOST TO 12" DEPTH

STEP 3
INSTALL SEED. SEE PLANTING PLAN FOR LOCATIONS.

EX GRADE

EX SUBGRADE

NOT TO SCALE

SOIL PREPARATION TYPE 1

NOT TO SCALE

SOIL PREPARATION TYPE 2

NOT TO SCALE

SOIL PREPARATION FOR SOIL DEPLETED AREAS

NOT TO SCALE

NOT FOR CONSTRUCTION

NOTES

1. APPLY SOIL PREPARATION TYPE 1 TO ALL SEED AREAS.

2. APPLY SOIL PREPARATION TYPE 2 TO CONTAINER PLANTING AREAS.

3. APPLY ONLY STEPS 1 AND 2 OF SOIL PREPARATION TYPE 2 TO PLANTINGS OF LIVE POLES, LIVE STAKES, AND 10" TUBES. NO TOPSOIL OR MULCH ARE TO BE ADDED TO THESE AREAS.

4. PLANTING MIXES B (UPLAND UNDERSTORY ENHANCEMENT) AND E (WETLAND UNDERSTORY ENHANCEMENT) DO NOT REQUIRE ADDITIONAL SOIL PREPARATION TYPE 2 WITHOUT THE TOPSOIL STEP.

5. PLANTING MIX G DOES NOT REQUIRE TOPSOIL OR COMPOST, AS THE EXISTING WETLAND AREA HAS ACCEPTABLE SOIL CONDITIONS.

6. PLANTING MIX F ONLY REQUIRES TOPSOIL AND COMPOST IN WETLAND CREATION AREAS (SHOWN ON SHEET G09) AND 50% OF REMAINING AREA, AS DIRECTED BY THE ENGINEER.

7. LOCATIONS REQUIRING SOIL PREPARATION FOR SOIL DEPLETED AREAS SHALL BE PER DIRECTION OF THE ENGINEER.

8. SEE SPECIFICATIONS FOR TOPSOIL TYPE A REQUIREMENTS IF AVAILABLE SUPPLY OF TOPSOIL TYPE B IS EXHAUSTED.