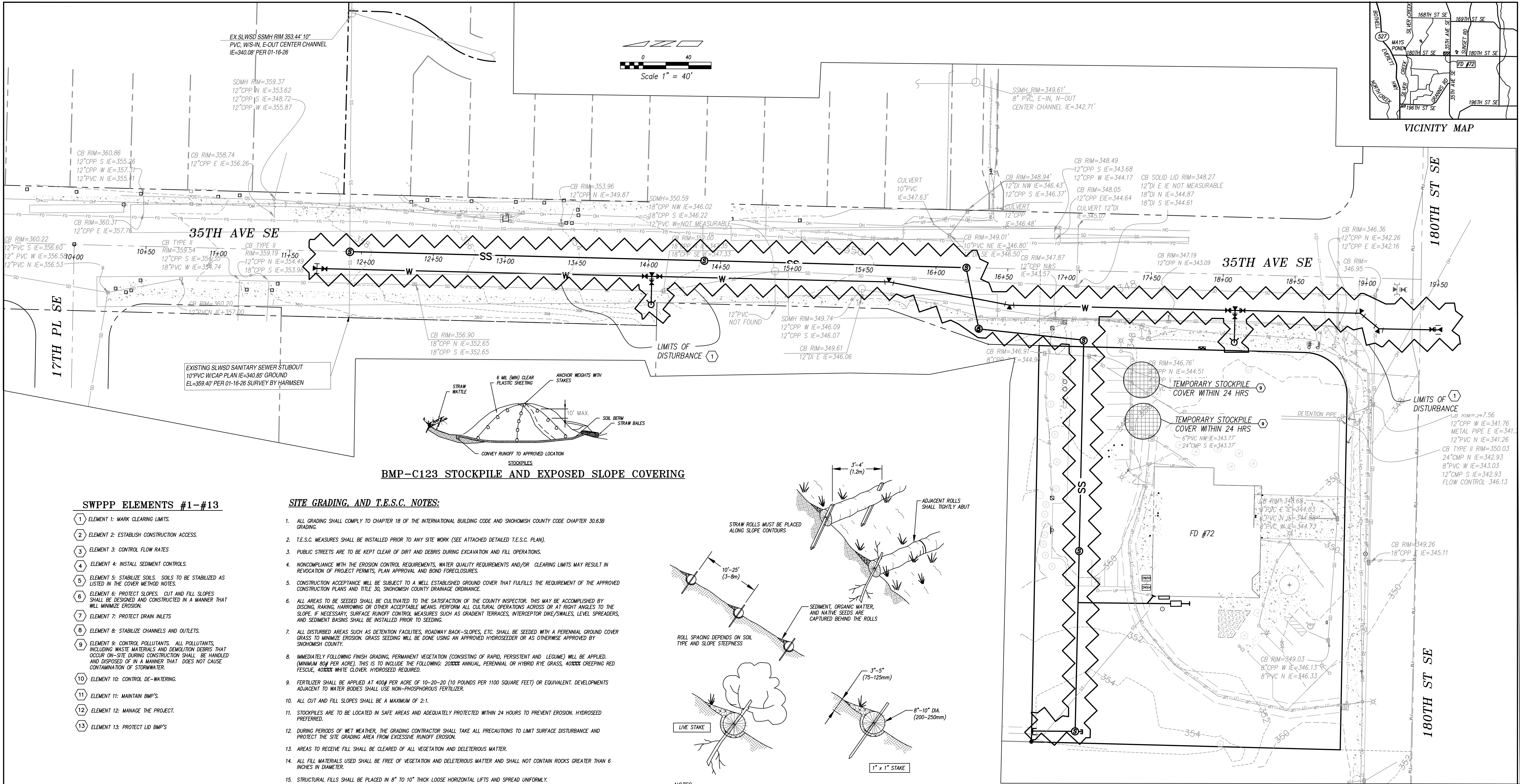




SWPPP ELEMENTS #1-#13

- ELEMENT 1: MARK CLEARING LIMITS.
- ELEMENT 2: ESTABLISH CONSTRUCTION ACCESS.
- ELEMENT 3: CONTROL FLOW RATES.
- ELEMENT 4: INSTALL SEDIMENT CONTROLS.
- ELEMENT 5: STABILIZE SOILS. SOILS TO BE STABILIZED AS LISTED IN THE COVER METHOD NOTES.
- ELEMENT 6: PROTECT SLOPES. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION.
- ELEMENT 7: PROTECT DRAIN INLETS.
- ELEMENT 8: STABILIZE CHANNELS AND OUTLETS.
- ELEMENT 9: CONTROL POLLUTANTS. ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS THAT OCCUR ON-SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER.
- ELEMENT 10: CONTROL DE-WATERING.
- ELEMENT 11: MAINTAIN BMP'S.
- ELEMENT 12: MANAGE THE PROJECT.
- ELEMENT 13: PROTECT LID BMP'S.

SITE GRADING, AND T.E.S.C. NOTES:

- ALL GRADING SHALL COMPLY TO CHAPTER 18 OF THE INTERNATIONAL BUILDING CODE AND SNOHOMISH COUNTY CODE CHAPTER 30.63B GRADING.
- T.E.S.C. MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE WORK (SEE ATTACHED DETAILED T.E.S.C. PLAN).
- PUBLIC STREETS ARE TO BE KEPT CLEAR OF DIRT AND DEBRIS DURING EXCAVATION AND FILL OPERATIONS.
- NONCOMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS AND/OR CLEARING LIMITS MAY RESULT IN REVOCATION OF PROJECT PERMITS, PLAN APPROVAL AND BOND FORECLOSURES.
- CONSTRUCTION ACCEPTANCE WILL BE SUBJECT TO A WELL ESTABLISHED GROUND COVER THAT FULFILLS THE REQUIREMENT OF THE APPROVED CONSTRUCTION PLANS AND TITLE 30, SNOHOMISH COUNTY DRAINAGE ORDINANCE.
- ALL AREAS TO BE SEEDD SHALL BE CULTIVATED TO THE SATISFACTION OF THE COUNTY INSPECTOR. THIS MAY BE ACCOMPLISHED BY DISCING, RAKING, HARROWING OR OTHER ACCEPTABLE MEANS. PERFORM ALL CULTURAL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPE. IF NECESSARY, SURFACE RUNOFF CONTROL MEASURES SUCH AS GRADIENT TERRACES, INTERCEPTOR DIKE/SWALES, LEVEL SPREADERS, AND SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO SEEDING.
- ALL DISTURBED AREAS SUCH AS DETENTION FACILITIES, ROADWAY BACK-SLOPES, ETC. SHALL BE SEEDD WITH A PERENNIAL GROUND COVER GRASS TO MINIMIZE EROSION. GRASS SEEDING WILL BE DONE USING AN APPROVED HYDROSEEDER OR AS OTHERWISE APPROVED BY SNOHOMISH COUNTY.
- IMMEDIATELY FOLLOWING FINISH GRADING, PERMANENT VEGETATION (CONSISTING OF RAPID, PERSISTENT AND LEGUME) WILL BE APPLIED. (MINIMUM 80% PER ACRE). THIS IS TO INCLUDE THE FOLLOWING: 20% ANNUAL, PERENNIAL OR HYBRID RYE GRASS, 40% CREEPING RED FESCUE, 40% WHITE CLOVER. HYDROSEED REQUIRED.
- FERTILIZER SHALL BE APPLIED AT 400# PER ACRE OF 10-20-20 (10 POUNDS PER 1100 SQUARE FEET) OR EQUIVALENT. DEVELOPMENTS ADJACENT TO WATER BODIES SHALL USE NON-PHOSPHOROUS FERTILIZER.
- ALL CUT AND FILL SLOPES SHALL BE A MAXIMUM OF 2:1.
- STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED WITHIN 24 HOURS TO PREVENT EROSION. HYDROSEED PREFERRED.
- DURING PERIODS OF WET WEATHER, THE GRADING CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO LIMIT SURFACE DISTURBANCE AND PROTECT THE SITE GRADING AREA FROM EXCESSIVE RUNOFF EROSION.
- AREAS TO RECEIVE FILL SHALL BE CLEARED OF ALL VEGETATION AND DELETERIOUS MATTER.
- ALL FILL MATERIALS USED SHALL BE FREE OF VEGETATION AND DELETERIOUS MATTER AND SHALL NOT CONTAIN ROCKS GREATER THAN 6 INCHES IN DIAMETER.
- STRUCTURAL FILLS SHALL BE PLACED IN 8" TO 10" THICK LOOSE HORIZONTAL LIFTS AND SPREAD UNIFORMLY.
- ALL STRUCTURAL FILLS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR TEST (ASTM D-1557-70).
- THE SURFACE OF ALL SLOPES SHALL BE COMPACTED. THIS MAY BE ACCOMPLISHED BY OVER-BUILDING THE SLOPES, THEN CUTTING BACK TO FINAL GRADES, OR BY RUNNING THE COMPACTOR OVER THE SLOPE AS EACH FILL LIFT IS BEING PLACED. ALL SLOPES SHALL BE COMPACTED BY THE END OF EACH WORKING DAY.
- DISTURBED AREAS TO BE STABILIZED WITH HYDROSEED OR STRAW MULCH WITHIN 24 HOURS OF COMPLETION OF FINAL GRADING DURING WET WEATHER.

COVER METHODS: 5 6

PROTECT DISTURBED SLOPES BY MULCHING (2"-4" THICKNESS). THIS CAN BE DONE BEFORE OR AFTER PERMANENT SEEDING. THE TYPES OF MULCHES AVAILABLE ARE DESCRIBED BELOW (TAKEN FROM THE D.O.E. MANUAL):

STRAW - MOST COMMONLY USED IN CONJUNCTION WITH SEEDING. ITS USE IS RECOMMENDED WHERE IMMEDIATE PROTECTION IS REQUIRED AND PREFERABLY WHERE THE NEED FOR PROTECTION WILL BE LESS THAN 3 MONTHS. THE STRAW SHOULD COME FROM WHEAT OR OATS, AND MAY BE SPREAD BY HAND OR MACHINE. STRAW CAN BE WINDBLOWN AND MUST BE ANCHORED DOWN (ROLLING OR PUNCHING INTO SOIL, COVERING WITH NETTING, SPRAYING TACKIFIER). CORN STALKS - THESE SHOULD BE SHREDDED INTO 4 TO 6-INCH LENGTHS. STALKS DECOMPOSE SLOWLY AND ARE RESISTANT TO WINDBLOW.

WOOD CHIPS/BARK CHIPS - SUITABLE FOR AREAS THAT WILL NOT BE CLOSELY MONITORED, AND AROUND ORNAMENTAL PLANTINGS. CHIPS DECOMPOSE SLOWLY AND DO NOT REQUIRE TACKING. WOOD CHIPS MUST BE TREATED WITH 12 POUNDS NITROGEN PER TON TO PREVENT NUTRIENT DEFICIENCY IN PLANTS (NOT NECESSARY FOR BARK). WOOD AND BARK CHIPS TEND TO WASH DOWN SLOPES OF MORE THAN 6 PERCENT AND CREATE PROBLEMS BY CLOGGING INLET GRATES, ETC. AND ARE THEREFORE NOT RECOMMENDED FOR USE IN THOSE AREAS. WOOD FIBER - USED IN HYDRO-SEEDING OPERATIONS, APPLIED AS PART OF THE SLURRY. THIS FORM OF MULCH DOES NOT PROVIDE SUFFICIENT PROTECTION TO ERODIBLE SOILS TO BE USED ALONE DURING THE HEAT OF SUMMER OR FOR LATE FALL SEEDINGS. WOOD FIBER HYDRO-SEED SLURRIES MAY BE USED TO TACK STRAW MULCH. THIS COMBINATION TREATMENT IS WELL SUITED FOR STEEP SLOPES AND CRITICAL AREAS. NETS AND MATS - USED ALONE, NETTING DOES NOT RETAIN SOIL MOISTURE OR MODIFY SOIL TEMPERATURE. IT STABILIZES THE SOIL SURFACE WHILE GRASSES ARE BEING ESTABLISHED, AND IS USEFUL IN GRASSED WATERWAYS AND ON SLOPES. LIGHT NETTING MAY ALSO BE USED TO HOLD OTHER MULCHES IN PLACE. ITS RELATIVELY HIGH COST MAKES IT MOST SUITABLE FOR SMALL SITES.

STRAW WATTLES

N.T.S

NOTES:

- STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" x 5" (75-125mm) DEEP, DUG ON CONTOUR.
- RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.



Know what's below.

Call 811 two business days before you dig.

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT, BY POT-HOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE AT 1-800-424-5555 AND THEN POT-HOLING ALL OF THE EXISTING UTILITIES AT THEIR LOCATIONS OF NEW UTILITY CROSSLINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATION OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION.

BMP T5.13 POST CONSTRUCTION SOIL QUALITY AND DEPTH:

ALL DISTURBED AREAS, (NOT OTHERWISE COVERED BY IMPERVIOUS AREA), ON AND OFF SITE, SHALL MEET THE COMPOST AMENDED REQUIREMENTS OF BMP T5.13 IN THE 2016 SNOHOMISH COUNTY DRAINAGE MANUAL VOLUME V, CHAPTER 5.

CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF TOPSOIL AND DUFF FROM THE PROPERTY AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND MEETING THE CONTAMINANT STANDARDS OF GRADE A COMPOST

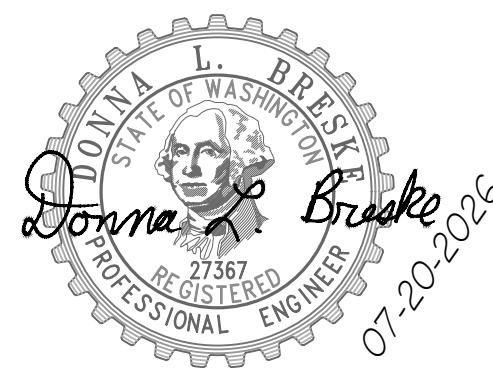
TOPSOIL DEPTHS SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA.

SUBSOIL BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS WHERE FEASIBLE.

ALDERWOOD WATER & WASTEWATER DISTRICT
APPROVED FOR WATER & SEWER CONNECTION

EXT. NO. 3962G

By: _____ Date: _____
ENGINEERING & DEVELOPMENT DEPARTMENT



DONNA BRESKE & ASSOCIATES
LAND USE PLANNING & CIVIL ENGINEERING

PHONE: 206-715-9582
DonnaB@DONNBRESKE.COM

www.DONNABRESKE.com

ADDRESS:
3431 180TH ST SE
BOTHELL, WA 98012

TESC PLAN
FOR
FIRE STATION 72

TAX PARCEL: TAX PARCEL:27050800402200 ORIGINAL ISSUE DATE:7-20-2026

SCALE: 1"=20'

SHEET: 1 of 1