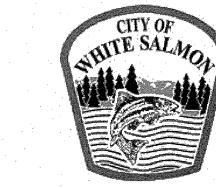
July 2021



OWNER/CLIENT

CITY OF WHITE SALMON PO BOX 2139 100 N MAIN ST WHITE SALMON, WA 98672 PHONE: (509) 493-1133 RUSS AVERY - PUBLIC WORKS SUPERINTENENT

ENGINEER/SURVEYOR

BELL DESIGN COMPANY 900 WEST STEUBEN STREET, PO BOX 308, BINGEN, WA. 98605 PHONE (509) 493-3886 FAX (509) 493-3885 DEVRY BELL, P.E. devbell@belldesigncompany.com

AGENCY & UTILITY CONTACTS

CITY OF WHITE SALMON PUBLIC WORKS PATRICK MUNYAN - (509) 493-1133 NE TOHOMISH ST, WHITÉ SALMON, WA 98762

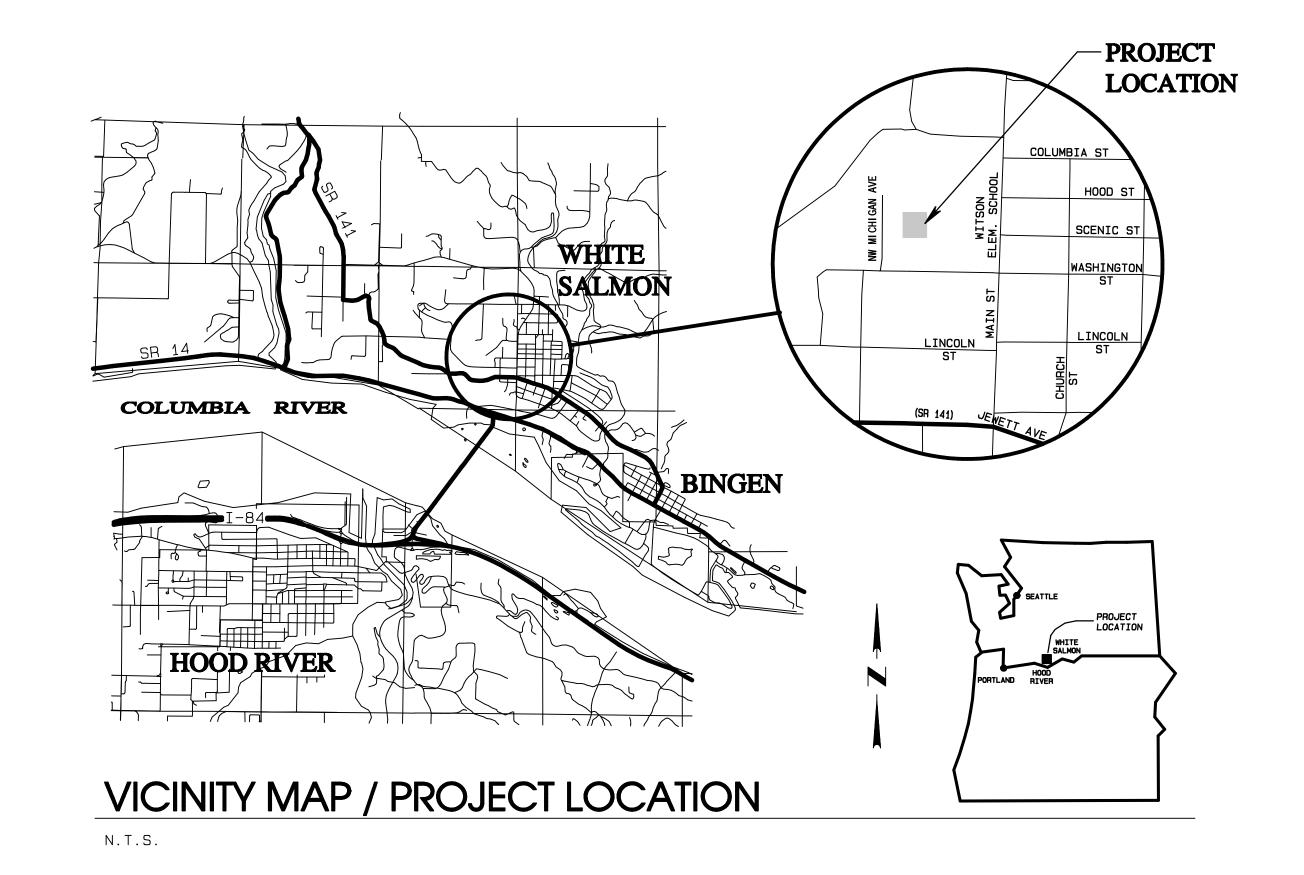
KLICKITAT PUBLIC UTILITY DISTRICT AARON ESTES - (509) 493-2255 110 NE ESTES AVE, WHITE SALMON, WA 98672

CENTURYLINK TELEPHONE JOEY SHELTON 541-380-1202 125 W COURT ST., GOLDENDALE WA 98620

NORTHWEST NATURAL GAS CO. RYAN WINFREE 503-226-4211 EXT. 2045 218 NE 66TH ST., VANCOUVER, WA 98662

CHARTER COMMUNICATIONS ERNIE GARCIA - (886) 874-2389 409 UNION STREET, THE DALLES, OR 97058

WHITE SALMON VALLEY SCHOOL DISTRICT MIKE CLARK - FACILITIES MANAGER 171 NW WASHINGTON STREET, WHITE SALMON, WA 98672



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CALL BEFORE YOU DIG

ONE CALL UTILITY LOCATE (WASHINGTON) - 811

ATTENTION EXCAVATORS: WASHINGTON LAW REQUIRES THE CONTRACTOR TO FOLLOW RULES ADOPTED BY THE WASHINGTON UTILITY NOTIFICATION CENTER.

THOSE RULES ARE SET FORTH IN RCW 19.122.10 THROUGH RCW 19.122.901. THE CONTRACTOR MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING (800) 424-5555 OR BY ACCESSING THE INTERNET AT APPS.LEG.WA.GOV/RCW/

THE CONTRACTOR MUST NOTIFY THE CENTER AT LEAST 2 BUSINESS DAYS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 811.

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4. CONTRACTOR SHALL IDENTIFY THE TYPE OF HAUL-OFF MATERIALS AND THE LOCATION'S ACCEPTANCE BY THE REFUGE SITE THAT IS HANDLING ITS DISPOSAL PRIOR TO BEGINNING WORK.

WATER AND DRAIN LINES TO THE POOL SHALL BE SECURELY CAPPED OFF WITH AN APPROVED FITTING. ALL ELECTRICAL POOL EQUIPMENT, INCLUDING THE BREAKER IN THE

5. DEMOLISH SIDES OF POOL AROUND ENTIRE STRUCTURE, TAKING THE CONCRETE AND ANY STEEL DOWN TO BOTTOM SURFACE OF THE POOL. REMOVE ALL MATERIALS, FENCINGS, DEFINED UTILITIES, PIPING, STRUCTURES AND FOUNDATIONS WITHIN THE WORK AREA. DEEPER REMOVAL OF SOME STRUCTURES MAY BE REQUIRED TO MEET THE APPROPRIATE FINAL GRADE OR TO REMOVE MATERIALS NON-SUITABLE MATERIALS.

6. THE BOTTOM SURFACE OF THE POOL MAY REMAIN, HOWEVER THE SURFACE OF THE REAMING POOL MATERIALS SHALL BE BROKEN UP TO ALLOW ADEQUATE DRAINAGE. NO BRIDGING OR LARGE CHUNKS OF CONCRETE MATERIAL SHALL BE ALLOW IN ORDER TO MINIMIZE POTENTIAL FOR LONG TERM SETTLEMENT

7. PROVIDE AND PLACE A MINIMUM 15-INCH DEPTH OF 34-INCH TO 1 12-INCH CLASS II PERMEABLE FREE DRAINING ROCK OVER THE BOTTOM OF THE POOL SHELL PRIOR TO BACKFILLING TO ALLOW FOR ADEQUATE DRAINAGE OF THE FILL MATERIALS.

8. PROVIDE SUITABLE SUBGRADE FILL MATERIALS (BACKFILL) AND COMPACT ACCORDING TO THE REQUIREMENTS SET FORTH HEREIN TO THE DESIRED FINAL GRADES IN THE WORK AREA AS DETERMINED BY THE PLAN OR AS DETERMINED IN THE FIELD BY THE ENGINEER. SEE SPECIFICATIONS FOR SUITABLE SUBGRADE FILL MATERIALS.

9. SELECT DEMOLITION SPOILS FROM THE SHELL MAY BE PLACED ABOVE THE DRAINAGE ROCK BUT SHALL NOT BE ALLOWED WITHIN THE UPPER 36-INCHES OF BACKFILL. NO BRIDGING OF MATERIALS SHALL BE ALLOWED THAT CREATE HOLLOWS OR SITUATIONS THAT IN THE OPINION OF THE ENGINEER WILL ALLOW LONG TERM SETTLEMENT OF BACKFILLED MATERIALS.

10. BACKFILL MATERIALS PLACED BELOW THE TOP 12-INCHES AND WITHIN THE UPPER 36-INCHES OF FILL SHALL BE WELL GRADED AND COMPACTED, IMPORTED GRANULAR CRUSHED OR PIT RUN MATERIALS MEETING THE CONDITIONS OF THE SPECIFICATIONS FOR SUITABLE SUBGRADE FILL MATERIALS.

11. THE UPPER 12 INCHES OF FILL MADE SHALL BE WELL GRADED, AMENDED SOILS SUFFICIENT FOR LANDSCAPING. SEE AMENDED SOIL SPECIFICATION.

12. USE ONLY APPROVED 3/4"-INCH CRUSHED SURFACING TOP COURSE FOR ALL UTILITY TRENCH BACKFILL. SEE WSDOT CRUSHED SURFACING TABLE.

INSPECTION REQUIREMENTS

ELECTRICAL PANEL, SHALL BE REMOVED.

THREE INSPECTIONS ARE REQUIRED FOR POOL REMOVALS.

- 1. A PRE-CONSTRUCTION/EROSION CONTROL INSPECTION SHALL BE SCHEDULED PRIOR TO EQUIPMENT AND MATERIALS MOBILIZATION.
- 2. AN IN-PROGRESS INSPECTION SHALL BE SCHEDULED WHEN REMAINING PORTIONS OF THE POOL FLOOR HAVE BEEN PREPARED FOR FILL PLACEMENT
- 3. A FINAL INSPECTION SHALL BE SCHEDULED AFTER ALL WORK IS COMPLETED.

OUTBUILDINGS

- 1. ALL OUTBUILDINGS SHALL BE DEMOLISHED AND/OR REMOVED. THIS INCLUDES, BUT IS NOT LIMITED TO, UTILITY BUILDINGS, DOGHOUSES, PUMP HOUSES, SCREENED ENCLOSURES, WORKSHOPS, AND OTHER ITEMS DISCUSSED DURING PRE-BID SITE INSPECTION OR AS SHOWN ON THE PLANS.
- 2. ALL PARTS OF THE STRUCTURE SHALL BE REMOVED. INCLUDING ALL ATTACHMENTS AND SUPPORTING STRUCTURES. SLABS AND FOOTERS SHOULD BE REMOVED.

- 3. THE CONTRACTOR SHALL PROVIDE TO THE CITY PROJECT MANAGER AND PROJECT ENGINEER A 24 HOUR CONTACT PERSON AND NUMBER.
- 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROCURE ALL APPLICABLE PERMITS, LICENSES, AND CERTIFICATES RELATIVE TO THE TRADES TO COMPLETE THE PROJECT AND FOR THE USE OF SUCH WORK WHEN COMPLETED. COMPLIANCE SHALL BE AT ALL LEVELS, FEREAL, STATE, COUNTY, AND LOCAL, RELATING TO THE PERFORMANCE OF THIS WORK.
- 5. WASHINGTON LAW REQUIRES THE CONTRACTOR TO FOLLOW RULES ADOPTED BY THE WASHINGTON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN RCW 19.122.10 THROUGH RCW 19.122.901. THE CONTRACTOR MAY OBTAIN COPIES OF THE RULES FROM THE CENTER BY CALLING (800) 424-5555 OR BY ACCESSING THE INTERNET AT APPS.LEG.WA.GOV/RCW/. THE CONTRACTOR MUST NOFITY THE CENTER AT LEST 2 BUSINESS DAYS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION.
- 6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITY (POT HOLING) LOCATIONS PRIOR TO CONSTRUCTION AND ARRANGE FOR THE RELOCATION OF ANY IN CONFLICT WITH THE PROPOSED CONSTRUCTION. THE LOCATIONS, DEPTH, AND DESCRIPTION OF EXISTING UTILITIES SHOWN WERE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE ENGINEER OF UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. ADDITIONAL GRADES ARE DIFFERENT THAN THOSE SHOWN O THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER WITH INFORMATION BEFORE COMMENCING WORK
- 7. THE CONTACTOR SHALL MAKE PROVISIONS TO KEEP ALL EXISTING UTILITIES THAT ARE NOT SCHEDULED TO BE REMOVED IN SERVICE AND PROTECT THEN DURING CONSTRUCTION. CONTACTOR SHALL IMMEDIATELY REPAIR OF REPLACE ANY DAMAGED UTILITIES USING MATERIAL AND METHODS APPROVED BY THE UTILITY OWNER. NO SERVICE INTERRUPTIONS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN AGREEMENT WITH THE UTILITY PROVIDER.
- 8. CONTRACTOR TO COORDINATE AND PROVIDE PROTECTION OR REMOVAL AS NECESSARY OF ALL PUBLIC AND PRIVATE UTILITIES FOR THE PROJECT WITHIN THE WORK AREA. ANY AND ALL EXISTING UTILITY PROTECTION AND REMOVAL SHALL BE INCIDENTAL TO THE PROJECT. NO EXTRA PAYMENT WILL BE MADE FOR ADJUSTMENT OF EXISTING UTILITIES.
- 9. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET THE INTENT OF THE PROJECT. APPLICABLE AGENCY REQUIREMENTS AND OTHER WORK AS NECESSARY TO PROVIDE A COMPLETE PROJECT.
- 10. THE CONTRACTOR SHALL KEEP AN APPROVED SET OF PLANS ON SITE AT ALL TIMES.
- 11. THE CONTRACTOR SHALL MAINTAIN AND COORDINATE ACCESS TO ALL AFFECTED PROPERTIES. THE CONTACTOR SHALL NOTIFY AFFECTED RESIDENTS AND BUSINESS OWNERS A MINIMUM OF 48 HOURS PRIOR TO ANY CLOSURES. PEDESTRIAN ACCESS TO ENTRANCES SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE RAMPS AND/OR OTHER APPROVED METHODS FOR MAINTAINING ACCESS TO ENTRANCES. CONSTRUCTION OF RAMP SHALL BE ADA COMPLIANT AND WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS OTHERWISE AGREED UPON.
- 12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY FIELD MEASUREMENTS AND OTHERWISE VERIFY ALL DIMENSIONS AND EXISTING CONSTRUCTION CONDITIONS INDICATED AND/OR SHOWN ON THE PLANS. SHOULD ANY ERROR OR INCONSISTENCY EXIST, THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK AFFECTED UNTIL REPORTED TO THE PROJECT ENGINEER FOR CLARIFICATION OR CORRECTION.
- 13. AT THE END OF EACH WORK DAY THE CONTRACTOR SHALL CLEAN UP THE PROJECT AREA AND LEAVE IT IN A NEAT AND SECURED MANNER UPON COMPLETION. THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE OF DEBRIS AND UNUSED MATERIAL.
- 14. ANY INSPECTION BY THE CITY, COUNTY, STATE, FEDERAL AGENCY, OR PROJECT ENGINEER SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN COMPLIANCE WITH THE APPLICABLE CODES, REGULATIONS, COUNTY STANDARDS, AND PROJECT CONTRACT DOCUMENTS.
- 15. CONTRACTOR SHALL PROVIDE EFFECTIVE EROSION PROTECTION TO INCLUDE, BUT NOT LIMITED TO, INLET PROTECTION, STRAW WATTLES, TRIANGULAR SILT DAMS, SILT FENCING, AND SEDIMENT BARRIERS TO MINIMIZE EROSION AND IMPACT TO ADJACENT PROPERTY. USE DOE APPROVED BMP'S AS REQIURED.
- 16. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN (TCP) TO THE CITY FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION IN ACCORDANCE WITH THE SPECIFICATIONS AND THESE PLANS. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL PLAN SHALL BE SUBJECT TO THE APPROVAL OF THE CITY. CONTRACTOR SHALL KEEP AN APPROVED TCP ON SITE AT ALL TIMES.
- 17. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL CONSTRUCTION SAFETY, HEALTH, AND OTHER RULES AND REGULATIONS FROM WSHA, DOE, STATE, AND LOCAL REGULATING AGENCIES FOR SAFETY AND INSTALLATION OF THE WORK INCLUDING, BUT NOT LIMITED TO, SHORING, BRACING, ERECTION/INSTALLATION, FALL PROTECTION, GUARDRAILS, ETC.
- 18. CONTRACTOR SHALL PRUNE, REMOVE AND DISPOSE OF ALL VEGETATION INCLUDING TREES, STUMPS, BRUSH, ROOTS, TOPSOIL, AND OTHER MATERIAL IN THE AREA OF WORK AND WHERE INDICATED ON THE PLANS (U.N.O.) AND/OR AS DETERMINED BY THE ENGINEER. MATERIALS SHALL BE DISPOSED OF IN SUCH A MANNER AS TO MEET ALL APPLICABLE REGULATIONS. THE CONTRACTOR SHALL PROTECT ALL EXISTING LANDSCAPING THAT IS TO REMAIN.
- 19. PROPERTY LINES SHOWN ON THE PLAN SHEETS ARE FOR GENERAL DELINEATION ONLY AND ARE. BY NO MEANS. MEANT TO REPRESENT THE ACTUAL BOUNDARIES. CONTRACTOR SHALL USE A WASHINGTON STATE LICENSED SURVEYOR TO REPLACE ALL PROPERTY MARKERS DISTURBED BY THEIR WORK AT NO ADDITIONAL EXPENSE TO THE CITY.
- 20. CONTRACTOR TO VERIFY FIELD ELEVATIONS PRIOR TO CONSTRUCTION TO ENSURE COMPLIANCE WITH THE CONSTRUCTION DRAWINGS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
- 21. SEE SCOPE OF WORK FOR RERQUIRED COPMACTION AND FILL MATERIAL STANDARDS.
- 22. 3/4"-0" CRUSHED SURFACING TOP COURSE FOR PIPE ZONE AND CLASS D BACKFILL MATERIAL IS REQUIRED FOR ALL UTILITY LINES AND CONDUITS (U.N.O.). FOLLOW ALL UTILITY TRENCH REQUIREMENTS.

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- 2 THE LIMITS OF CLEARING SHALL BE FLAGGED OR OTHERWISE AGREED UPON BY THE ENGINEER PRIOR TO CLEARING AND GRUBBING OF THE SITE.
- 3 ANY EXISTING TREES TO REMAIN WITHIN THE CLEARING LIMITS SHALL BE PROTECTED FROM DAMAGE:
- 4. PRIOR TO ANY FILL PLACEMENT, ALL AREAS WHICH WILL RECEIVE STRUCTURAL FILL SHALL BE EXCAVATED TO FIRM, NON-ORGANIC, UNDISTURBED NATIVE GROUND. THE STRIPPED AREAS SHALL BE OBSERVED AND ACCEPTED BY THE ENGINEER.
- 5. FILLS SHALL BE INSTALLED IN VERTICAL LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS AND SHALL BE COMPACTED AS PREVIOUSLY NOTED.
- 6. FILLS PLACED ON SLOPES EXCEEDING 5H: 1V SHALL BE KEYED AND BENCHED, WITH ENGINEER APPROVAL REQUIRED PRIOR TO ANY FILL PLACEMENT.
- 7. ALL SURFACES SHALL BE GRADED SMOOTH AND BE FREE OF IRREGULARITIES THAT MIGHT ACCUMULATE SURFACE WATER.
- 8. ALL CUT AND FILL SLOPES SHALL NOT EXCEED 2: 1 SLOPES, UNLESS APPROVED BY THE ENGINEER. THE CONTRACTOR MAY, AT HIS OWN EXPENSE, PROVIDE A GEOTECHNICAL ENGINEERING REPORT TO THE PROJECT ENGINEER FOR REVIEW OF SLOPES IN EXCESS OF 2: 1. HOWEVER, THE FINAL DECISION WILL BE MADE BY
- 9. THE PROJECT ENGINEER.
 - ANY EXCESS MATERIAL NOT REQUIRED TO MEET THE GRADES SHOWN ON THE PLANS SHALL BE HAULED FROM THE SITE TO A CONTRACTOR PROVIDED WASTE SITE.
- 10. ALL EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED BY SUITABLE APPLICATION OF EROSION CONTROL BMP'S.
- 12. CONTRACTOR TO PRESERVE GRADE ALONG DEMO'D SECTION OF WORK SO THAT EXISTING ELEVATIONS

PERPENDICULAR TO SURFACE FLOW TO REDUCE EROSION AND HELP VEGETATION)

CAN BE RE-ESTABLISHED. OBTAIN INSPECTOR APPROVAL PRIOR TO DEMO.

11. ALL SURFACES REQUIRING VEGETATION SHALL BE ROUGHENED PRIOR TO SEEDING (I.E. WHEEL TRACKED

AMENDED SOILS SPECIFICATION

AMENDED SOILS MULCH SPECIFICATIONS:

AMENDED SOILS TO CONSIST OF 1/3 PART NATIVE SOIL, 1/3 PART IMPORTED ORGANIC COMPOST, & 1/3 PART GRAVELLY SAND.

IMPORTED ORGANIC COMPOST:

ORGANIC COMPOST SHALL BE COMMERCIAL GRADE MUSHROOM COMPOST OR COMMERCIALLY MANUFACTURED COMPOSTED YARD DEBRIS COMPOSTED UNDER CONTROLLED AEROBIC DECOMPOSITION CONTAINING A MAXIMUM OF 10% BACTERIA AND 10% FUNGUS. ORGANIC COMPOST MAY BE AUGMENTED WITH HORTICULTURAL GRADE PEAT MOSS FREE OF WOODY SUBSTANCES.

ORGANIC COMPOST SHALL HAVE THE FOLLOWING PROPERTIES: 100% SHALL PASS A 1/2-INCH SCREEN, pH BETWEEN 5.5 AND 7.0, CARBON NITRIGEN RATIO BETWEEN 20:1 AND 35:,1 ORGANIC MATTER CONTENT SHALL BE BETWEEN 40 AND

GRAVELLY SAND:

GRAVELLY SAND SHALL BE FREE OF ORGANIC MATERIAL, CONTAMINANTS, AND HAZARDOUS MATERIALS AND SHALL CONFORM TO THE FOLLOWING GRADATION:

US SELVE SLZE PERCENT PASSING 100 2-INCH 3/4-INCH 70-100 1/4-INCH 50-80 NO. 50 15-40 NO. 200 0-3

MIXING AND PLACEMENT:

MIX COMPOST, SAND, AND MATIVE SOIL TO A HOMOGENOUS CONSISTENCY DO NOT MIX COMPOST, SAND, AND NATIVE SOIL IN THE RAIN OR WET CONDITIONS. PLACE AMENDED SOIL MIX IN RAIN GARDENS AND STORMWATER PLANTERS IN LIFTS NOT EXCEEDING 6-INCHES IN LOOSE THICKNESS. AFTER ALL LIFTS HAVE BEEN PLACES, SOIL TO FINISH GRADES AS SPECIFIED ON THE PLANS, DO NOT OVER COMPACT SOIL MIX WITH MECNANICAL EQUIPMENT AFTER PLACEMENT.

SHREDDED BARK MULCH (NOT BARK DUST OR BARK CHIPS) SHALL BE USED IN A 2-INCH LAYER MINIMUM OVER THE AMENDED SOIL MIX AND BETWEEN THE PLANTINGS TO COMPLETELY COVER THE SOIL AND PREVENT EROSION OR WEED INTRUSION.

SUITABLE SUBGRADE FILL MATERIALS

THE FOLLOWING GUIDELINES FOR MATERIALS SHALL BE REQUIRED FOR PLACEMENT FILL MATERIALS FOR THIS PROJECT:

- 1. IMPORTED GRANULAR CRUSHED OR PIT RUN MATERIAL SHALL BE USED FOR ENGINEERED FILL AS SPECIFIED IN THESE PLANS. ONLY APPROVED WSDOT CRUSHED SURFACING TOP COURSE (CSTC) AND CRUSHED SURFACING BASE COURSE (CSBC) MATERIAL SHALL BE UTILIZED FOR NEW BASE MATERIALS SUPPORTING ROADS, SHOULDERS, SIDEWALKS, CURBS, UTILITIES, STRUCTURAL FOUNDATIONS AND PAVED AREAS. SEE APPROPRIATE COMPACTION STANDARDS FOR THESE USES ELSEWHERE IN THESE PLANS. APPROVED CRUSHED GRANULAR 3" MINUS MATERIAL MEETING CITY OF WHITE SALMON SPECIFICATIONS MAY BE MIXED WITH PIT RUN MATERIAL FOR USE OF SUBGRADE PREPARATION WHEN APPROVED BY THE ENGINEER. DO NOT ALLOW LARGE CLUMPS OF FINER GRAINED MATERIALS TO BE PLACED IN LIFTS GREATER THAN 6-INCHES MAXIMUM.
- 2. SATISFACTORY SOILS FOR SOIL FILL SHALL INCLUDE: APPROVED ASTM D2487 SOIL CLASSIFICATION GROUPS GW. GP. GM. SW. SP AND SM. OR A COMBINATION OF THESE SYMBOLS: FREE OF ROCK OR GRAVEL LARGER THAN 12-INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION AND OTHER DELETERIOUS MATTER.
- 3. UNSATISFACTORY SOILS FOR SOIL FILLS SHALL BE DEFINED AS: ASTM D2487 SOIL CLASSIFICATION GROUPS GC, SC, ML, MH, CL, CH, OL, OH AND PT, OR A COMBINATION OF THESE SYMBOLS. TO ACHIEVE MAXIMUM DENSITY OF FILL MATERIALS AND MINIMIZE THE DEPTH OF SECONDARY SETTLEMENT, USE GP SOILS WITH 100% PASSING THE 12-INCH SIEVE AND LESS THAN 15% PASSING THE 1-INCH SIEVE. WHEREVER POSSIBLE. USE HOMOGENEOUS LIFTS OF THIS MATERIAL BELOW ANY INTENDED STRUCTURE.

EQUIPMENT:

- 1. SPREADING EQUIPMENT SHALL BE OF SUFFICIENT CLASS AND WEIGHT TO PROVIDE EFFECTIVE COMPACTION. THE FOLLOWING EQUIPMENT CLASSIFICATIONS INDICATE MINIMUM ENERGY TO MATERIAL LIFT THICKNESS REQUIRED TO PROVIDE SUITABLE COMPACTION. APPROVED SUBSTITUTIONS SHOULD BE VERIFIED IN WRITING WITH THE ENGINEER PRIOR TO PLACEMENT OF MATERIALS. COMPACTION EQUIPMENT SHALL BE OF THE FOLLOWING CLASSES AND LIFT THICKNESS:
- 2. CRAWLER TRACTOR: NO SMALLER THAN D-8 WITH BLADE, 34,500-LB FOR HIGH COMPACTION. MAX LIFT THICKNESS AT 12-INCHES WITH 3-4 PASSES EACH LIFT.
- 3. VIBRATORY BASEPLATE COMPACTORS (SELF-PROPELLED SINGLES OR TRAILER GANGS): USE FOR LIFT THICKNESS BETWEEN 8-10 INCHES, MINIMUM OF 3 COVERAGES. MINIMUM VIBRATION FREQUENCY SHOULD BE NO LESS THAN 1600 CYCLES PER MIN.
- 4. TRACK-HOE MOUNTED VIBRATORY PLATES: USE FOR LIFT THICKNESS BETWEEN 8-12 INCHES. MINIMUM FULL EFFORT DURATION AT 10 SECONDS EACH PLATE AREA. MINIMUM OF 10,000 LBS FORCE. MINIMUM VIBRATION FREQUENCY SHOULD BE NO LESS THAN 1200 CYCLES PER MIN. CONTRACTOR ASSUMES ALL RISKS ASSOCIATED WITH THE USE OF VIBRATORY EQUIPMENT IN REGARDS TO SETTLEMENT OF ADJACENT EXISTING STRUCTURES.
- 5. COURSE GRID DOUBLE OR SINGLE DRUM VIBRATORY ROLLER: MINIMUM TOTAL WEIGHT OF 60,000 LBS. USE FOR LIFT THICKNESS BETWEEN 18-24 INCHES. THE ROLLER SHALL OPERATE DURING COMPACTION PASSES AT A MINIMUM VIBRATION FREQUENCY OF 1000 CYCLE PER MIN. 2 PASSES MINIMUM.

ALTERNATIVE METHODS AND MATERIALS:

CONTRACTORS WISHING TO UTILIZE MATERIALS AND/OR COMPACTION METHODS DIFFERING FROM THOSE LISTED ABOVE MUST PROVIDE THE ENGINEER WITH SUFFICIENT MATERIAL SAMPLES AND EQUIPMENT SPECIFICATIONS PRIOR TO BEGINNING WORK. THE ENGINEER WILL UPON REQUEST OF THE OWNER DETERMINE ALTERNATIVE METHODOLOGY STANDARDS IF APPROPRIATE.

WSDOT CRUSHED SURFACING

	PERCENT PASSING	
SIEVE SIZE	BASE COURSE	TOP COURSE
1 1/4"	99-100	
1"	80-100	
3/4"		99-100
5/8"	50-80	
1/2"		80-100
No. 4	25-45	46-66
No. 40	3–18	8-24
No. 200	7.5 max.	10.0 max.
% Fracture	75 min.	75 min.
Sand Equivalent	40 min.	40 min.

CSBC = CRUSHED SURFACING TOP COURSE

CSTC = CRUSHED SURFACING BASE COURSE

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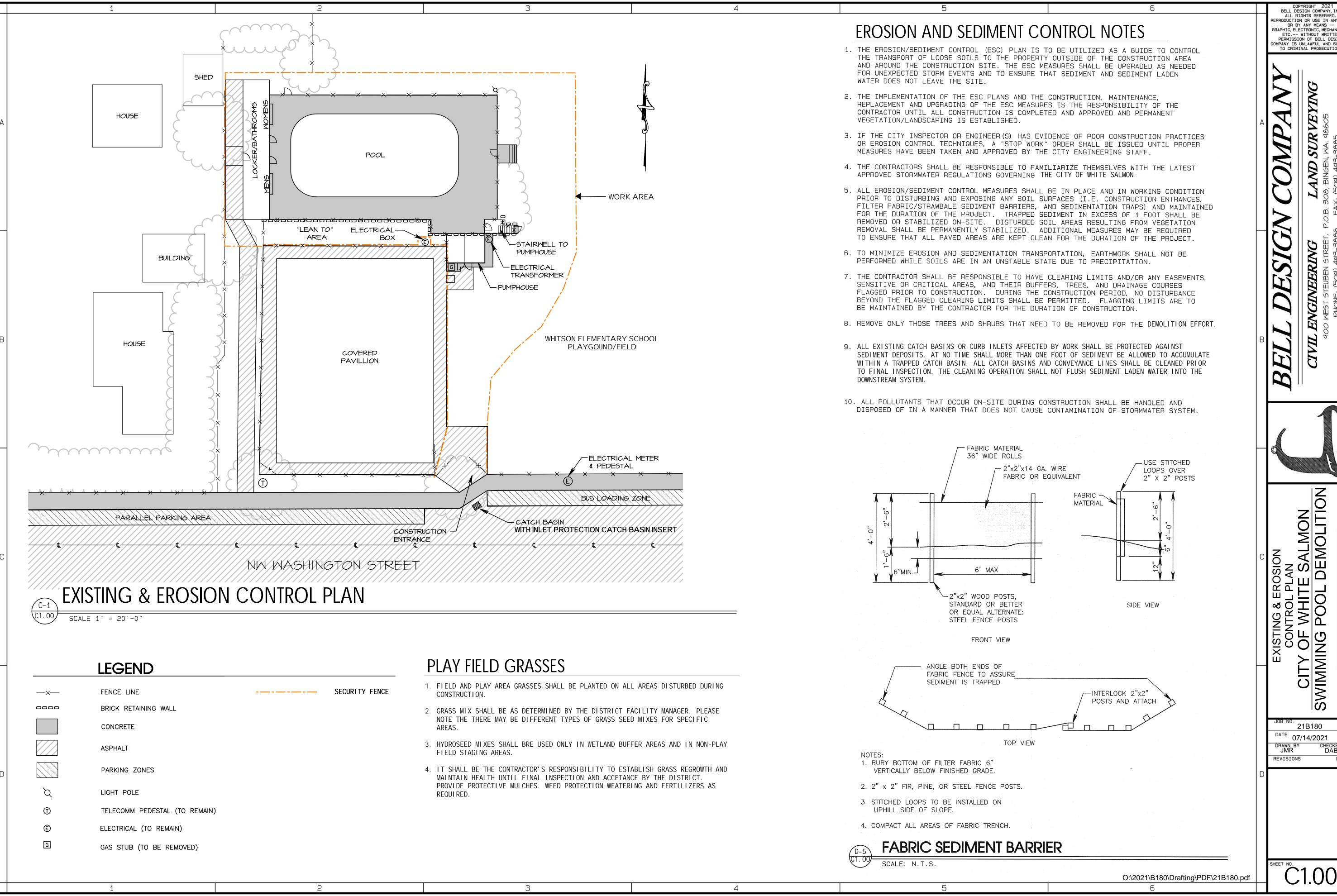
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