

GENERAL NOTES:

- 1. ALL WORK AND MATERIALS SHALL CONFORM TO THE LATEST ADDITION OF THE CITY OF WHITE SALMON'S (WS) CONSTRUCTION STANDARD SPECIFICATIONS AND/OR WASHINGTON DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND AMENDMENTS
- 2. CONTRACTOR SHALL NOTIFY THE CITY OF WHITE SALMON 48 HOURS (TWO BUSINESS DAYS) IN ADVANCE OF STARTING CONSTRUCTION AND 24 HOURS BEFORE RESUMING WORK AFTER SHUTDOWNS, EXCEPT FOR NORMAL RESUMPTION OF WORK FOLLOWING SATURDAYS, SUNDAYS, OR HOLIDAYS.
- 3. THE CONTRACTOR SHALL PROVIDE TO THE CITY PROJECT MANAGER AND PROJECT ENGINEER A 24 HOUR CONTACT PERSON AND PHONE 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, FEDERAL, 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 ACW 19.122.10 THROUGH ACW 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/ACW/. THE CONTRACTOR MUST NOTIFY THE CENTER AT LEAST 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 OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. ADDITIONAL UTILITIES MAY EXIST WITHIN THE WORK AREA. IF AFTER POT HOLING, THE CONTRACTOR FINDS THAT UTILITY LOCATION OR GRADES ARE DIFFERENT THAN THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER WITH THE INFORMATION BEFORE COMMENCING WORK.
- 7. THE CONTRACTOR SHALL MAKE PROVISIONS TO KEEP ALL EXISTING UTILITIES IN SERVICE AND PROTECT THEM DURING CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR 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 INSTALLATION AND/OR RELOCATION AS NECESSARY OF ALL PUBLIC AND PRIVATE UTILITIES FOR THIS PROJECT INCLUDING WATER SERVICE, SANITARY SEWER SERVICE, STORM DRAIN, ELECTRIC POWER, COMMUNICATIONS, CABLE TV, NATURAL GAS, STREET LIGHTS, ETC. ALL EXISTING MANHOLES, CATCH BASINS, SERVICE METERS, ETC, WITHIN THE WORK AREA WHICH NEED TO BE RAISED OR LOWERED TO MATCH THE NEW FINISHED GRADE OF THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY AND ALL EXISTING UTILITY RELOCATION OR CONSTRUCTION SHALL BE INCIDENTAL TO THE PROJECT (SEE NOTE 9 BELOW). NO EXTRA PAYMENT WILL BE MADE FOR ADJUSTMENT OF EXISTING UTILITIES EXCEPT WHERE SPECIFICALLY STATED OTHERWISE ELSEWHERE IN THE PLANS OR CONTRACT DOCUMENTS
- 9. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THIS PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET THE INTENT OF THE PROJECT CONTRACT DOCUMENTS. APPLICABLE AGENCY REQUIREMENTS AND OTHER WORK AS NECESSARY TO PROVIDE A COMPLETE PROJECT.
- 10. THE CONTRACTOR SHALL KEEP AN APPROVED SET OF PLANS, CITY OF WHITE SALMON CONSTRUCTION STANDARD SPECIFICATIONS, AND WASHINGTON DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS ON SITE AT ALL TIMES.
- 11. THE CONTRACTOR SHALL MAINTAIN AND COORDINATE ACCESS TO ALL AFFECTED PROPERTIES. THE CONTRACTOR 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, BRIDGES, AND/OR OTHER APPROVED METHODS FOR MAINTAINING ACCESS TO ENTRANCES. CONSTRUCTION OF RAMPS/BRIDGES SHALL BE ADA COMPLIANT, AND WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 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. RELIVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN COMPLIANCE WITH THE APPLICABLE COSTS. REGULATIONS, CITY STANDARDS AND PROJECT CONTRACT DOCUMENTS.
- 15. CONTRACTOR SHALL PROVIDE EFFECTIVE EROSION PROTECTION TO INCLUDE, BUT NOT BE LIMITED TO, INLET PROTECTION, STRAW WATTLES, TRIANGULAR SILT DIKES, SILT FENCING, AND SEDIMENT BARRIERS TO MINIMIZE EROSION AND IMPACT TO ADJACENT PROPERTY. SEE EROSION AND SEDIMENT CONTROL NOTES AND PLANS.
- 16. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN (TCP) 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 PROJECT ENGINEER. 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 SHORTING, 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 ALL 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 CENTERLINE AND TOP OF CURB ELEVATIONS PRIOR TO CONSTRUCTION TO ENSURE COMPLIANCE WITH THE CONSTRUCTION DRAWINGS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
- 21. ALL JOINTS BETWEEN A.C. AND CONCRETE STRUCTURES MUST BE TACKED.
- 22. WHEN MATCHING EXISTING PAVEMENT, SAWCUT TO FIRM PAVEMENT. MINIMUM SAWCUT IS 2' FROM EXISTING EDGE OF PAVEMENT OR AS SHOWN ON PLANS. TACK AND SEAL JOINTS.
- 23. T-CUT ASPHALT AND PAVEMENT REPAIR SHALL BE DONE IN ACCORDANCE WITH THE CITY OF WHITE SALMON STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. ALL CUTS MUST BE APPROVED BY THE ENGINEER.
- 24. NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN AT NIGHT, UNLESS APPROVED BY THE ENGINEER. PROVIDE APPROVED AND SECURED STEEL PLATES WHEN NECESSARY.

WATER NOTES:

- 1. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE DEVELOPER SHALL ARRANGE AND ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE CITY. THE DEVELOPER, CONTRACTOR AND PROPOSED ON-SITE SUPERVISORS SHALL ATTEND.
- 2. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION, INCLUDING ADDENDA AND UPDATES, OF THE CITY OF WHITE SALMON CONSTRUCTION STANDARD SPECIFICATIONS AND DETAILS. CONTRACTOR SHALL HAVE THE CITY OF WHITE SALMON STANDARDS ON THE JOBSITE ANY TIME CONSTRUCTION IS IN PROGRESS.
- 3. NO CITY INSPECTIONS WILL TAKE PLACE AND THE JOB WILL BE SHUT DOWN UNLESS AND APPROVED AND CITY SIGNED COPY OF THE PLANS IS ON THE JOB SITE AT ALL TIMES CONSTRUCTION IS IN PROGRESS.
- 4. ALL WATER SYSTEM IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS. ANY DEVIATION FROM THE PLANS WILL REQUIRE APPROVAL FROM THE OWNER, ENGINEER, CITY AND APPROPRIATE PUBLIC AGENCIES.
- 5. NOTIFY THE CITY 72 HOURS (3 WORKING DAYS) PRIOR TO BEGINNING CONSTRUCTION AND FOR ANY RESTARTS OF WORK.
- 6. THE CITY SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO THE TIME THE DEVELOPER WOULD LIKE TO CONNECT TO EXISTING MAINS OR FOR INSTALLATION OF TAPPING TEES. THE CONNECTION SHALL BE DONE IN ACCORDANCE WITH CITY REQUIREMENTS. CONNECTIONS TO TAKE PLACE TUESDAYS THROUGH THURSDAYS ONLY. DEVELOPER SHALL NOT OPERATE ANY CITY VALVES; THESE WILL BE OPERATED BY CITY PERSONNEL ONLY.
- 7. FOR AID IN UTILITY LOCATION, CALL 811 A MINIMUM OF 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING CONSTRUCTION. EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION, SO AS TO AVOID DAMAGE OR DISTURBANCE, AND THE DEVELOPER SHALL ASSUME ALL RESPONSIBILITY AND COSTS ASSOCIATED THEREWITH TO PROTECT, MAINTAIN AND REPAIR, WHERE NECESSARY.
- 8. WATER LINE CONSTRUCTION WITHIN THE PROPOSED DEVELOPMENT SHALL NOT COMMENCE UNTIL THE STREET HAS BEEN BROUGHT TO SUB-GRADE, MEETING CITY APPROVAL.
- 9. WATER MAIN SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION, WITH 25 FOOT STAKES ON CURVES. LOT CORNERS STAKES SHALL ALSO BE IN PLACE PRIOR TO CONSTRUCTION.
- 10. PIPE SHALL BE C-900 PVC CONFORMING TO AWWA STANDARDS. WHERE SYSTEM PRESSURES EXCEED 150 PSI PIPE SHALL BE PRESSURE CLASS 350 DUCTILE IRON PIPE MEETING AWWA STANDARDS. ALL FITTINGS SHALL BE AWWA, CEMENT LINED, DUCTILE IRON, AND EITHER MECHANICAL JOIN (MJ) OR FLANGED (FL), AS INDICATED HEREIN. ALL PIPE TO BE PURCHASED AND INSTALLED AS A PART OF THE DEVELOPER'S WATER SYSTEM SHALL BE DELIVERED TO THE JOB SITE WITH WATER TIGHT WRAPPING OR PIPE PLUGS. PLUGS AND/OR WRAPPING SHALL REMAIN IN PLACE UNTIL THE PIPE IS INSTALLED IN THE TRENCH.
- 11. UNLESS OTHERWISE SPECIFIED, VALVE 12 INCH AND SMALLER SHALL BE DUCTILE IRON, RESILIENT SEATED GATES VALVES MEETING AWWA STANDARDS. ACCEPTABLE VALVES ARE KENNEDY, M&H, MULEER, CLOW OR APPROVED EQUAL. VALVES LARGER THAN 12 INCHES SHALL BE DUCTILE IRON BUTTERFLY VALVES. ACCEPTABLE VALVES ARE PRATT GROUNDHOG, DRESSER 450 OR APPROVED EQUAL.
- 12. ALL BOLTS ON WATER WORKS FITTINGS SHALL BE COATED WITH ARMITE ANTI-SEIZE COMPOUND NO. 609, OR APPROVED EQUAL, PRIOR TO INSTALLATION. ALL WATER WORKS FITTINGS AND BOLTED ASSEMBLIES SHALL BE COMPLETELY COVERED WITH MINIMUM 4 MIL. VISQUEEN PLASTIC. THE ENDS OF THE PLASTIC SHALL BE TAPED TO SECURE THEM TO THE PIPE.
- 13. HYDRANTS SHALL BE KENNEDY K81, M&H 929 OR APPROVED EQUAL MEETING AWWA STANDARDS. HYDRANTS SHALL BE FURNISHED WITH THREADED OUTLETS MEETING FIRE DEPARTMENT/DISTRICT STANDARDS. BOTH THRUST BLOCKING AND EITHER MEGA LUG OR ROMA GRIP RESTRAINTS ARE REQUIRED ON EACH HYDRANT INSTALLATION. HYDRANT PUMPER PORTS SHALL HAVE 4 1/2" NST THREADS AND BE EQUIPPED WITH A 5 INCH STORZ ADAPTER. ALL HYDRANTS SHALL BE PAINTED WITH TWO COATS OF PRESERVATIVE PAINTS "SAFETY YELLOW" OR APPROVED EQUAL.
- 14. PROVIDE THRUST BLOCKING AND/OR RESTRAINED JOINTS AT ALL FITTINGS, BENDS AND UP-THRUST FITTINGS, IN ACCORDANCE WITH CITY CONSTRUCTION STANDARDS AND SPECIFICATIONS.
- 15. ALL NEW CONNECTIONS TO THE EXISTING WATER SYSTEM SHALL BE IN STRICT CONFORMANCE WITH THE APPROPRIATE SUBSECTIONS OF THE SPECIFICATIONS OF THE CITY. NO MORE THAN ONE CONNECTION SHALL BE MADE BETWEEN THE NEW MAIN(S) AND THE EXISTING MAIN(S) UNTIL THE NEW PIPING HAS BEEN FLUSHED, DISINFECTED, PRESSURE TESTED AND RECEIVED SATISFACTORY BACTERIOLOGICAL TEST RESULT.
- 16. INDIVIDUAL WATER SERVICES TO THE PROPERTY LINE SHALL BE 1" DIAMETER MINIMUM SIZE AND BE INSTALLED WITH 36" MINIMUM COVER.
- 17. RESIDENTIAL FIRE SPRINKLER SYSTEMS SHALL HAVE A MINIMUM 1 INCH METER/SERVICE. BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED ON ALL RESIDENTIAL FIRE SPRINKLER SYSTEMS AND LOCATED IMMEDIATELY BEHIND THE WATER METER/SERVICE ON THE PROPERTY SIDE.
- 18. FIRE LINE SERVICES SHALL HAVE A DOUBLE CHECK DETECTOR BACKFLOW PREVENTION ASSEMBLY INSTALLED IN A UTILITY VAULT AND THE ROW/PROPERTY LINE WITH A 6 INCH PVC GRAVITY DRAIN TO STORM. FIRE LINE SERVICE SHALL TERMINATE. IN THE STRUCTURE TO BE SERVED. WITH THE CITY'S RISER DETAIL.
- 19. ALL COMMERCIAL MULTI-FAMILY, INDUSTRIAL AND IRRIGATION SERVICES SHALL INCLUDE A DOH APPROVED BACKFLOW PREVENTION ASSEMBLY LOCATED IMMEDIATELY BEHIND AND ON THE PROPERTY SIDE OF THE WATER METER/SERVICE, ALTERNATE LOCATIONS MAY BE ACCEPTABLE UPON APPROVAL BY THE CITY, STRUCTURES REQUIRING FIRE SPRINKLER SYSTEMS SHALL HAVE AT LEAST ONE BACKFLOW PREVENTION ASSEMBLY PER EACH STRUCTURE. PROTECTING THE POTABLE WATER SYSTEM FROM THE FIRE SYSTEM. THE BACKFLOW PREVENTION ASSEMBLY SHALL BE LOCATED IN A FLOOD PROOF VAULT OR SERVICE BOX, DEPENDING ON SIZE, OUTSIDE THE STRUCTURE IN A LOCATION APPROVED BY THE CITY.
- 20. WHERE ROAD GRADES ARE ESTABLISHED, PROVIDE A MINIMUM OF 48 INCHES OF COVER OVER 12 INCH OR LATER WATER MAINS, AND PROVIDE A MINIMUM OF 42 INCHES OF COVER OVER 8 INCH MAINS; OR ADDITIONAL DEPTH AS REQUIRED TO MISS OTHER UTILITIES.
- 21. WATER MAINS CONSTRUCTED WITHIN EASEMENTS OR PRIVATE ROADS SHALL BE INSTALLED WITH POLYETHYLENE ENCASEMENT (DI PIPE), RESTRAINED JOINTS AND WITH A 5'-0" MINIMUM COVER. DURING BACKFILL OPERATIONS, FURNISH AND INSTALL 3 INCH WIDE METALLIC MARKER TAPE OVER THE WATER MAIN WITH 3 FEET OF COVER.
- 22. MINIMUM RADIUS FOR 12 INCH AND SMALLER PIPELINES CONSTRUCTED ON CURVES IS 258 FEET (4 DEGREES DEFLECTION PER JOINT).
- 23. COMPACTION: ALL TRENCH BACKFILL AND ROADWAY EMBANKMENT SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR DRY MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557, EXCEPT THE TOP 6 INCHES IN PAVED AREAS, WHICH SHALL BE 100%. CDF SHALL BE REQUIRED FOR ANY ROADWAY CROSSINGS.
- 24. CONSTRUCTION INSPECTION WILL BE DONE BY THE CITY AND/OR THEIR DESIGNATED ENGINEER. NO NEW FACILITIES WILL BE ACCEPTED BY THE CITY IF PROPER INSPECTIONS HAVE NOT BEEN COMPLETED.
- 25. THE WATER MAIN CONSTRUCTION PHASE WILL NOT BE CONSIDERED COMPLETE UNTIL THE INSTALLATION IS ACCEPTABLE TO THE CITY INCLUDING A SATISFACTORY HYDROSTATIC PRESSURE TEST. A SATISFACTORY DISINFECTION TEST, SATISFACTORY FLOW OF SERVICE LINES AND COMPLETION OF ALL ITEMS ON THE INSPECTOR'S PUNCH LIST.
- 26. WATER SERVICE IS AVAILABLE ONLY AFTER TRANSFER OF OWNERSHIP TO THE CITY AND PAYMENT OF ALL CURRENT APPLICABLE FEES.

SANITARY AND STORM NOTES:

- PROGRESS.
- SPECIFICATIONS.
- TO THE START OF CONSTRUCTION.
- WORK.
- REPAIR, WHERE NECESSARY.
- SUPPLYING PROPER QUANTITIES OF MATERIALS.
- FOR MANHOLE COVERS.

- ABOVE THE PIPE BARREL.

- ONE WITHIN THE PRIVATE PROPERTY.
- WORKS DEPARTMENT OF THE CITY OR COUNTY.

- CURRENT APPLICABLE FEES.

REMOVAL OF STRUCTURES AND OBSTRUCTIONS NOTES:

- REQUIRED BY THE MUTCD OR AS APPROVED BY CITY PW.
- REPLACEMENTS
- "ROADWAY EXCAVATION".
- COVERS TO THE SATISFACTION OF THE ENGINEER.

1. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE DEVELOPER SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH THE CITY. THE DEVELOPER, CONTRACTOR AND PROPOSED ON SITE SUPERVISOR SHALL ATTEND. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION, INCLUDING ADDENDA AND UPDATES, OF THE CITY OF WHITE SALMON CONSTRUCTION STANDARD SPECIFICATIONS AND DETAILS. CONTRACTOR TO HAVE CITY STANDARDS AND SPECIFICATIONS ON JOB SITE AT ALL TIMES WHILE CONSTRUCTION IS IN PROGRESS.

2. A CITY APPROVED SIGNED COPY OF THE PLANS SHALL BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN

3. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY, THE PROJECT SPECIFICATIONS AND THE MOST RECENT ADDITION OF THE APWA STANDARDS AND

4. WORK SHALL NOT COMMENCE UNTIL APPROVAL IS RECEIVED FROM THE STATE DEPARTMENT OF ECOLOGY, UNLESS THE REVIEW AND APPROVAL IS WAIVED BY ECOLOGY.

5. FRONT PROPERTY CORNERS SHALL BE SET BY A LAND SURVEYOR LICENSED IN THE STATE OF WASHINGTON PRIOR

6. NOTIFY THE CITY 72 HOURS (3 WORKING DAYS) PRIOR TO BEGINNING CONSTRUCTION AND FOR ANY RESTARTS OF

7. FOR AID IN UTILITY LOCATION, CALL 811 A MINIMUM OF 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING OF CONSTRUCTION. EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE LOCATED PRIOR TO CONSTRUCTION SO AS TO AVOID DAMAGE OR DISTURBANCE, AND THE DEVELOPER SHALL ASSUME ALL RESPONSIBILITY AND COSTS CONNECTED THEREWITH TO PROTECT, MAINTAIN AND

8. PIPE LENGTHS, MANHOLE DEPTHS, ETC., AS SHOWN ARE APPROXIMATE. DEVELOPER IS RESPONSIBLE FOR

9. PROVIDE THE CITY'S INSPECTOR WITH A COPY OF ALL CUT SHEETS PRIOR TO CONSTRUCTION.

10. PERMANENT ACCESS FOR CITY SERVICE VEHICLES SHALL BE PROVIDED AT ALL MANHOLES. MANHOLES SHALL BE CONSTRUCTED AS PER CITY STANDARD DETAILS, INCLUDING CONSTRUCTION OF CHANNELS. WHERE INDICATED, PROVIDE KNOCK-OUTS AND CHANNELIZATION FOR SIDE SEWER OR FUTURE MAINLINE EXTENSIONS; AND FOR PVC PIPE, PROVIDE A WATERTIGHT FLEXIBLE RUBBER BOOT OR HEAVY DUTY SAND COLLAR. PROVIDE LOCKING LIDS

11. CONNECTION TO THE EXISTING MAIN SHALL BE DONE SO AS TO PREVENT ANY FOREIGN MATERIALS FROM ENTERING EXISTING SEWERS. EXISTING PIPE IN SADDLE MANHOLE INSTALLATIONS SHALL NOT BE CUT OR REMOVED UNTIL INSTRUCTED TO DO SO BY THE CITY. COUPONS FROM ALL TAPS SHALL BE PROVIDED TO THE CITY.

12. CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY UTILIZATION OF A CONCRETE CORE-DRILLING MACHINE OF ADEQUATE DIAMETER TO GROUT IN PLACE AN ADAPTER IF PVC SEWER LINES ARE INSTALLED. ALIGN CORE-DRILLING MACHINE TO PROVIDE A MINIMUM 0.10 FOOT DROP ACROSS THE MANHOLE.

13. PVC PIPE SHALL BE SDR-35 ASTM D3034 FURNISHED IN 13 FOOT MAXIMUM LENGTHS AND SHALL BE FULLY ENCASED WITH PEA GRAVEL OR ³/₄ INCH CRUSHED SURFACING MATERIAL EXTENDING FROM 4INCHES BELOW TO 12 INCHES

14. DI SANITARY SEWER PIPE SHALL CONFORM TO AWWA C151 AND SHALL BE POLYETHYLENE OR EPOXY LINED. RESTRAINED JOINT PIPE. THE DI PIPE SHALL BE CLASS 52 UNLESS OTHERWISE APPROVED.

15. SEWERS TO BE LOCATED BELOW POTABLE WATER LINES, WITH 18 INCHES OF VERTICAL SEPARATION AND WITH A MINIMUM OF 10 FOOT HORIZONTAL SEPARATION FROM PARALLEL WATER LINES. CROSSING ANGLES SHALL BE 45 DEGREES OR GREATER. UNUSUAL OR SPECIAL CONDITIONS ARE ADDRESSED IN ACCORDANCE WITH THE DEPARTMENT OF ECOLOGY AND DEPARTMENT OF HEALTH CRITERIA.

16. SIDE SEWERS SHALL BE A MINIMUM OF 6 INCHES IN DIAMETER AND SHALL HAVE A MINIMUM SLOPE OF 2%. SIDE SEWER SHALL INCLUDE TWO 6 INCH TEES AT THE PROPERTY LINE: ONE WITHIN THE PUBLIC RIGHT-OF-WAY AND

17. ALL SEWER LINES SHALL BE CLEANED AND TESTED IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS.

18. THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND/OR REPAIRING ASPHALT AND GRAVEL SURFACE DISTURBED AS A RESULT OF THEIR CONSTRUCTION UNTIL THEY ARE ACCEPTED BY THE PUBLIC

19. COMPACTION: ALL TRENCH BACKFILL AND ROADWAY EMBANKMENT SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR DRY MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557. EXCEPT THE TOP 6 INCHES IN PAVED AREAS WHICH SHALL BE 100%. CDF SHALL BE REQUIRED FOR ANY ROADWAY CROSSINGS.

20. MANHOLE COVERS LOCATED IN ASPHALT AREAS SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO PAVING.

21. NO UTILITY FACILITIES WILL BE ACCEPTED BY THE CITY IF PROPER INSPECTIONS HAVE NOT BEEN COMPLETED.

22. SEWER SERVICE IS AVAILABLE ONLY AFTER TRANSFER OF OWNERSHIP TO THE CITY AND AFTER PAYMENT OF ALL

WHEN NECESSARY FOR WORK TO PROCEED, REMOVE, PROTECT AND REPLACE ALL EXISTING SIGNS, SIGN SUPPORTS AND SIGN BASES ACCORDING TO CITY STANDARD. UNLESS OTHERWISE APPROVED CORE DRILL HOLES INTO NEW SIDEWALKS AND GROUT NEW 2-1/2" SCHEDULE 40 GALVANIZED PIPE STUBS (MIN LENGTH OF 6-INCH) INTO HOLES FOR NEW OR REPLACEMENT SIGNS AT LOCATIONS DIRECTED BY CITY PUBLIC WORKS (PW). REPLACE ALL NON-STANDARD OR WOODEN SUPPORTS WITH 2" SCHEDULE 40 GALVANIZED PIPE; HEIGHT AS

PROVIDE TO THE CITY AN APPROVED INVENTORY OF ALL EXISTING SIGNS, STRUCTURES AND OBSTRUCTIONS THAT WILL BE REPLACED; CLEARLY INDICATE ORIGINAL LOCATION OF ALL ITEMS TO BE REPLACED. THE CONTRACTOR SHALL BE RESPONSIBLE TO STORE ALL REMOVED SIGNS, STRUCTURES AND OBSTRUCTION OFF-SIGHT AT A SECURE LOCATION CONTROLLED BY THE CONTRACTOR. REMOVED ITEMS WILL NOT BE STORED AT CITY PUBLIC WORKS. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIGNAGE AS REQUIRED WHEN PERMANENT SIGNS ARE STORED. CONTRACTOR SHALL NOT DISRUPT MAIL OR NEWSPAPER SERVICES AND SHALL BE RESPONSIBLE TO COORDINATE WITH LOCAL MAIL OR NEWSPAPER SERVICE PROVIDERS AS REQUIRES TO INSURE CONTINUATION OF ALL SUCH SERVICES. PROVIDE TEMPORARY TRASH RECEPTACLES IF EXISTING RECEPTACLES HAVE BEEN REMOVED FOR CONSTRUCTION.

3. REPLACE ALL DAMAGED OR MISSING STRUCTURES AND OBSTRUCTIONS AT NO ADDITIONAL COST TO THE CITY WITH APPROVED

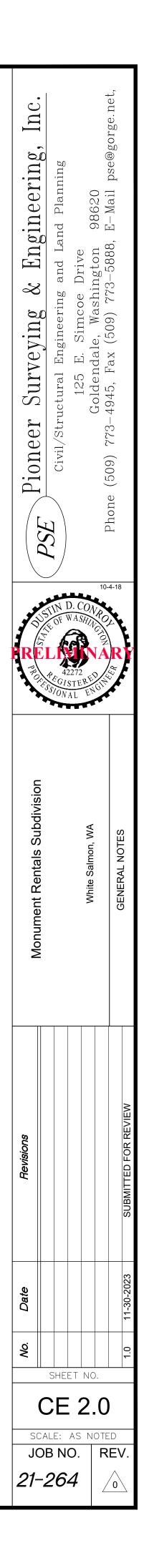
PROVIDE ALL LABOR TO ADJUST TO FINISH GRADE ALL WATER METER LIDS. CLEAN-OUTS, GRATES, PLATES, AND OTHER POURED-IN-PLACE STRUCTURES FOR A SMOOTH AND FLUSH FINISH GRADE. IF ITEMS ARE DAMAGED OR LOST DURING CONSTRUCTION, REPLACE AT NO EXPENSE TO THE CITY. FOR NEW DRIVEWAYS OR SIDEWALKS, RELOCATE EXISTING WATER SERVICES OR OTHER ITEMS TO LOCATIONS APPROVED BY THE CITY; PROVIDE ALL LABOR AND MATERIALS FOR THIS EFFORT UNLESS OTHERWISE APPROVED BY THE ENGINEER.

REFER TO WSDOT SPECIFICATIONS AND PROJECT SPECIAL PROVISION SECTION 2-02 REMOVAL OF STRUCTURES AND OBSTRUCTIONS FOR ADDITIONAL REQUIREMENTS AND PAYMENT INFORMATION. ALL REMOVAL OF ASPHALT, CONCRETE, AND CURBS SHALL BE PAID UNDER

6. CONTRACTOR TO PROVIDE ALL LABOR TO RELOCATE EXISTING CITY WATER AND SERVICE CLEANOUTS, WATER METER BOXES, AND VALVE

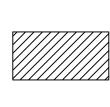
7. CITY WILL PROVIDE NEW WATER METER BOXES WHERE INDICATED AND AS DETERMINED DURING THE PRE-CONSTRUCTION MEETING. OTHERWISE CONTRACTOR SHALL PRESERVE BOXES AND RELOCATE ACCORDINGLY. CONTRACTOR SHALL REPLACE WATER METERS BROKEN DURING THE COURSE OF THEIR WORK AT NO ADDITIONAL COST.

8. CITY SHALL BE RESPONSIBLE TO TURN OFF ALL VALVES WHEN NECESSARY. CONTRACTOR MUST COORDINATE SHUT-OFF WITH CITY.



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OPEN SPACE

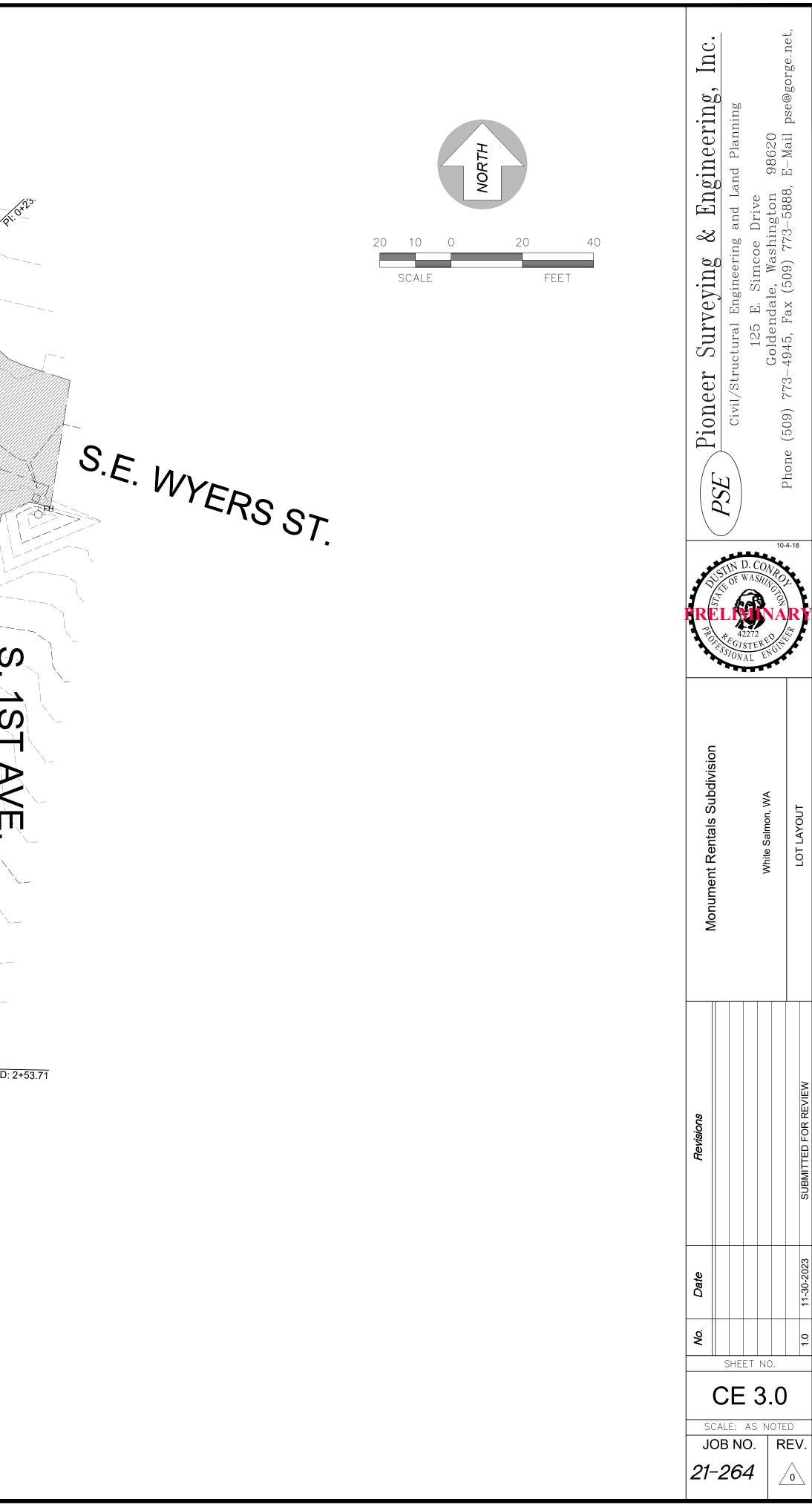


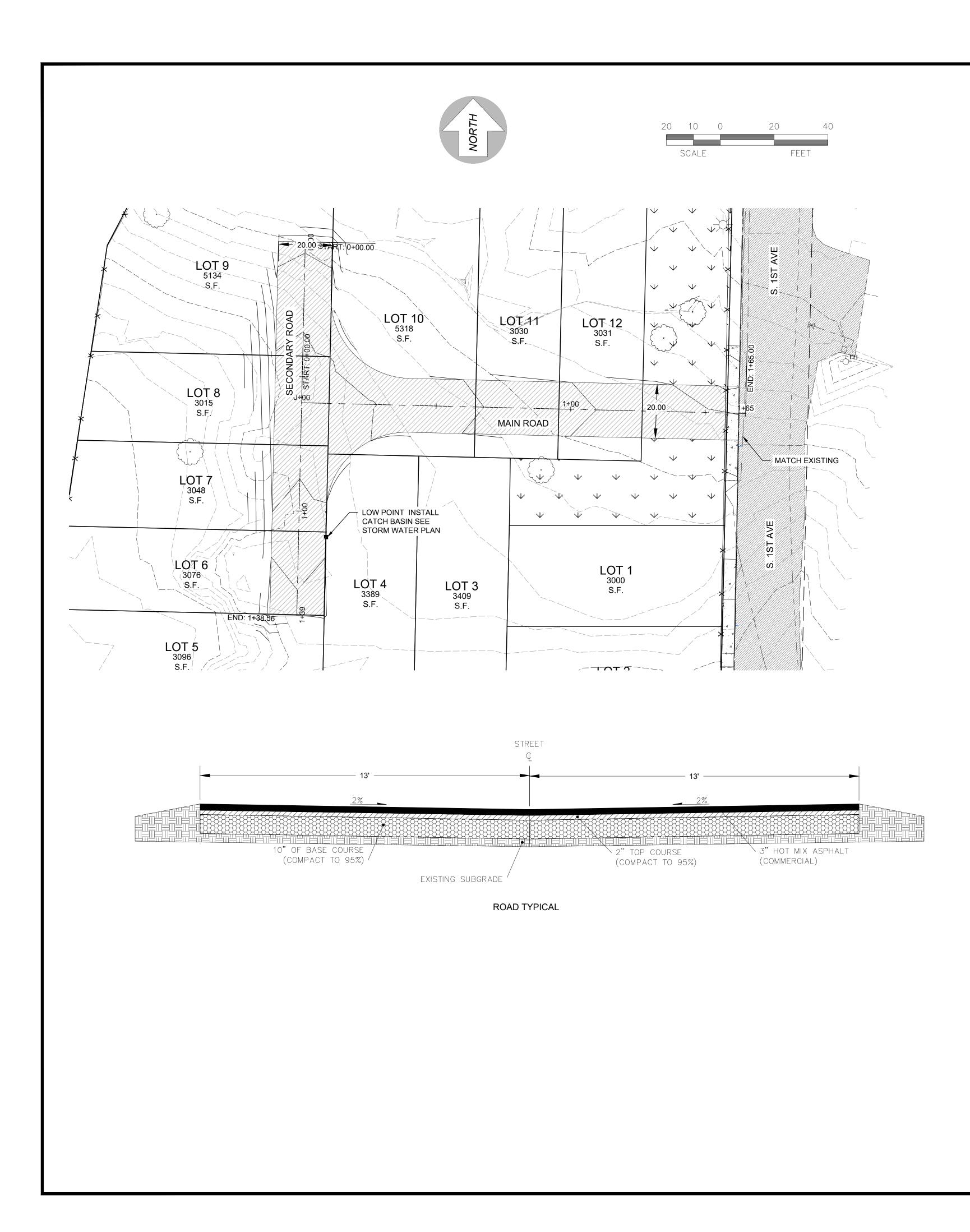


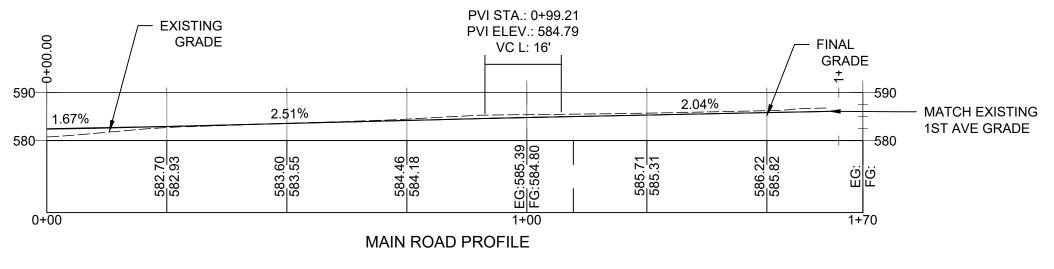
SIDEWALK

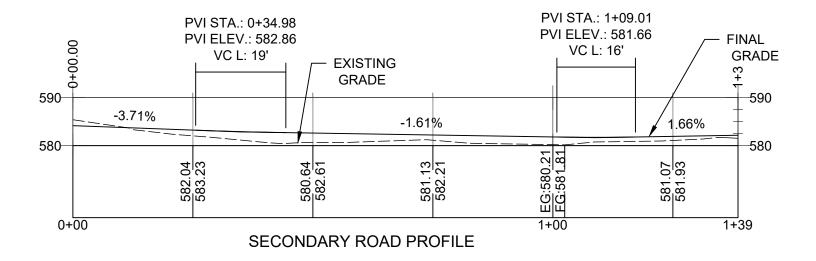
PRIVATE ROAD











ROADWAY CONSTRUCTION NOTES:

- FORWARDED TO THE CITY OF W.S. AND THE PROJECT ENGINEER.
- TO BE TESTED USING THE A.A.S.H.T.O. T-180 TEST METHOD.
- AASHTO T-180 COMPACTION.
- ROLL OR GRADE CHECK INSPECTIONS.
- (95%) AS DETERMINED BY A.A.S.H.T.O. T-180 TEST METHOD.
- FROM THE ASPHALT PAVEMENT PLAN, UNLESS OTHERWISE INDICATED.
- CONTRACTOR SHALL SUBMIT TEST RESULTS TO THE ENGINEER.
- MINUS SUBGRADE. VERIFY ALL CUTS WITH PROJECT ENGINEER
- UNSUITABLE MATERIALS.

1. ENGINEERED FILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH APPLICABLE WSDOT AND CITY OF W.S. STANDARD SPECIFICATIONS. FOR FILL AREAS WITHIN ROADWAYS, AASHTO T-180 METHOD C SHALL BE USED. FOR FILL AREAS OUTSIDE OF ROADWAYS AASHTO T-180 OR T-99 METHOD B SHALL BE USED. ALL FILL PLACED SHALL BE VERIFIED BY GEOTECHNICAL TESTING. TEST RESULTS SHALL BE

2. MATERIALS IN SOFT SPOTS WITHIN THE ROADWAY SHALL BE REMOVED TO THE DEPTH REQUIRED TO PROVIDE A FIRM FOUNDATION AND SHALL BE BACKFILLED WITH 1-1/4 INCH MINUS CRUSHED ROCK.

3. ALL SUBGRADE TO BE PROOF ROLLED AND APPROVED BY THE PROJECT ENGINEER. SUBGRADE FILLS ARE

4. ALL TRENCH LINES, FILL AREAS AND BASE COURSE LOCATED IN THE RIGHT-OF-WAY SHALL MEET 95% OF

5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 24 HOURS PRIOR TO SUBGRADE PROOF

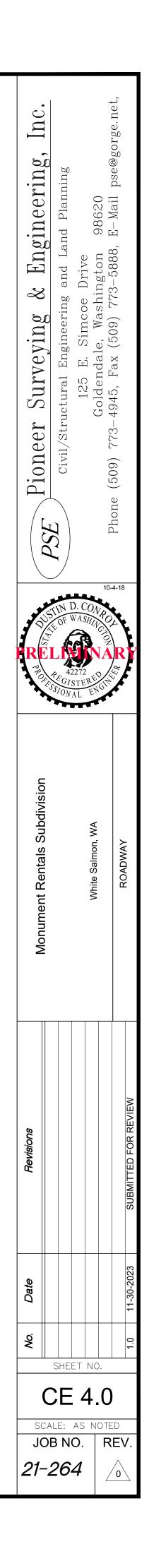
6. THE AGGREGATE ROAD BASE SHALL BE COMPACTED PER WSDOT STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT TEST RESULTS TO THE ENGINEER AND CITY INSPECTOR. MAXIMUM DENSITY

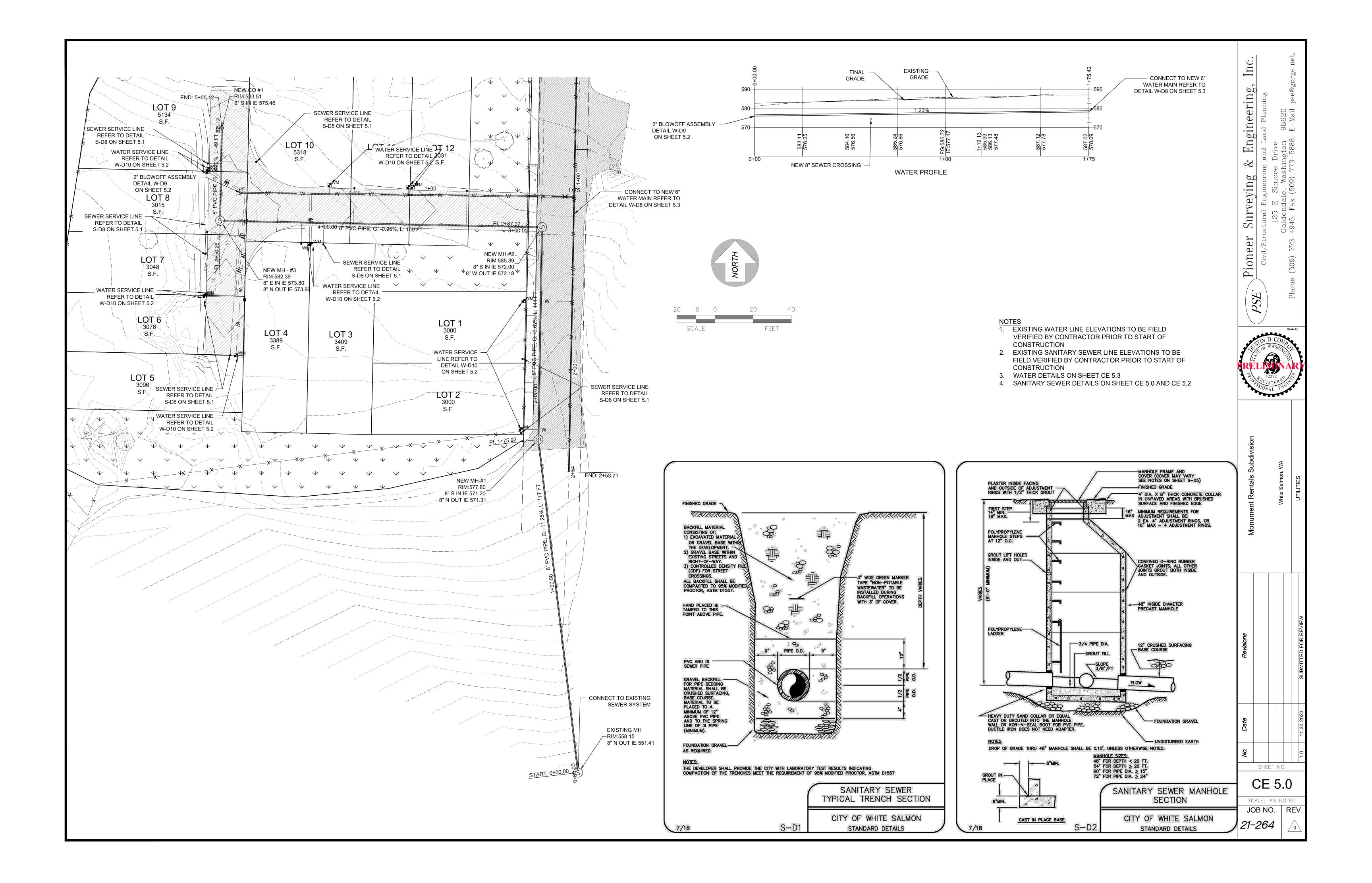
7. ASPHALT CONCRETE PAVEMENT MIX SHALL BE DESIGNED FROM A MIX FORMULA AS INDICATED IN THE SPECIAL PROVISIONS. CONTRACTOR TO PROVIDE THE ENGINEER WITH CERTIFICATE OF COMPLIANCE

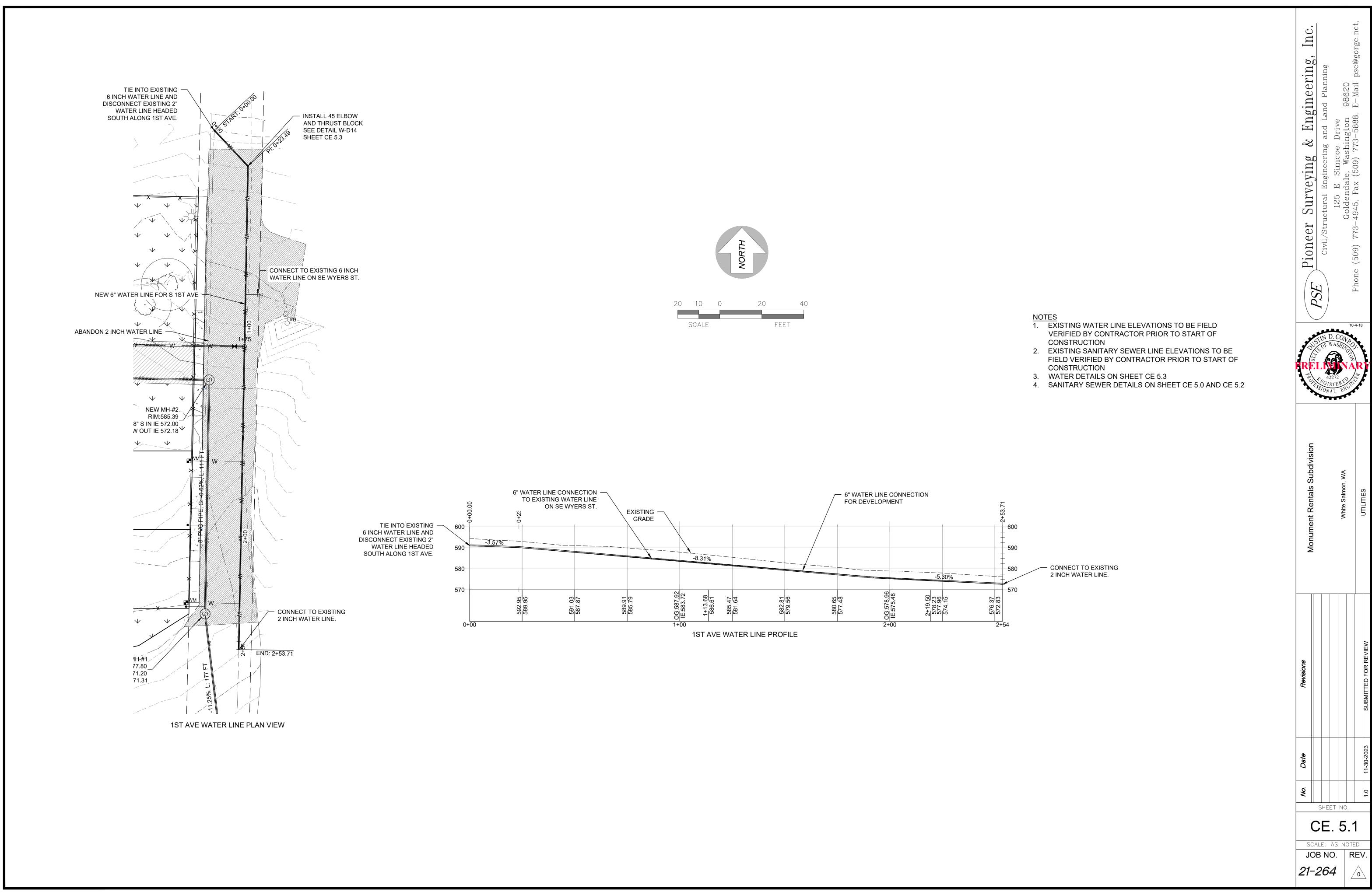
8. THE ASPHALT CONCRETE PAVEMENT MIX SHALL BE COMPACTED PER WSDOT STANDARD SPECIFICATIONS.

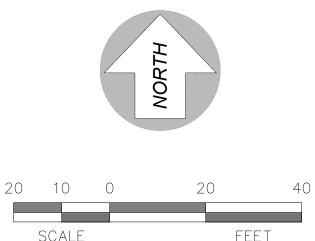
9. CUT AND REMOVE AT LEAST 2 FEET BEYOND ANY EXISTING ACP WHERE PATCHING OR JOINING OCCUR. INSURE THAT BUTT JOINTS TO EXISTING STREETS ARE SMOOTH AND AT LEAST 0.2' THICK AT JOINT. WHERE EXISTING SUBGRADE IS NOT AT LEAST 12 INCHES DEEP UNDER REMOVED ACP, ADD COMPACT, 1 $\frac{1}{4}$

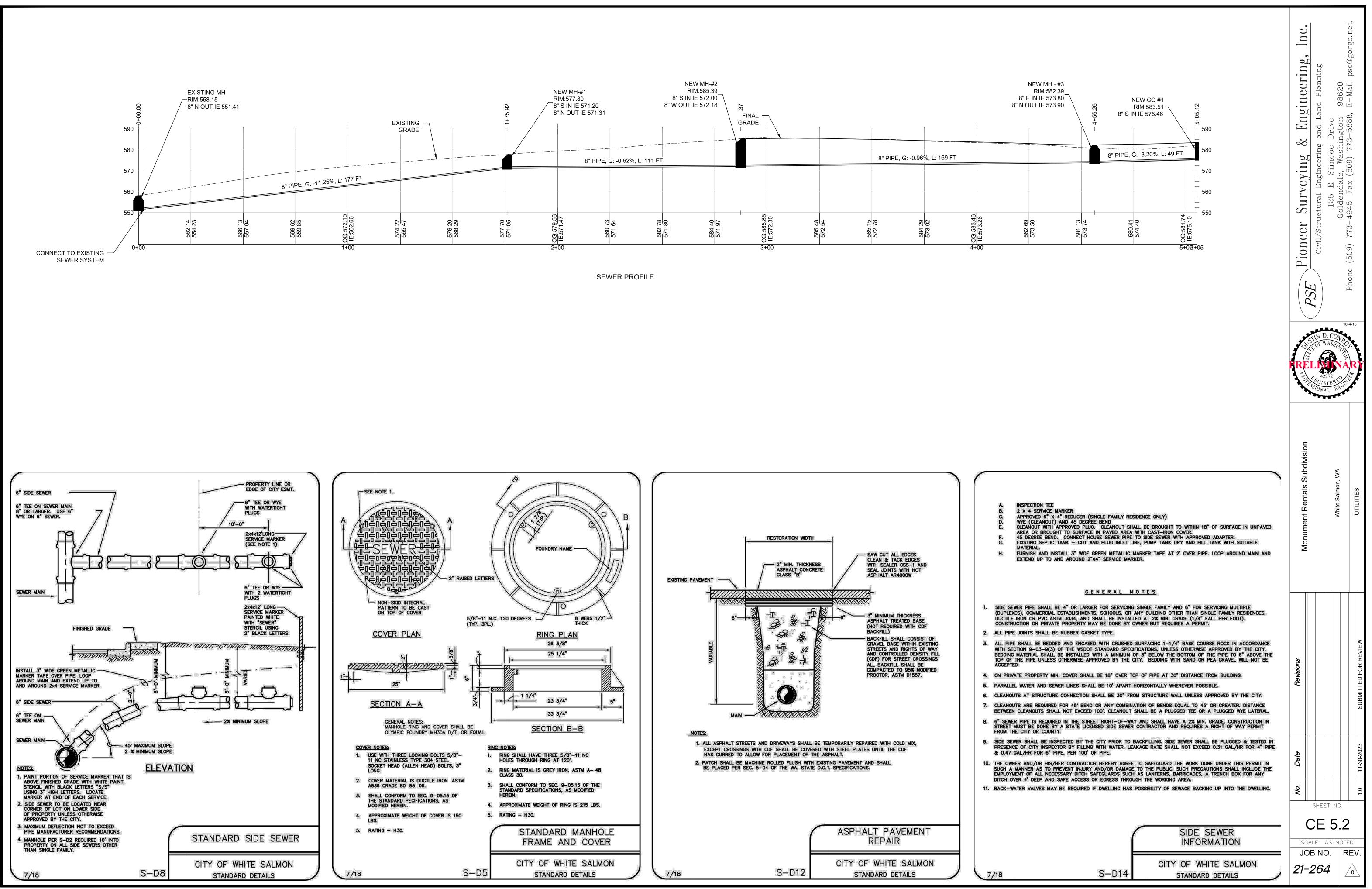
10. REMOVE AND LEGALLY DISPOSE OF ALL WASTE MATERIALS SUCH AS EXISTING CURB, ACP OR

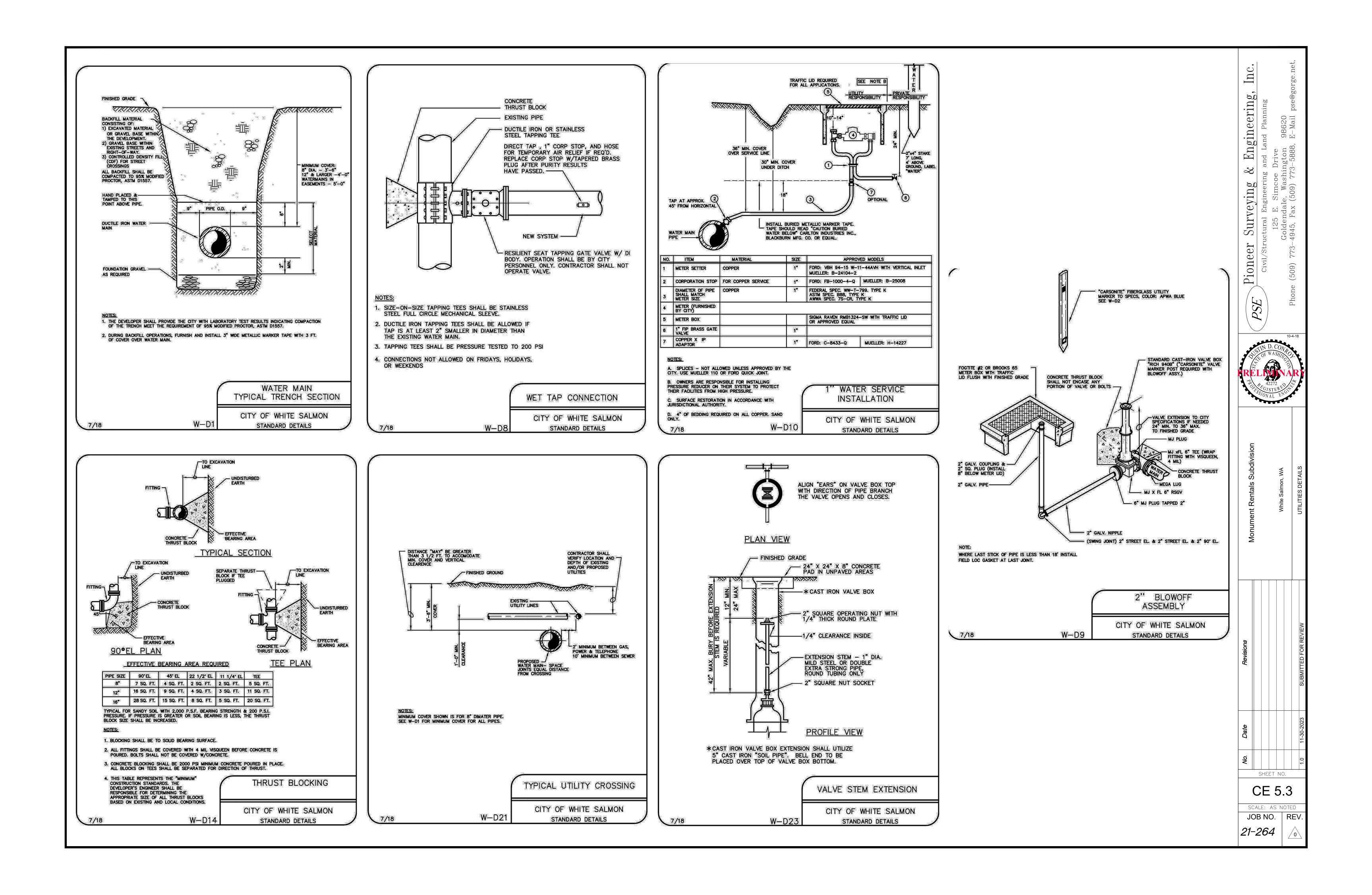


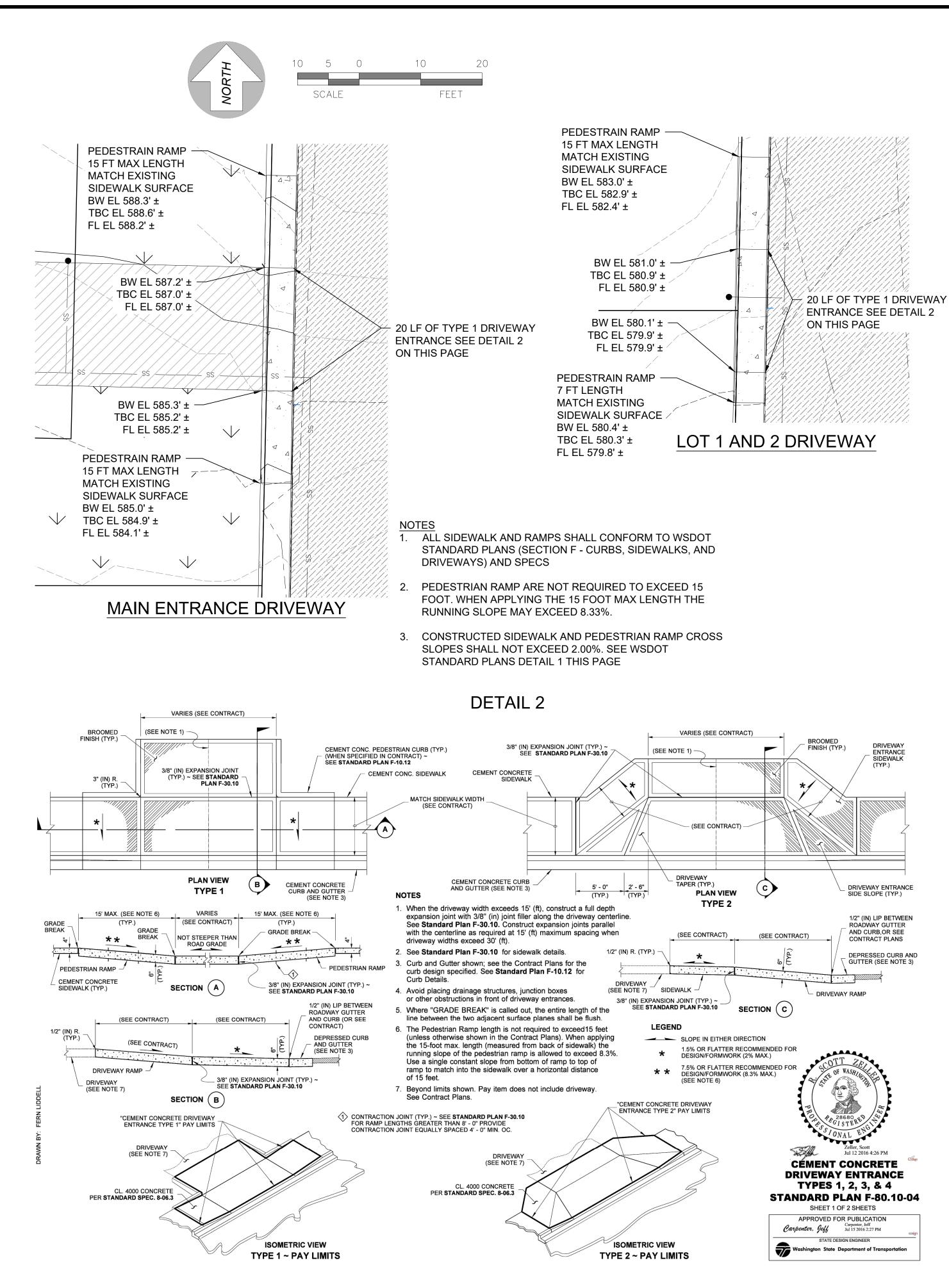


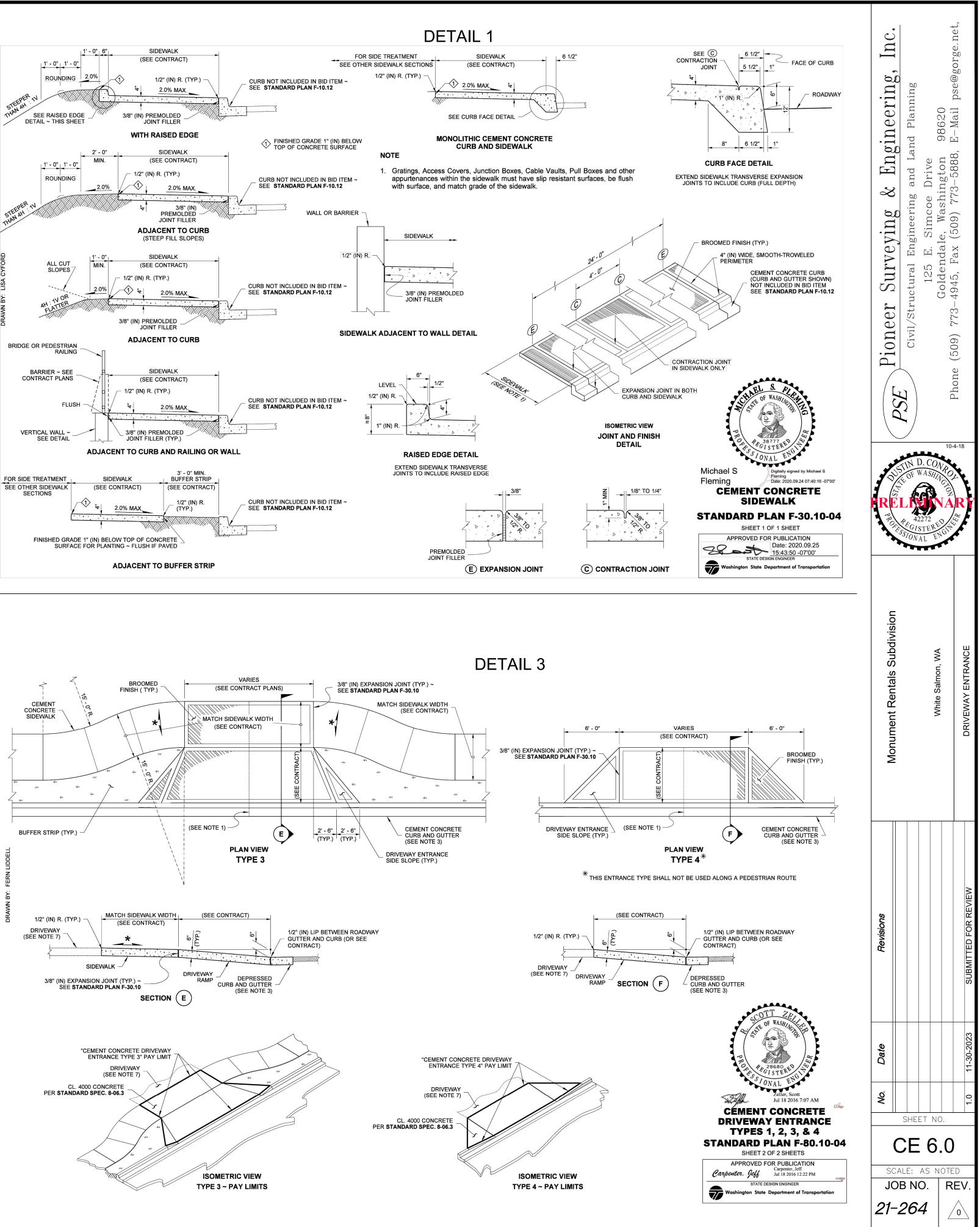


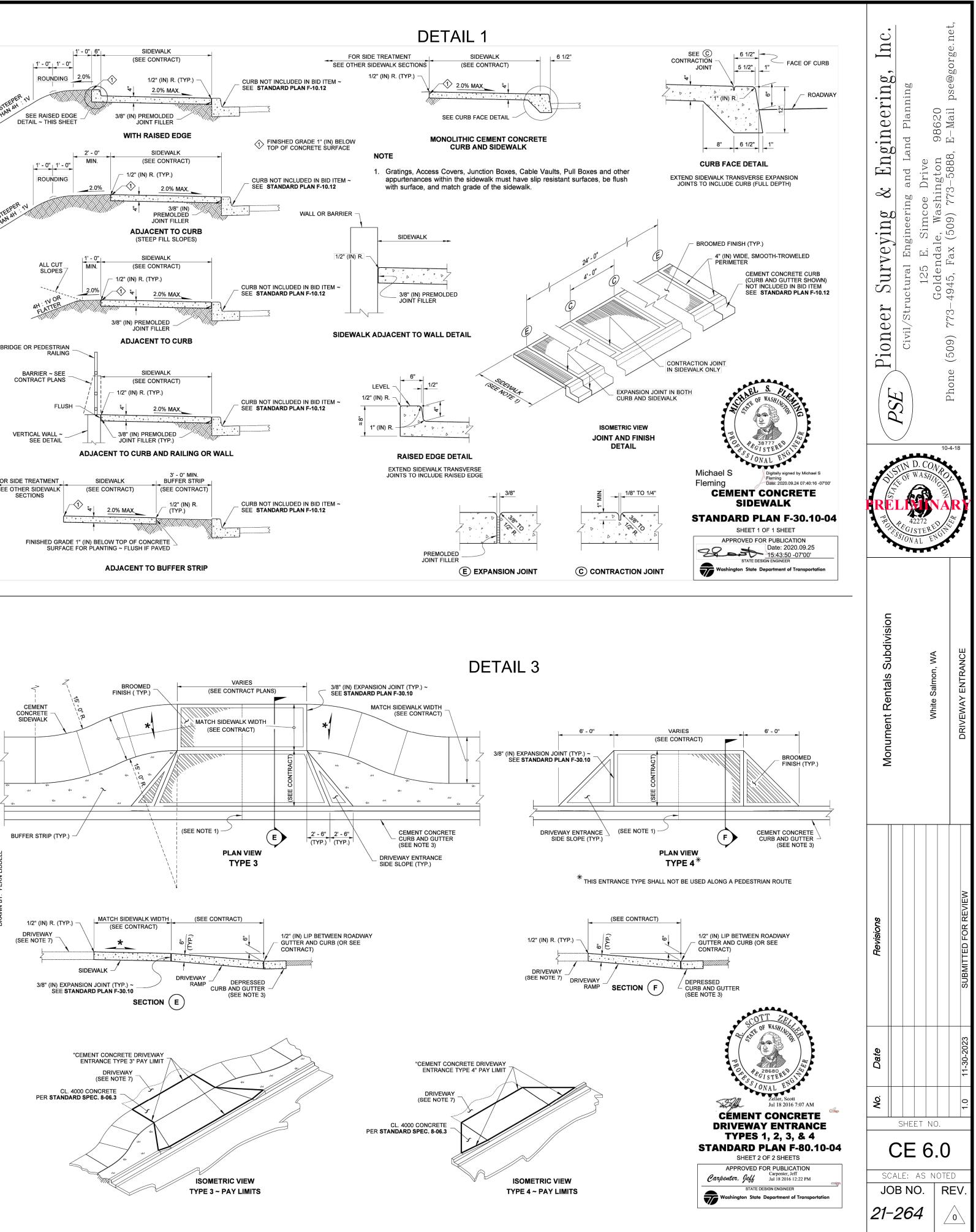


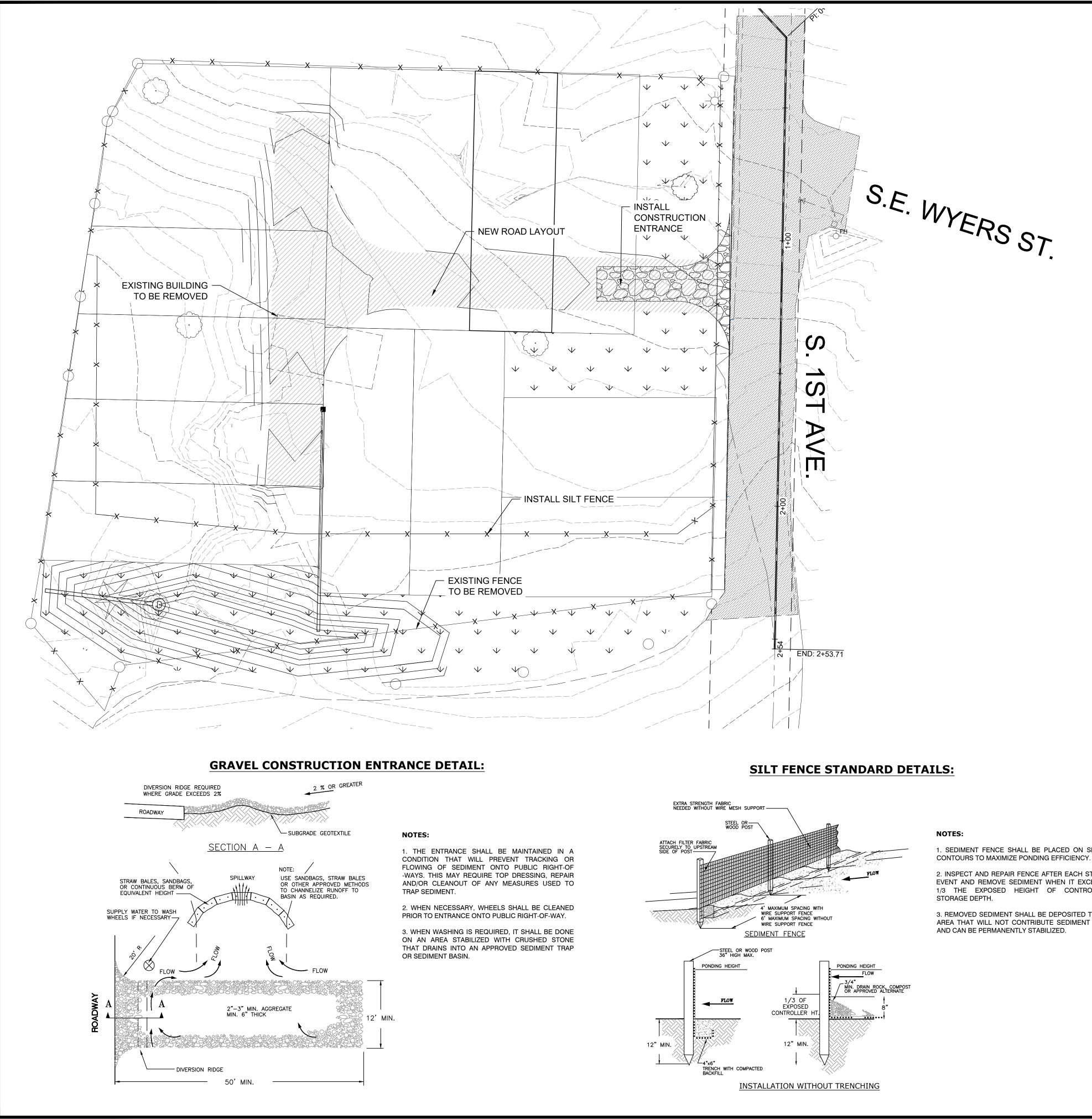












EROSION CONTROL NOTES:

1. CONTRACTORS AND BUILDERS SHALL KEEP CUTTING AND CLEARING TO A MINIMUM AND WITHIN THE PHASE UNDER CONSTRUCTION. EVERY EFFORT SHOULD BE MADE TO DISTURB AS LITTLE EXISTING VEGETATION AS POSSIBLE, AND TO REESTABLISH GOOD GROUND COVER AS SOON AS POSSIBLE AFTER GRADING.

2. SEEDING OF DISTURBED AREAS, SUCH AS CUTS, FILLS, AND STORAGE AREAS SHALL BE DONE AS SOON AS POSSIBLE AFTER USE OF THE AREA IS CONCLUDED, OR CONSTRUCTION IS FAR ENOUGH ALONG THAT THE AREA WILL NOT BE DISTURBED.

3. IF AN AREA IS NOT, OR CANNOT BE SEEDED ADEQUATELY TO PROTECT IT FROM EROSION, THEN IT SHALL BE PROTECTED BY COVERING WITH SOME PROTECTIVE MATERIAL, SUCH AS MULCH, STRAW, TARPS, PLASTIC AND CHIPPED BRUSH.

4. SILT FABRIC SHALL BE PLACED OVER THE CATCH BASIN INLETS SO THAT NO SEDIMENT WILL ACCUMULATE IN THE CATCH BASINS. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM.

5. WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (E.G. ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE). SEEDING OF CLEARED AREAS SHALL BE ACCOMPLISHED WITHIN SEVEN DAYS UNLESS OTHERWISE STABILIZED. TEMPORARY IRRIGATION MAY BE REQUIRED TO ESTABLISH AND MAINTAIN VEGETATION. ALL DISTURBED AREAS SHALL BE SEEDED.

6. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)

7. THE IMPLEMENTATION OF THESE ESC PLANS AND CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED, AND VEGETATION/LANDSCAPING IS ESTABLISHED.

8. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.

9. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.

11. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.

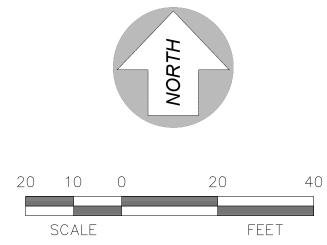
PROJECT.

13. WATER WILL BE USED AS NEEDED FOR DUST CONTROL DURING CONSTRUCTION ACTIVITIES.

1. SEDIMENT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

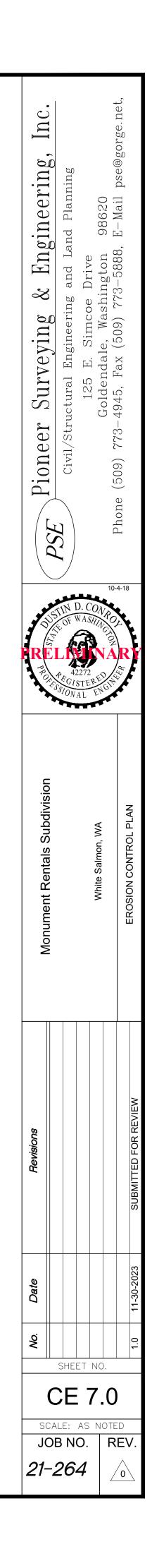
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN IT EXCEEDS 1/3 THE EXPOSED HEIGHT OF CONTROLLER

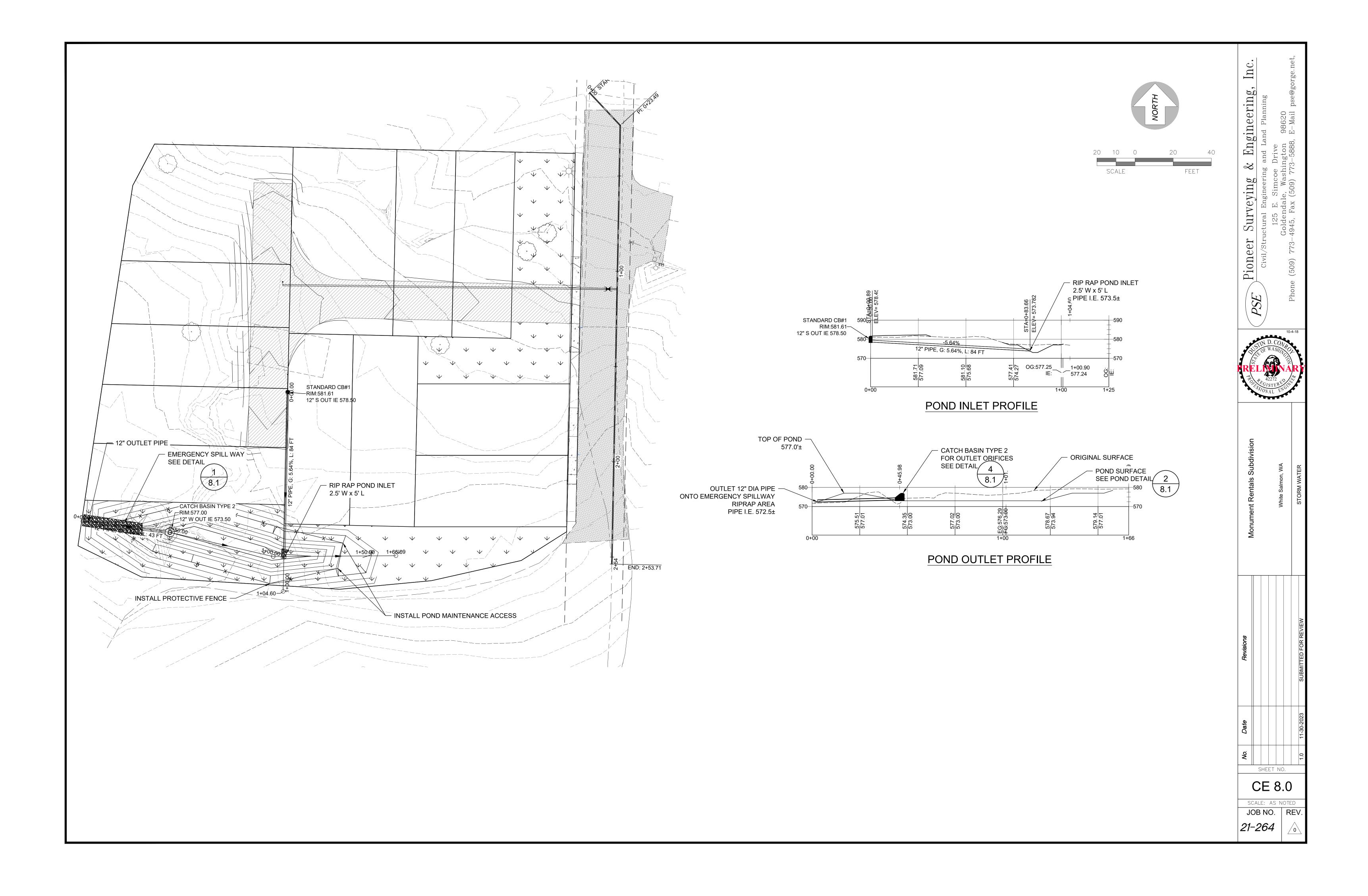
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-

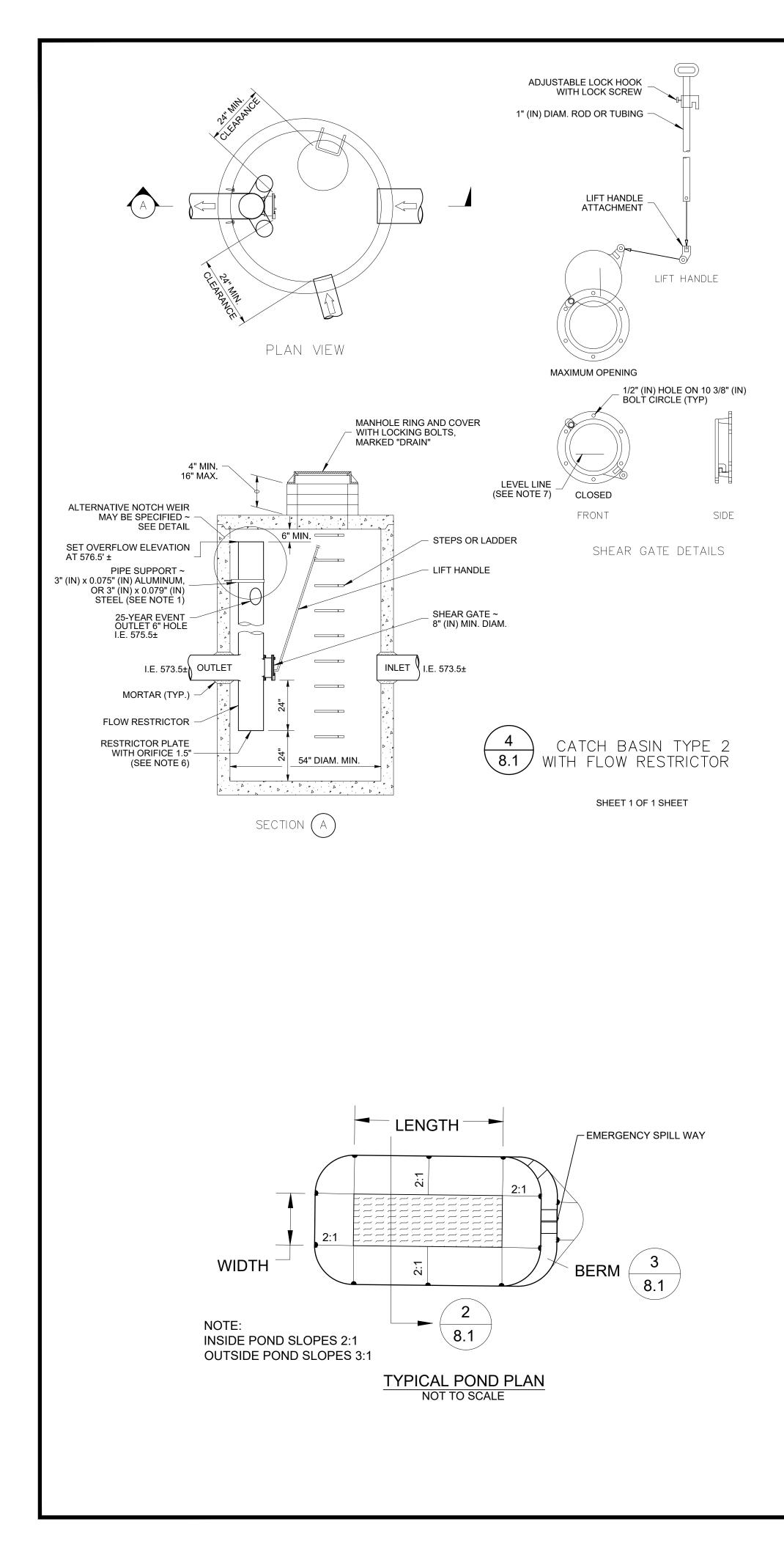


10. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.

12. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE







NOTES 1. The pipe supports and the flow restrictor shall be constructed of the same material and be anchored at a maximum spacing of 36" (in). Attach the pipe supports to the manhole with 5/8" (in) stainless steel expansion bolts or embed the supports into the manhole wall 2" (in). 2. The vertical riser stem of the flow restrictor shall be the same diameter as the horizontal outlet pipe with a minimum diameter of 12" (in). 3. The flow restrictor shall be fabricated from one of the following materials: 0.060" (in) Corrugated Aluminum Alloy Drain Pipe 0.064" (in) Corrugated Galvanized Steel Drain Pipe with Treatment 1 0.064" (in) Corrugated Aluminized Steel Drain Pipe 0.060" (in) Aluminum alloy flat sheet, in accordance with ASTM B 209, 5052 H32 or EPS High Density Polyethylene Storm Sewer Pipe 4. The frame and ladder or steps are to be offset so that: the shear gate is visible from the top; the climb-down space is clear of the riser and gate; the frame is clear of the curb. 5. The multi-orifice elbows may be located as shown, or all placed on one side of the riser to assure ladder clearance. The size of the elbows and their placement shall be specified in the Contract. 6. Restrictor plate with orifice as specified in the Contract. The opening is to be cut round and smooth. , The shear gate shall be made of aluminum alloy in accordance with ASTM B 26 and ASTM B 275 • designation ZG32Aor cast iron in accordance with ASTM A 48, Class.30B The lift handle shall be made of a similar metal to the gate (to prevent galvanic corrosion), it may be of solid rod or hollow tubing, with adjustable hook as required. A neoprene rubber gasket is required between the riser mounting flange and the gate flange. Install the gate so that the level-line mark is level when the gate is closed. The mating surfaces of the lid and the body shall be machined for proper fit. All shear gate bolts shall be stainless steel. 8. The shear gate maximum opening shall be controlled by limited hinge movement, a stop tab, or some other device. 9. Alternative shear gate designs are acceptable if material specifications are met.

