

## STORM DRAINAGE GENERAL NOTES

1. THE CONTRACTOR SHALL VIDEO INSPECT AND MANDREL ALL CONVEYANCE LINES WHERE POSSIBLE AND AT THE DIRECTION OF THE ENGINEER. PROVIDE VIDEOS AND REPORTS TO THE ENGINEER A MINIMUM OF 10 DAYS PRIOR TO PLACEMENT OF TOP LIFT OF PAVEMENT OR OTHER FINISHED SURFACES OTHER THAN LANDSCAPING. STORM DRAINS SHALL BE TESTED FOR DEFLECTION IN ACCORDANCE WITH DIVISION G01.03.11 AND VIDEO INSPECTED IN ACCORDANCE WITH DIVISION G01.03.12 OF THE WEST LNN STANDARD CONSTRUCTION SPECIFICATIONS. ALL TESTS SHALL BE WITNESSED BY THE ENGINEER AND A REPRESENTATIVE OF THE CITY.
2. ALL REQUESTS FOR ALTERNATIVE MATERIALS SHALL BE SUBMITTED TO THE ENGINEER AND THE CITY OF WEST LNN IN WRITING. THE ENGINEER MAY REQUIRE A MINIMUM OF 5 WORKING DAYS TO REVIEW AND COMMENT ON ALL SUCH REQUESTS.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY CONFLICTS WITH THESE PLANS IMMEDIATELY UPON DISCOVERY.
4. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL MEASURES TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE. ALL ADJACENT DOWNSTREAM STORM DRAIN INLETS SHALL BE PROTECTED FROM SILTATION BY INSTALLING AND MAINTAINING SILT SACKS IN EACH INLET. FAILURE TO COMPLY WITH ALL APPLICABLE EROSION CONTROL LAWS AND REQUIREMENTS MAY SUBJECT THE CONTRACTOR TO ANY ASSOCIATED FINES, OR DAMAGES, INCLUDING THOSE THAT MAY BE LEVIED THROUGH THE OWNER/DEVELOPER.
5. THE CONTRACTOR SHALL NOT ALLOW ANY WASHWATER OR DEBRIS TO ENTER NEW PIPES OR CHANNELS DURING CONSTRUCTION.
6. ALL PIPE BEDDING AND BACKFILL SHALL CONFORM TO THE CITY OF WEST LNN STANDARDS FOR WORK INSIDE THE CITY RIGHT OF WAY AND TO THE PROJECT TECHNICAL SPECIFICATIONS. U.P.C. STANDARDS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR WORK ON PRIVATE PROPERTY. GRANULAR BACKFILL (3/4" - 0") IS TO BE COMPACTED TO 95% MAXIMUM DRY DENSITY PER AASHTO T-180 TEST METHOD AND NATIVE MATERIAL SHALL BE COMPACTED TO 95% OF IN-PLACE DRY DENSITY OF SURROUNDING SOIL.
7. ALL MANHOLE AND CLEANOUT RIMS ARE APPROXIMATE, AND SHALL BE INSTALLED TO THE FINAL PAVEMENT GRADE. ALL ATTEMPTS SHALL BE MADE TO PREVENT PONDING OF WATER ON THE PAVEMENT. THE CONTRACTOR SHALL WASH THE ENTIRE PAVING AREAS AND REPAIR ANY POINTS OF PONDING PRIOR TO THE TOP LIFT OF PAVEMENT. CONTACT THE DESIGN ENGINEER IF A SOLUTION IS NOT APPARENT FOR PONDING IN THE PAVEMENT.
8. ALL CONNECTIONS NOT MADE AT MANHOLES OR CATCHBASINS SHALL USE A "WYE" FITTING. GUTTER INLETS SHALL BE POURED IN-PLACE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3300 PSL. FRAME SHALL BE FABRICATED OF STRUCTURAL STEEL, ASTM A-7, A-36, A373.
9. NO DRAINAGE PIPING OR PART THEREOF, WHICH IS CONSTRUCTED OF MATERIALS OTHER THAN THOSE APPROVED FOR USE UNDER OR WITHIN A BUILDING, SHALL BE INSTALLED UNDER OR WITHIN FIVE (5) FEET OF ANY BUILDING OR STRUCTURE, OR PART THEREOF AND NO LESS THAN ONE FOOT (1') BELOW THE SURFACE OF THE GROUND. THIS INCLUDES STRUCTURES SUCH AS PORCHES AND STEPS, WHETHER COVERED OR UNCOVERED, BREZZEWAYS, ROOFED PORTE-COCHERES, ROOFED PATIOS, GARPORTS, COVERED WALKS AND DRIVEWAYS, AND SIMILAR STRUCTURES OR APPURTENANCES.
10. ALL PUBLIC PIPE SHALL BE RIBBED PVC (ASTM D3034) OR CONCRETE. ALL PRIVATE PIPE SHALL BE PVC (ASTM D3034) OR CPE SMOOTH WALL INTERIOR/COORUGATED EXTERIOR (AASHTO M252) OR OTHER MATERIAL AS SELECTED BY CONTRACTOR FROM THE CITY OR UNIFORM PLUMBING CODE (U.P.C.) APPROVED LIST AND SUBJECT TO THE APPROVAL OF THE ENGINEER AND PLUMBING INSPECTOR. EIGHT INCH TO 24-INCH STORM DRAIN PIPE IS PREFERRED TO BE SEAMLESS RIBBED PVC PIPE CONFORMING TO ASTM F 794. WHERE LARGER PIPE IS REQUIRED OR LACK OF COVER PREVENTS USE OF RIBBED PVC PIPE, PIPE SHALL BE CLASS 3 NON-REINFORCED, CONCRETE PIPE CONFORMING TO ASTM C14. REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-76, CLASS IV, OR DUCTILE IRON PIPE CONFORMING TO AWWA C151 CLASS 52. RUBBER JOINTS ARE REQUIRED FOR ALL CONCRETE PIPE. SIX INCH AND SMALLER STORM DRAIN PIPE SHALL CONFORM TO ASTM D3034 PVC PIPE. STORM DRAIN SERVICE LATERALS SHALL BE 4" PIPE CONFORMING TO THE SAME SPECIFICATIONS AS THE STORM DRAIN MAIN LINES. SERVICE LATERALS SHALL BE INSTALLED TO A POINT BEYOND THE PROPERTY LINE OR UTILITY EASEMENT AS SHOWN ON THE PLAN. THE SERVICE LATERAL SHALL BE PLUGGED WITH A RUBBER RING PLUG WITH THE LOCATION OF THE LATERAL MARKED WITH A 2"x4" STAKE PAINTED WHITE.
11. CONCRETE BEAVER SLIDES REQUIRED ON ALL INSIDE DROP MANHOLES WITH TWO FEET OR LESS. NO FREE FALL PERMITTED.
12. MANHOLE BASE MAY BE POURED IN-PLACE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3300 PSI OR PRECAST. MANHOLE RISERS AND TOPS SHALL BE PRECAST SECTIONS WITH AT MINIMUM COMPRESSIVE STRENGTH OF 4000 PSL. TOPS SHALL BE ECCENTRIC CONES EXCEPT WHERE INSUFFICIENT HEADROOM REQUIRES FLAT TOPS. INTERIOR DIMENSIONS NOTED ON THE PLANS ARE MINIMUMS. SOME OR ALL OF THE STORM DRAIN MANHOLES REQUIRED WILL BE OVERSIZED MANHOLES. CONTRACTOR SHALL CHECK WITH MANHOLE MANUFACTURER FOR ACTUAL SIZE OF MANHOLE NEEDED FOR TYPE AND SIZE OF PIPE TO BE USED. INVERTS SHALL BE CONSTRUCTED SO AS TO PROVIDE SMOOTH FLOW THROUGH CHARACTERISTICS AND CHANNELS MUST BE ABLE TO PASS A 7"x30" CYLINDER INTO PIPES. PIPE SHALL BE CONNECTED TO MANHOLE BY MEANS OF A FLEXIBLE CONNECTIONS AND SHALL HAVE A SHEAR JOINT LOCATED 18" OUTSIDE OF THE MANHOLE.
13. ALL MANHOLES LOCATED IN EASEMENT AREAS REQUIRE TAMPER PROOF LIDS AND LID SHALL BE SET 12 INCHES ABOVE PROPOSED GRADE. CLEANOUT PIPE, FITTINGS AND JOINTS SHALL BE THE SAME SPECIFICATIONS AS FOR PIPE. CASTINGS ARE SHOWN ON DETAIL AND SHALL CONFORM TO ASTM A48 (GRADE 30). CLEANOUT RISER SHALL MATCH DOWNSTREAM PIPE DIAMETER.
14. RPPAP WHERE NOTED ON THE PLANS IS TO BE CLASS 50, 100 or 200 AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH OREGON STATE HIGHWAY DIVISION SPECIFICATION 714.
15. A PLUMBING PERMIT FROM THE CITY OF WEST LNN BUILDING DEPARTMENT IS REQUIRED FOR STORM DRAINS BEYOND THE FIRST CLEANOUT.
16. ALL MATERIALS, INSTALLATION, TESTS, AND INSPECTIONS TO BE IN STRICT ACCORDANCE WITH THE CITY OF WEST LNN STANDARD CONSTRUCTION SPECIFICATIONS.
17. DETENTION POND PLANTINGS TO CONFORM TO PLANTING PLANS, SHEETS L12-L14.
18. INSTALL TRACER WIRE AS REQUIRED BY THE U.P.C. AND CITY STANDARDS.

## WATER SYSTEM GENERAL NOTES

1. ALL WATER LINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF WEST LNN STANDARDS AND THE LATEST EDITION OF THE U.P.C. AND THE UNIFORM FIRE CODE (U.F.C.). GATE VALVES SHALL BE RESILIENT SEAL, NON-RISING STEM WITH O RING PACKING, COMPLYING WITH AWWA CLASS C SPECIFICATIONS. THE VALVES SHALL BE DESIGNED TO WITHSTAND A WORKING PRESSURE OF 150 PSL. GATE VALVES SHALL BE FURNISHED WITH A TWO-INCH SQUARE OPERATING NUT AND SHALL OPEN COUNTER CLOCKWISE WHEN VIEWING FROM ABOVE. BUTTERFLY VALVES SHALL BE RUBBER SEAL TYPE AND BUBBLE-TIGHT AT 150 PSL AND SHALL CONFORM TO AWWA C504. BUTTERFLY VALVES SHALL BE MUELLER OR APPROVED EQUAL. OPERATING NUT SHALL BE LOCATED ON THE SIDE OF THE MAIN SHOWN ON THE PLANS. VALVE BOXES SHALL BE VANCOUVER PATTERN. FIRE HYDRANTS SHALL CONFORM WITH AWWA SPECIFICATION C-502. PUMPER OUTLET IS TO FACE THE DIRECTION OF ACCESS. ACCEPTABLE MODELS ARE MUELLER CENTURION A-423 OR CLOW MEDALLION F-2545. HYDRANT COLOR SHALL BE YELLOW. ALL MATERIALS, INSTALLATION, TESTS, AND COLORATION TO BE IN STRICT ACCORDANCE WITH THE CITY OF WEST LNN PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS AND THE OREGON STATE HEALTH DIVISION ADMINISTRATIVE RULES, CHAPTER 333.
2. THE CITY OF WEST LNN SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY WATER LINE CONSTRUCTION.
3. THE CONTRACTOR SHALL VERIFY THAT THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER AND SEWER UTILITIES HAS BEEN MAINTAINED AS REQUIRED BY THE CITY OF WEST LNN, THE OREGON HEALTH DIVISION AND THE U.P.C. THRUST LOCKS ARE TO BE PROVIDED OF ALL CHANGES IN DIRECTION AND BRANCHES. THRUST BLOCKING CONCRETE STRENGTH IS TO BE 3000 PSL. SEE DETAILS FOR THRUST BLOCK SIZING. FOUR THRUST BLOCKS AGAINST UNDISTURBED EARTH.
4. ALL WATER MAIN INSTALLATIONS AND ALL TESTING SHALL BE COMPLETED IN ACCORDANCE WITH CITY OF WEST LNN, U.P.C AND U.F.C STANDARDS.
5. PIPE BEDDING AND BACKFILL SHALL CONFORM TO THE CITY OF WEST LNN STANDARDS FOR WORK INSIDE THE CITY RIGHT OF WAY AND TO THE PROJECT TECHNICAL SPECIFICATIONS, U.P.C. STANDARDS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR WORK ON PRIVATE PROPERTY. GRANULAR BACKFILL (3/4" - 0") IS TO BE COMPACTED TO 95% MAXIMUM DRY DENSITY PER AASHTO T-180 TEST METHOD AND NATIVE MATERIAL SHALL BE COMPACTED TO 95% OF IN-PLACE DRY DENSITY OF SURROUNDING SOIL. EXCAVATION BEDDING AND BACKFILL SHALL BE IN ACCORDANCE WITH DIVISION 204 OF THE CITY OF WEST LNN STANDARD CONSTRUCTION SPECIFICATIONS. BACKFILL UNDER NEW STREETS SHALL BE CLASS B AND BACKFILL IN EXISTING STREETS SHALL BE CLASS E.
6. DUCTILE IRON PIPE SHALL BE CLASS 52 CEMENT MORTAR LINED IN CONFORMANCE WITH AWWA C110. MECHANICAL JOINT FITTINGS SHALL CONFORM TO AWWA C153. WATER MAINS SHALL BE DUCTILE IRON PIPE CONFORMING TO AWWA C151 CLASS 52. PIPE IS TO HAVE CEMENT MORTAR LINING AND BITUMINOUS SEAL COAL CONFORMING TO AWWA C104. JOINTS ARE TO BE PUSH-ON RUBBER GASKETED JOINTS UNLESS NOTED OTHERWISE ON THE PLAN. PIPE FITTINGS ARE TO BE OF THE SAME MATERIAL AND CLASS AS PIPE AND OF DOMESTIC ORIGIN.
7. CONTRACTOR SHALL PERFORM ALL NECESSARY PRESSURE AND LEAKAGE TESTS ON ALL WATER LINES PER THE CITY OF WEST LNN STANDARDS.
8. ALL FITTINGS SHALL BE RESTRAINED PER THE CITY OF WEST LNN, U.P.C. AND U.F.C. STANDARDS.
9. PRIOR TO BEING PLACED IN SERVICE, THE WATER LINES AND SERVICES SHALL BE FLUSHED, TESTED AND STERILIZED BY THE CONTRACTOR IN THE PRESENCE OF THE CITY OF WEST LNN INSPECTORS. ALL WATERLINES WILL BE PRESSURE TESTED AND PURIFICATION TESTED BEFORE CONNECTION TO THE CITY WATER SYSTEM. PRESSURE TEST SHALL BE CONDUCTED AT 180 PSL OR 1.5 TIMES AT THE NORMAL WORKING PRESSURE, WHICHEVER IS HIGHER AND SHALL MEET THE REQUIREMENTS OF DIVISION 403.14 OF THE WEST LNN PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS. CHLORINATION SHALL CONFORM TO DIVISION 403.14 OF THE W.L.S.C.S. DO NOT CONNECT NEW PIPE TO EXISTING PIPE PRIOR TO TESTING. THE CITY OF WEST LNN REQUIRES ACCEPTANCE OF NEW WATERLINE PRIOR TO CONNECTION TO THE EXISTING WATER SYSTEM.
10. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 36" COVER OVER THE WATER LINE.
11. ALL FRAME COVERS, VALVE BOXES, MANHOLES, ETC. SHALL BE INSTALLED TO FINISH GRADE OR SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO PLACING OF ASPHALT SURFACE COURSE BY THE CONTRACTOR.
12. ALL ON-SITE DOMESTIC WATER SERVICE SHALL BE INSTALLED BY OR UNDER THE DIRECT SUPERVISION OF A LICENSED PLUMBER. A PLUMBING PERMIT FROM THE CITY OF WEST LNN BUILDING DEPARTMENT IS REQUIRED FOR SERVICE LATERAL INSTALLATIONS BEYOND THE WATER METER.
13. SERVICE LATERALS SHALL BE TYPE K COPPER. LATERAL SIZES SHALL BE 1". FOR DOUBLE SERVICES, TWO 1" WATER SERVICES SHALL BE LAID SIDE BY SIDE. CORPORATION STOP SHALL BE MUELLER H 15008 OR FORD F1000 4Q. ANGLE METER STOP SHALL BE MUELLER H 14258 OR FORD 1-RV43-444W-G. METER BOXES SHALL BE EQUAL TO BROOKS #37 WITH A 37-5 LID AND COVER. METER BOXES ARE TO BE INSTALLED 3/4" ABOVE FINISH GRADE AND 2 1/2" FROM THE CURB IN THE PLANTER STRIP OR FLUSH WITH SIDEWALK SURFACE IN A SIDEWALK.

## SANITARY SEWER GENERAL NOTES

1. SANITARY SEWER SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF WEST LNN AND U.P.C. STANDARDS. ALL MATERIALS, INSTALLATION, TESTS AND INSPECTIONS ARE TO BE MADE IN STRICT ACCORDANCE WITH CITY OF WEST LNN PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS.
2. NO DRAINAGE PIPING OR PART THEREOF, WHICH IS CONSTRUCTED OF MATERIALS OTHER THAN THOSE APPROVED FOR USE UNDER OR WITHIN A BUILDING, SHALL BE INSTALLED UNDER OR WITHIN FIVE (5) FEET OF ANY BUILDING OR STRUCTURE, OR PART THEREOF, OR LESS THAN ONE FOOT (1') BELOW THE SURFACE OF THE GROUND. THIS INCLUDES STRUCTURES SUCH AS PORCHES AND STEPS, WHETHER COVERED OR UNCOVERED, BREZZEWAYS, ROOFED PORTE-COCHERES, ROOFED PATIOS, GARPORTS, COVERED WALKS AND DRIVEWAYS, AND SIMILAR STRUCTURES OR APPURTENANCES.
3. VACUUM, MANDREL VIDEO AND AIR TESTING OF PUBLIC SANITARY LINES AND MANHOLES SHALL BE CONDUCTED IN ACCORDANCE WITH THE CITY OF WEST LNN PUBLIC WORKS REQUIREMENTS. PRIVATE SANITARY LINES SHALL BE WATER OR AIR TESTED IN ACCORDANCE WITH CITY OF WEST LNN BUILDING DEPARTMENT AND U.P.C. STANDARDS. SANITARY SEWER PIPE AND APPURTENANCES SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH W.L.S.C.S. DIVISION 301.03.09 AND MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH W.L.S.C.S. DIVISION 302.03.07. ALL TESTS SHALL BE WITNESSED BY THE ENGINEER AND THE CITY OF WEST LNN. CONTRACTOR IS RESPONSIBLE FOR COORDINATING TESTING SO THAT ALL TESTS SHALL BE PASSED AND THE NEW LINES SHALL BE ACCEPTED PRIOR TO CONNECTION TO EXISTING SYSTEM.
4. ALL NECESSARY TESTS SHALL BE PERFORMED BY THE CONTRACTOR AND WITNESSED BY THE CITY AND ENGINEER.
5. FINISHED RIM ELEVATIONS OF MANHOLES AND/OR CLEANOUTS WITHIN PAVEMENT ARE APPROXIMATE. FINAL FINISHED RIM ELEVATIONS SHALL MATCH FINISHED PAVEMENT GRADES.
6. PIPE BEDDING AND BACKFILL SHALL CONFORM TO THE CITY OF WEST LNN STANDARDS FOR WORK INSIDE THE CITY RIGHT OF WAY AND TO THE PROJECT TECHNICAL SPECIFICATIONS, U.P.C. STANDARDS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR WORK ON PRIVATE PROPERTY.
7. THE CONTRACTOR SHALL VERIFY THAT THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER AND SEWER UTILITIES HAS BEEN MAINTAINED AS REQUIRED BY THE CITY OF WEST LNN, THE OREGON HEALTH DIVISION AND THE U.P.C.
8. SANITARY SEWER PIPE SHALL BE ASTM D3034 SDR 35 AND SHALL BE GREEN IN COLOR UNLESS OTHERWISE NOTED. PIPE SHALL BE PVC SEWER PIPE CONFORMING TO ASTM D-3034 SDR 35. MINIMUM STIFFNESS SHALL BE 48 PSI AND JOINT TYPE SHALL BE ELASTOMERIC GASKET CONFORMING TO ASTM F-477.
9. INSTALL CONTINUOUS INSULATED COPPER TRACER WIRE AS REQUIRED BY THE U.P.C.
10. MANHOLE BASES SHALL BE POURED IN PLACE CONCRETE BASE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3300 PSI OR PRECAST. MANHOLE RISERS AND TOPS SHALL BE PRECAST SECTIONS WITH MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI. TOPS SHALL BE ECCENTRIC CONES EXCEPT WHERE INSUFFICIENT HEADROOM REQUIRES FLAT TOPS. INVERTS SHALL BE CONSTRUCTED SO AS TO PROVIDE SMOOTH FLOW THROUGH CHARACTERISTICS AND CHANNELS MUST BE ABLE TO PASS A 7"x30" CYLINDER INTO PIPES. PVC PIPE SHALL BE CONNECTED TO MANHOLE BY MEANS OF A FLEXIBLE CONNECTIONS AND SHALL HAVE A SHEAR JOINT LOCATED 18" OUTSIDE OF MANHOLE. CEMENT GROUT FOR CONNECTING PVC SEWER PIPE TO MANHOLE WILL NOT BE PERMITTED.
11. ALL MANHOLES LOCATED IN EASEMENT AREAS REQUIRE TAMPER PROOF LIDS AND THE LID SHALL BE SET 12 INCHES ABOVE PROPOSED GRADE.
12. CLEANOUT PIPE, FITTINGS AND JOINTS SHALL BE THE SAME SPECIFICATIONS AS FOR PIPE. CASTINGS ARE AS SHOWN ON DETAILS AND SHALL CONFORM TO ASTM A48 (GRADE 30). CLEANOUT RISERS SHALL MATCH DOWNSTREAM PIPE DIAMETER. FRAMES SHALL BE SET ON 18"x24" CONCRETE PAD.
13. GRANULAR BACKFILL (3/4" - 0") IS TO BE COMPACTED TO 95% MAXIMUM DRY DENSITY PER AASHTO T-180 TEST METHOD AND NATIVE MATERIAL SHALL BE COMPACTED TO 95% OF IN-PLACE DRY DENSITY OF SURROUNDING SOIL. EXCAVATION BEDDING AND BACKFILL SHALL BE IN ACCORDANCE WITH DIVISION 204 OF THE CITY OF WEST LNN STANDARD CONSTRUCTION SPECIFICATIONS. BACKFILL UNDER NEW STREETS SHALL BE CLASS B AND BACKFILL IN EXISTING STREETS SHALL BE CLASS E.
14. PVC SERVICE LATERALS SHALL BE 4" PIPE CONFORMING TO THE SAME SPECIFICATIONS AS THE SEWER MAINS. SERVICE LATERALS SHALL BE INSTALLED TO A POINT BEYOND THE PROPERTY LINE OF THE SEWER OR UTILITY EASEMENT AS SHOWN ON THE PLAN. THE SERVICE LATERAL SHALL BE PLUGGED WITH A RUBBER RING PLUG WITH THE LOCATION OF THE LATERAL MARKED WITH A 2"x4" STAKE PAINTED GREEN.
15. A PLUMBING PERMIT FROM THE CITY OF WEST LNN BUILDING DEPARTMENT IS REQUIRED FOR SANITARY SEWER LATERALS BEYOND THE FIRST CLEANOUT.



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RENEWS: JUNE 30, 2018

J.T. SMITH  
companies



**Teresa's Vineyard**  
Public Improvements  
Sub-07-02/NDW-07-02/VAR-07-01  
West Linn, Oregon

REV	DATE	SUMMARY
1	8/5/11	Client/Agency Comments
2	8/30/11	Agency Comment

Project #: 9130 Drawn: CEG

UTILITY  
CONSTRUCTION  
NOTES

Date: April 15, 2011

**C1.1b**

APPROVED FOR CONSTRUCTION BY  
CITY OF WEST LNN  
This approval is only for general conformance  
with the design concept and general compliance  
with applicable codes and requirements and  
shall not be construed as relieving the Design  
Engineer of full responsibility for accuracy and  
completeness of the drawings. This plan review  
approval does not prevent the City from  
requiring further code corrections.  
DATE: 9-6-11 BY: *[Signature]* ENGINEERING  
DATE: 7-6-11 BY: *[Signature]* PLANNING