



CITY OF
**West
Linn**

LAND USE PRE-APPLICATION CONFERENCE

Thursday, November 15, 2012

**City Hall
22500 Salamo Road**

Willamette Conference Room

10:00 am Decommission existing septic facilities and attach city sewer. Install new water service.

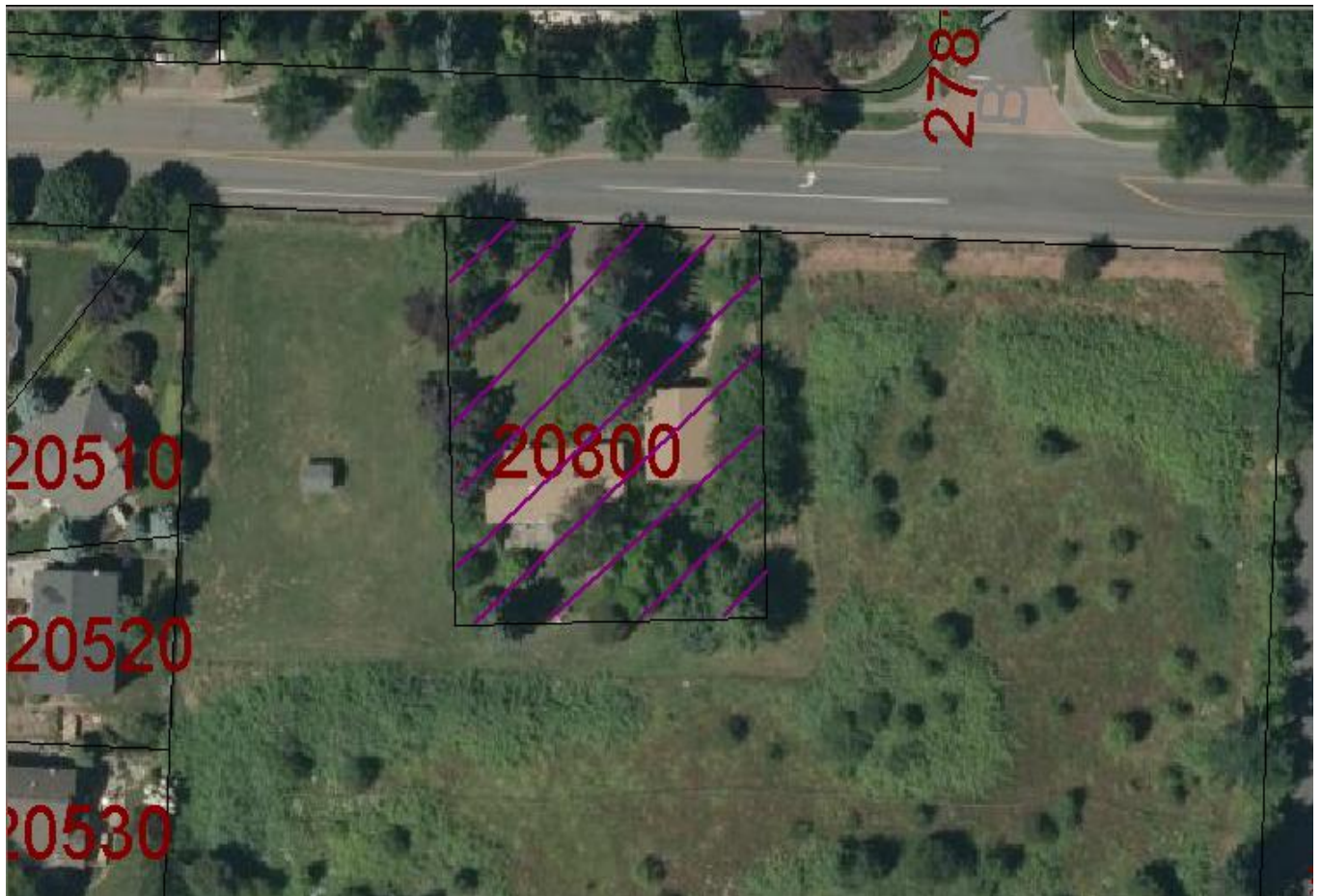
Applicant: West Linn/Wilsonville School District, Anthony Vandenberg

Subject Property Address: 20800 Hidden Springs Road

Neighborhood Assn: Hidden Springs

Planner: Tom Soppe

Project #: PA-12-19





PRE-APPLICATION CONFERENCE

THIS SECTION FOR STAFF COMPLETION		
CONFERENCE DATE: <u>11/15/12</u>	TIME: <u>10AM</u>	PROJECT #: <u>PA-12-19</u>
STAFF CONTACT:		FEE: <u>350-</u>

Pre-application conferences occur on the first and third Thursdays of each month. In order to be scheduled for a conference, this form including property owner's signature, the pre-application fee, and accompanying materials must be submitted at least 14 days in advance of the conference date. Twenty-four hour notice is required to reschedule.

Address of Subject Property (or map/tax lot): 20800 S. Hidden Springs Rd

Brief Description of Proposal: decomision existing septic facilities and attach City Sewer. Install new water service.

Applicant's Name: Anthony Vandenbergh for WLWUSD

Mailing Address: 2755 SW Borland Road, Tualatin OR 97062

Phone No: (503) 673-7990 Email Address: Vandenb@WLWU.K12.OR.US

Please attach additional materials relating to your proposal including a site plan on paper up to 11 x 17 inches in size depicting the following items:

- North arrow
- Scale
- Property dimensions
- Streets abutting the property
- Conceptual layout, design and/or building elevations
- Access to and from the site, if applicable
- General location of existing trees
- Location of creeks and/or wetlands
- Location of existing utilities (water, sewer, etc.)
- Easements (access, utility, all others)

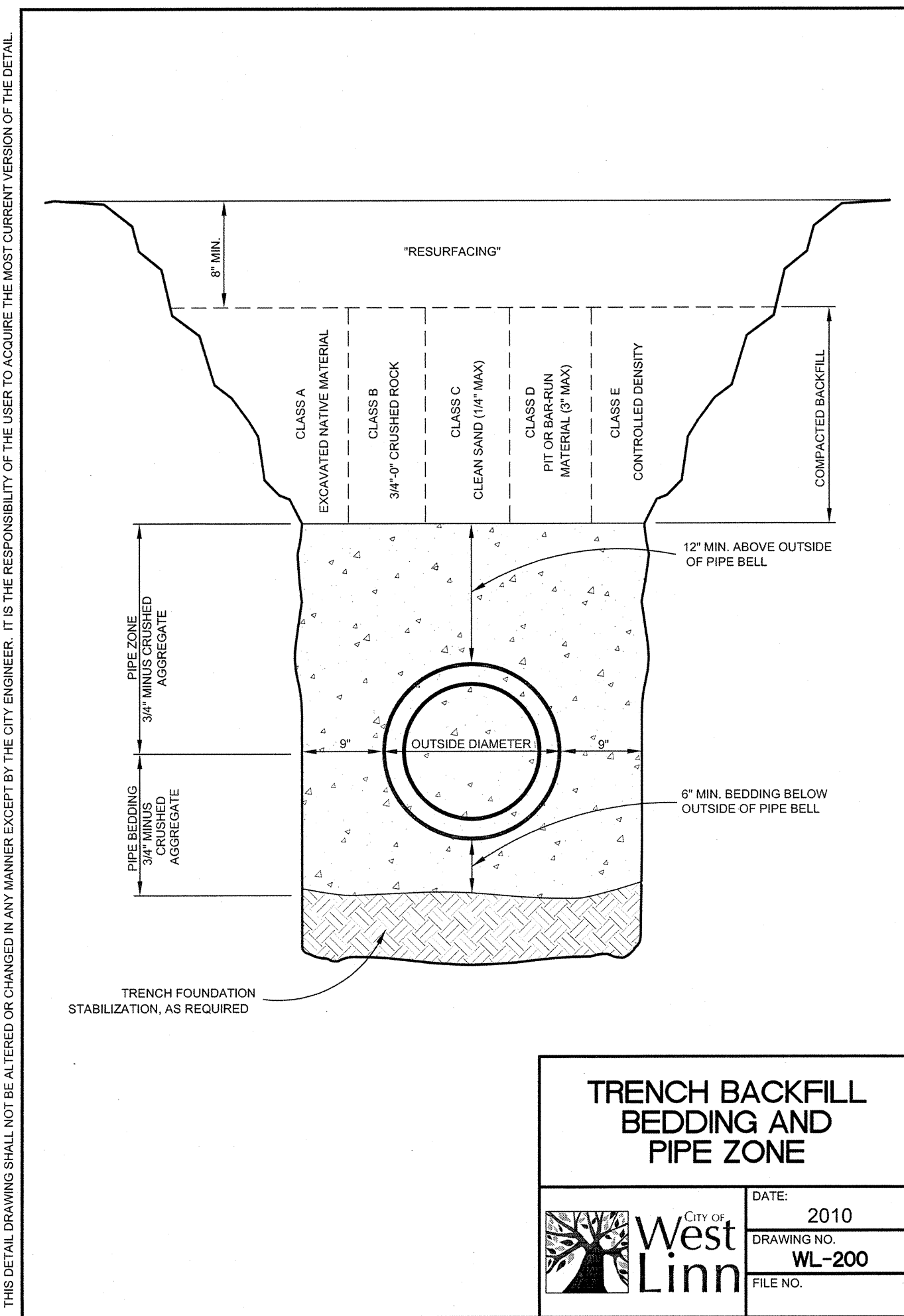
Please list any questions or issues that you may have for city staff regarding your proposal:

By my signature below, I grant city staff right of entry onto the subject property in order to prepare for the pre-application conference.

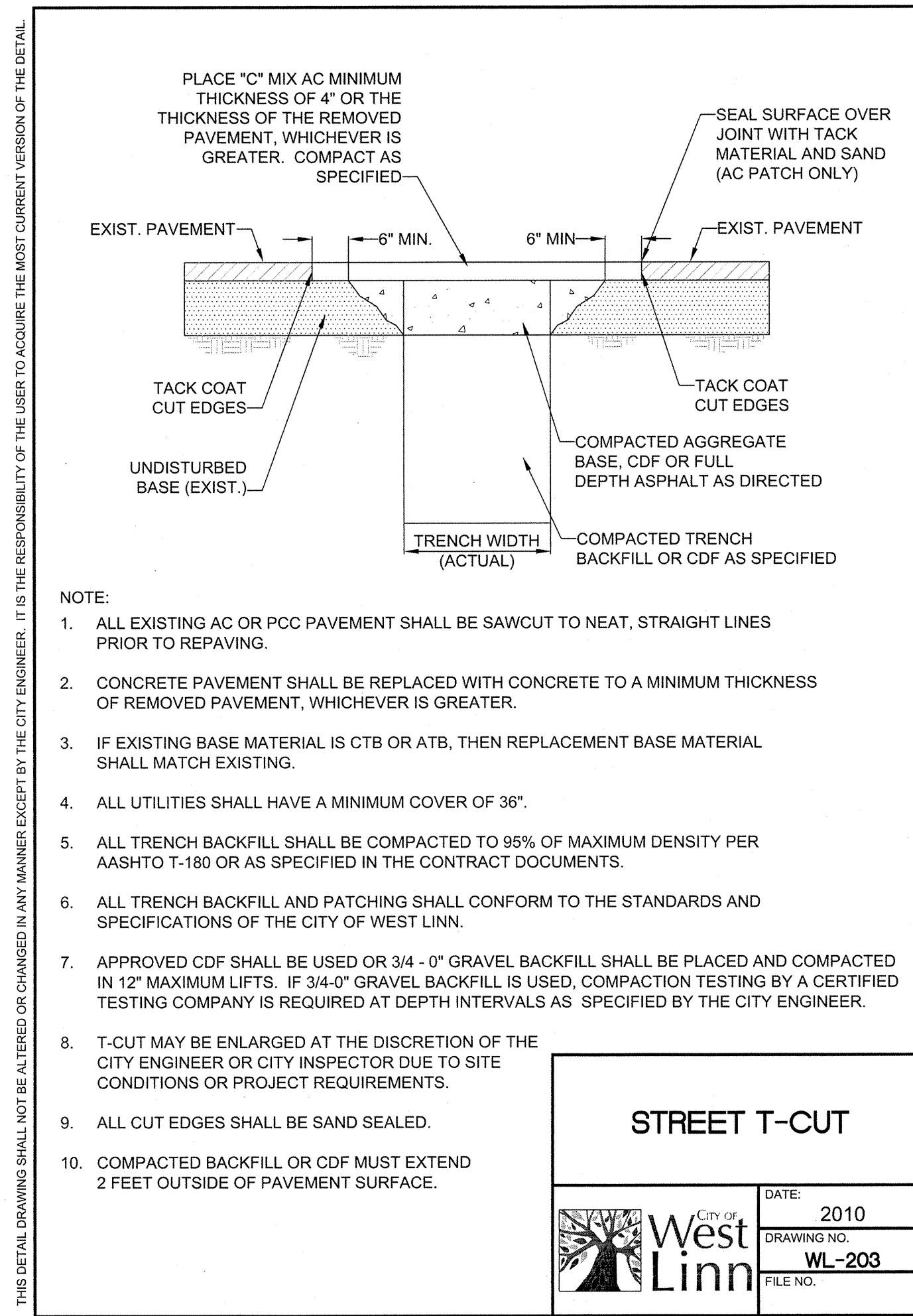
Ann K. Woodley
Property owner's signature

10.17.12
Date

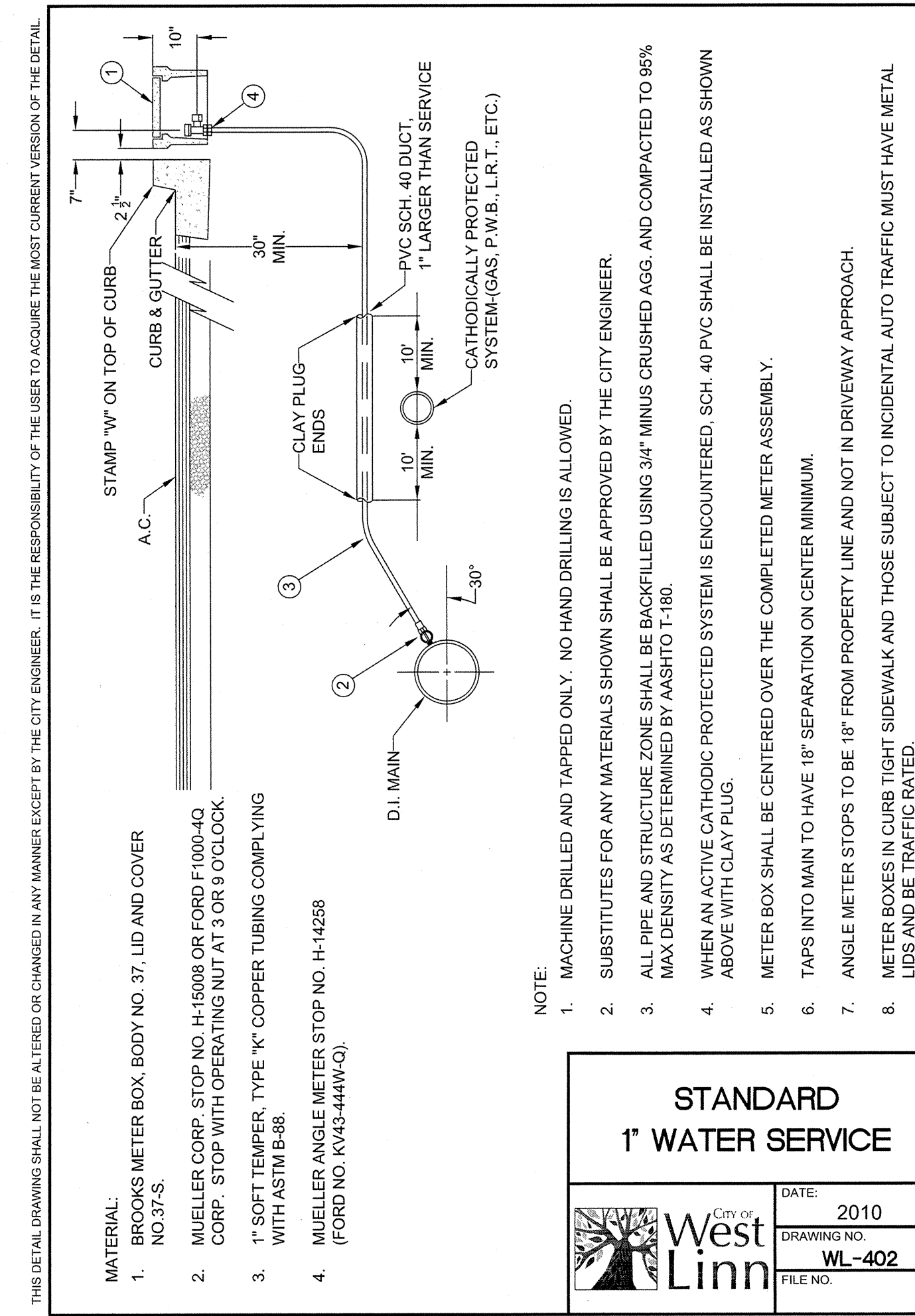
Property owner's mailing address (if different from above)



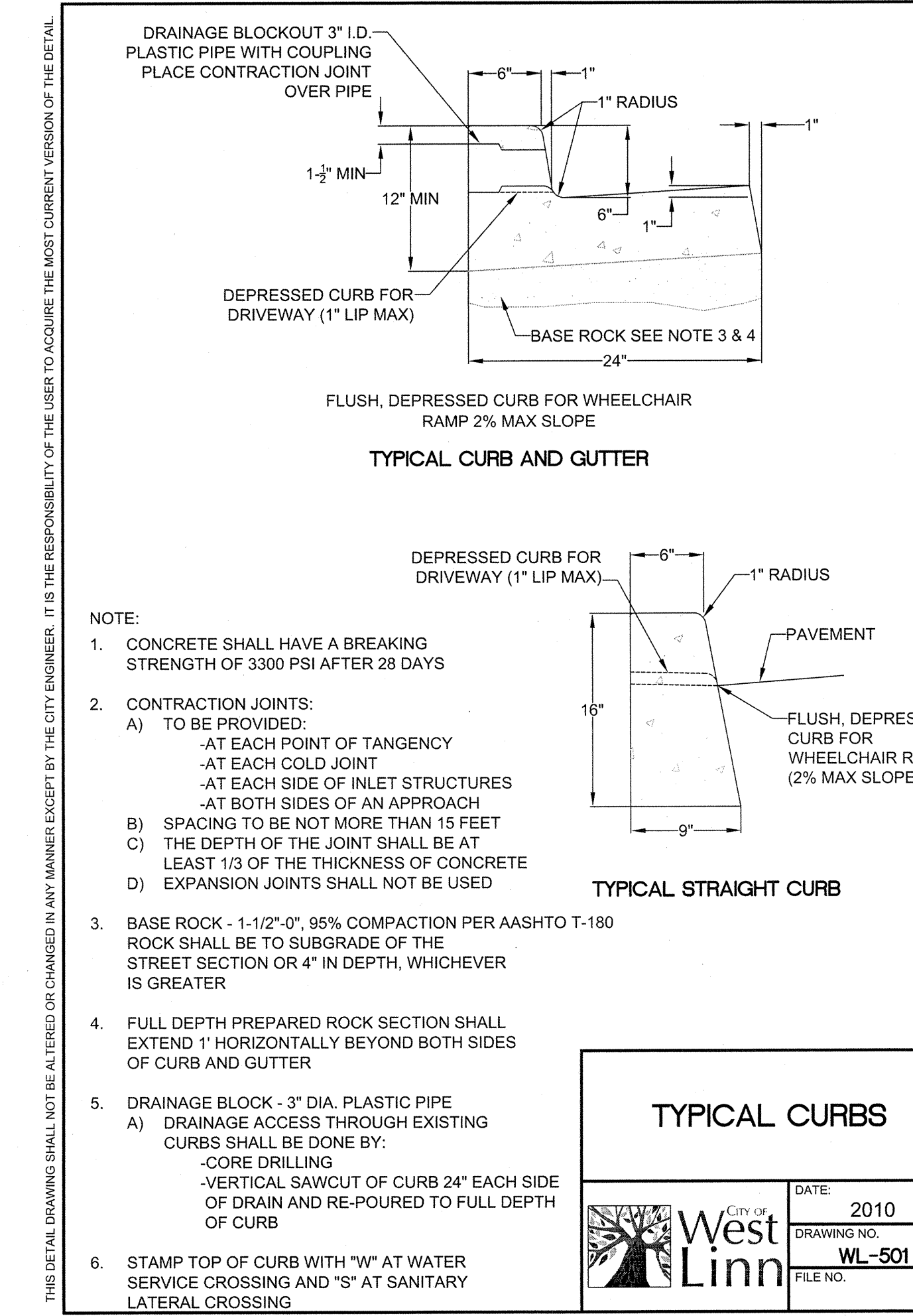
TRENCH BACKFILL BEDDING AND PIPE ZONE
 DATE: 2010
 DRAWING NO: WL-200
 FILE NO:



STREET T-CUT
 DATE: 2010
 DRAWING NO: WL-203
 FILE NO:



STANDARD 1\"/>



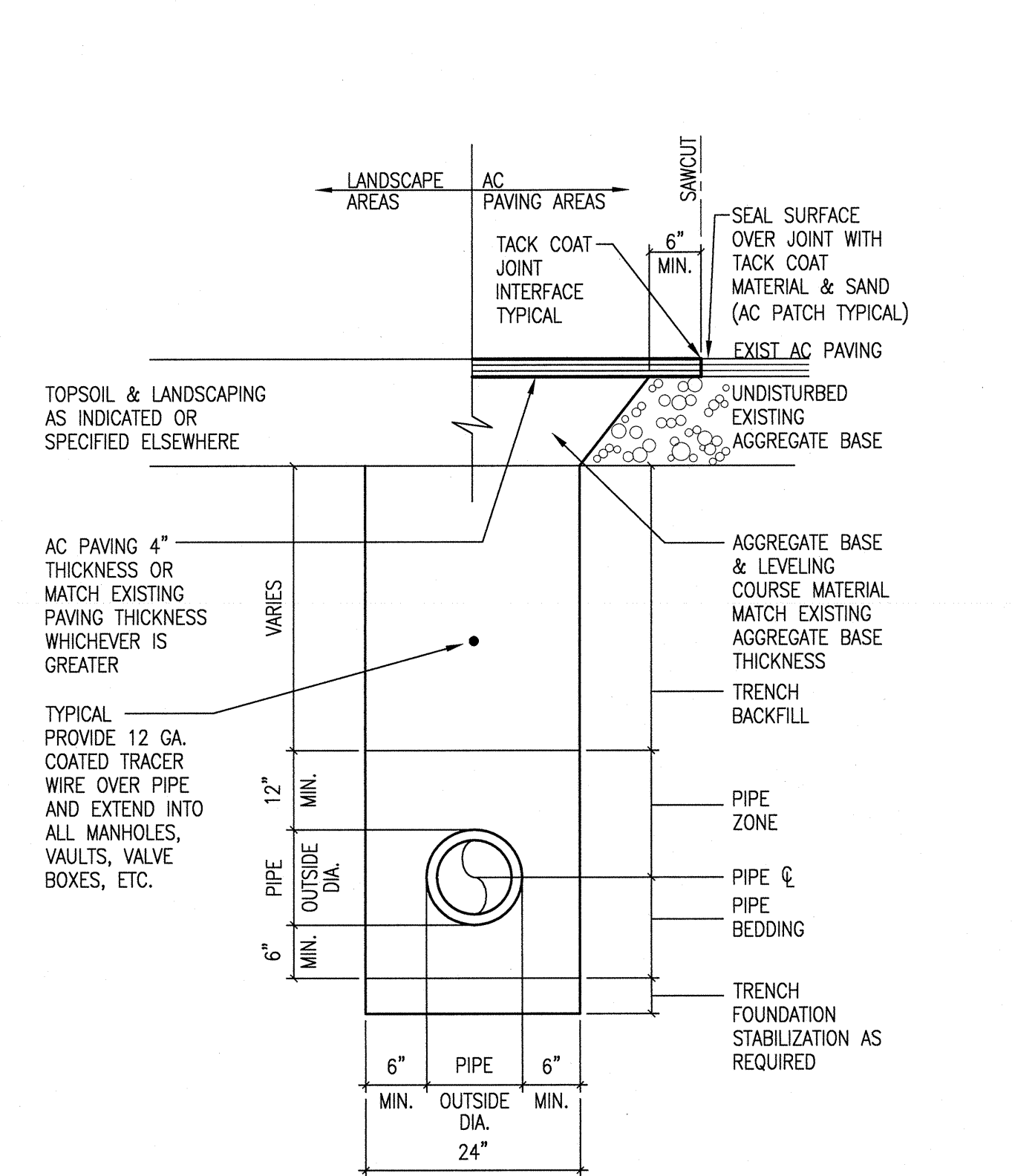
TYPICAL CURBS
 DATE: 2010
 DRAWING NO: WL-501
 FILE NO:

1
 CITY OF WEST LINN
TRENCH BACKFILL BEDDING AND PIPE ZONE
 SCALE: NONE

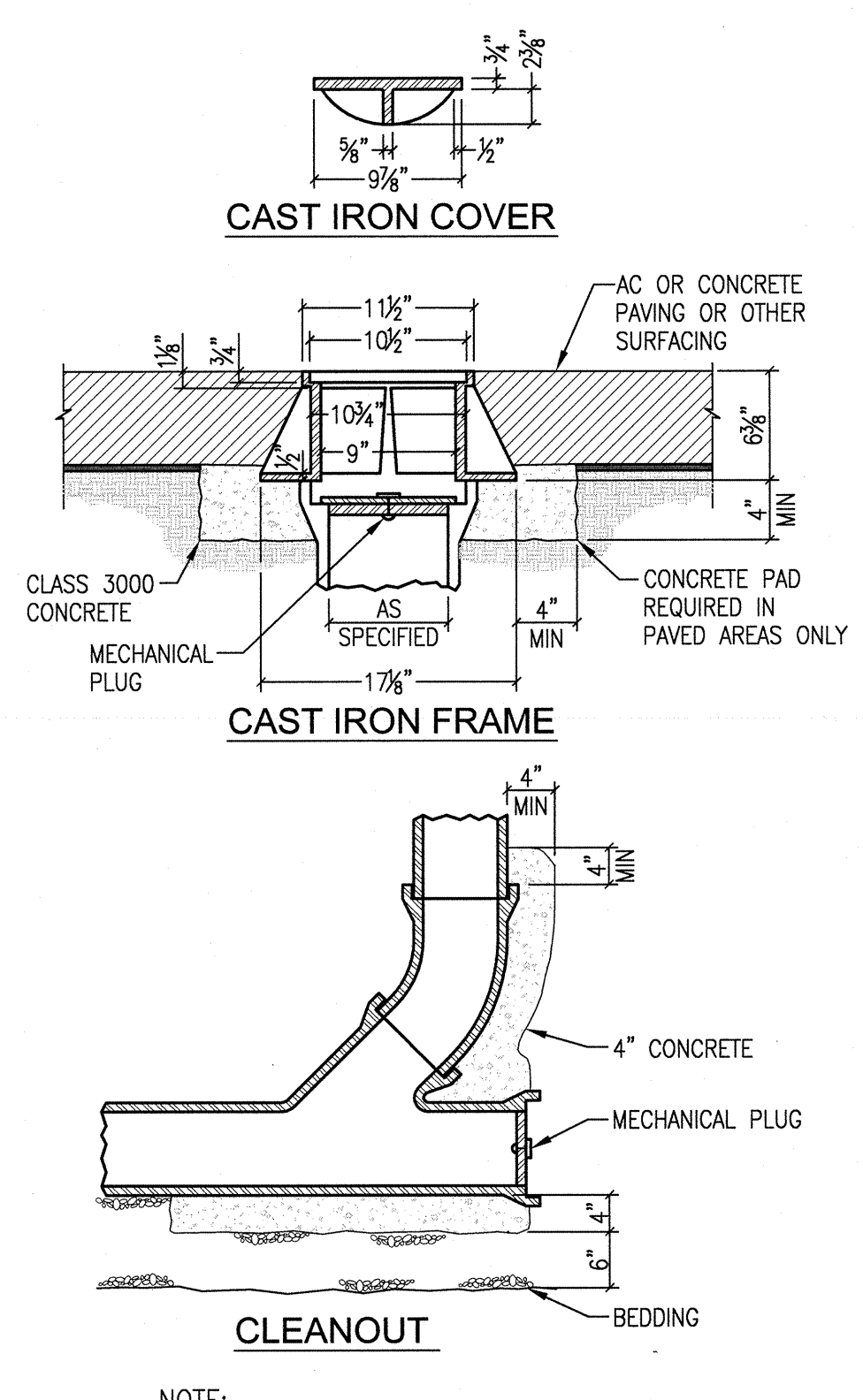
2
 CITY OF WEST LINN
STREET T-CUT
 SCALE: NONE

3
 CITY OF WEST LINN
STANDARD 1\"/>

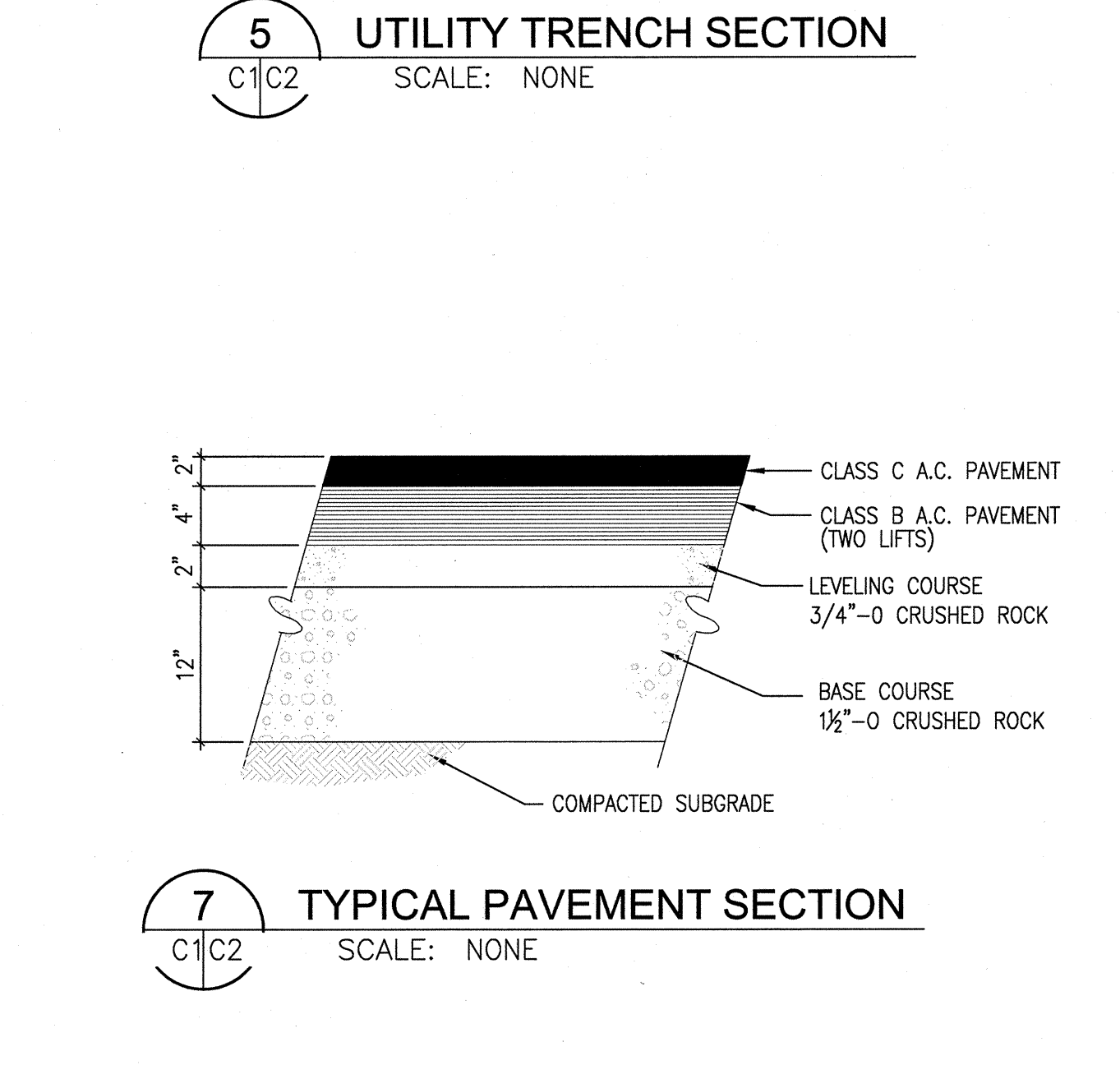
4
 CITY OF WEST LINN
TYPICAL CURBS
 SCALE: NONE



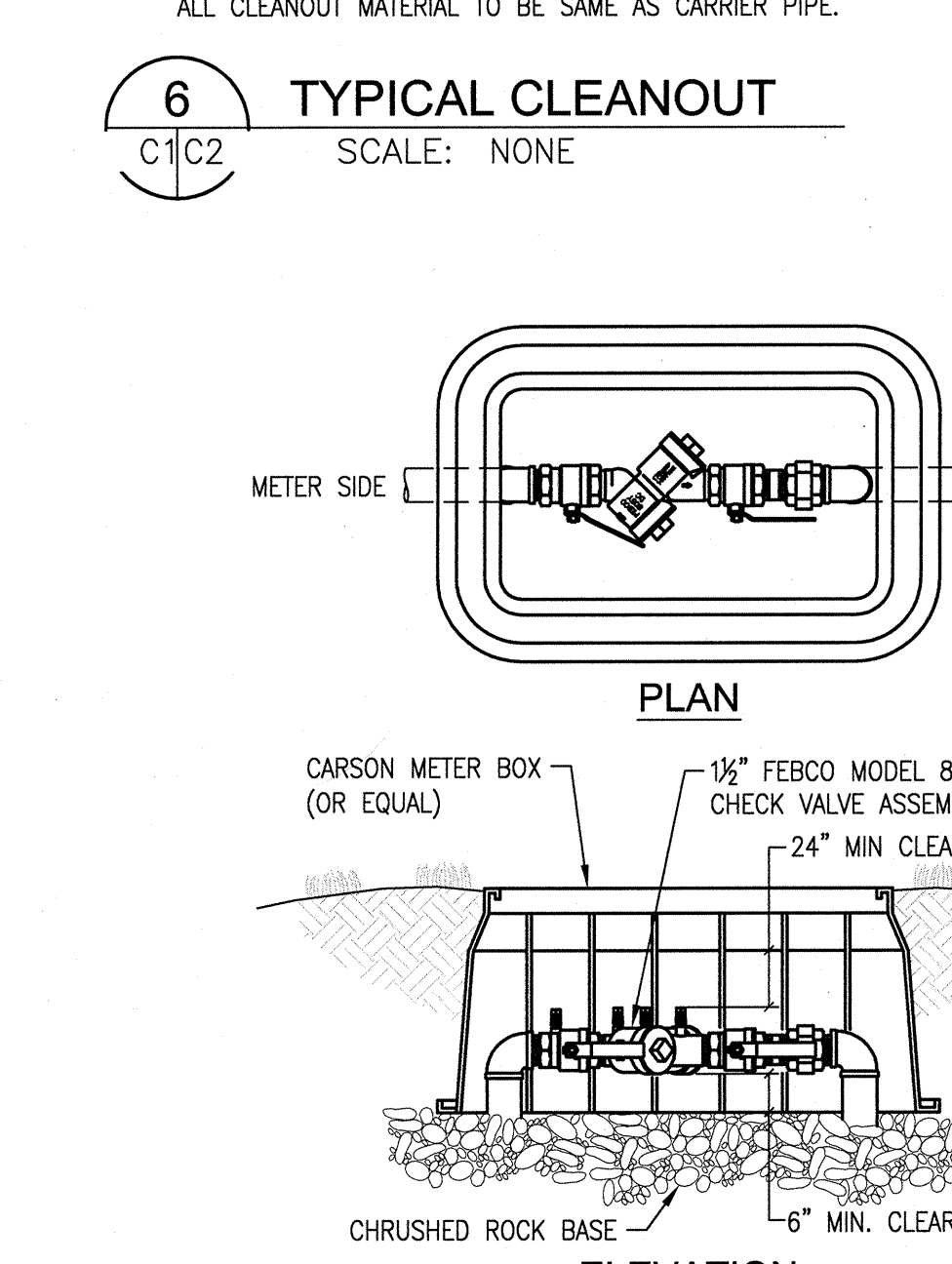
5
 CITY OF WEST LINN
UTILITY TRENCH SECTION
 SCALE: NONE



6
 CITY OF WEST LINN
TYPICAL CLEANOUT
 SCALE: NONE



7
 CITY OF WEST LINN
TYPICAL PAVEMENT SECTION
 SCALE: NONE



8
 CITY OF WEST LINN
1-1/2\"/>

GENERAL SPECIFICATIONS

- SECTION 0216 - EARTHWORK FOR UTILITIES
- TRENCH FOUNDATION MATERIAL
 - ON-SITE MATERIAL: NATIVE MATERIAL MAY BE USED AS TRENCH FOUNDATION IF IT IS FIRM, CLEAN, AND UNDISTURBED.
 - IMPORTED MATERIAL: SELECTED NATURAL FILL MATERIAL FROM OFF-SITE BORROW SHALL CONSIST OF THE FOLLOWING OR A BLEND THEREOF WELL GRADED FREE DRAINING OR CRUSHED ROCK UP TO 1 1/2" IN MAXIMUM SIZE WITH NOT MORE THAN 5% OF FINES PASSING THROUGH A #200 SIEVE.
 - PIPE BEDDING MATERIAL
 - IMPORTED MATERIAL: 3/4" MINUS WELL GRADED CRUSHED ROCK WITH LESS THAN 5% OF FINES PASSING THROUGH A #200 SIEVE.
 - FINE AGGREGATE CLEAN WASHED SAND, 100% PASSING A #4 SIEVE WITH LESS THAN 5% PASSING THROUGH A #200 SIEVE.
 - PIPE ZONE MATERIAL
 - IMPORTED MATERIAL: 3/4" MINUS WELL GRADED CRUSHED ROCK WITH LESS THAN 5% OF FINES PASSING THROUGH A #200 SIEVE.
 - IMPORTED MATERIAL: FINE AGGREGATE CLEAN WASHED SAND, 100% PASSING A #4 SIEVE WITH LESS THAN 5% PASSING THROUGH A #200 SIEVE.
 - TRENCH BACKFILL MATERIAL
 - ON-SITE MATERIAL (NOT UNDER STRUCTURES OR PAVING): CLEAN, ON SITE NATIVE MATERIAL IS SUITABLE FOR USE AS TRENCH BACKFILL MATERIAL IN AREAS NOT UNDER STRUCTURES OR PAVING IF IT CAN BE PLACED IN ACCORDANCE WITH THESE SPECIFICATIONS. EXCAVATED ON-SITE NATIVE MATERIAL SHALL NOT BE USED AS TRENCH BACKFILL MATERIAL UNDER STRUCTURES OR PAVEMENTS. STOCK PILED ON-SITE EXCAVATED NATIVE MATERIAL USED AS GENERAL BACKFILL SHALL BE FREE OF ALL ORGANIC MATERIAL AND SHALL BE WITHIN 3% OF OPTIMUM MOISTURE CONTENT.
 - IMPORTED MATERIAL (UNDER STRUCTURES OR PAVING): SELECTED NATURAL FILL MATERIAL FROM OFF-SITE BORROW SHALL CONSIST OF THE FOLLOWING OR A BLEND THEREOF WELL GRADED FREE DRAINING OR CRUSHED ROCK UP TO 1 1/2" IN MAXIMUM SIZE WITH NOT MORE THAN 5% OF FINES PASSING THROUGH A #200 SIEVE.
 - DRAINAGE AGGREGATE MATERIAL
 - MEDIUM AGGREGATE 3/8" OR 3/4" OR 1" INCH, CLEAN WASHED MEDIUM SIZED DRAIN GRAVEL WITH LESS THAN 5% PASSING THROUGH A #200 SIEVE.
 - WHEN IN THE JUDGMENT OF THE OWNER, THE EXISTING MATERIAL IN THE BOTTOM OF THE TRENCH IS UNSUITABLE FOR SUPPORTING THE PIPE, EXCAVATE BELOW THE PIPE AS DIRECTED. PLACE BACKFILL IN TRENCH TO SUBGRADE OR PIPE BEDDING WITH TRENCH FOUNDATION MATERIAL OVER FULL WIDTH OF THE TRENCH AND COMPACT LAYERS NOT EXCEEDING 6 INCHES DEEP TO THE REQUIRED GRADE.
 - PLACE SPECIFIED BEDDING MATERIAL IN AT LEAST TWO LIFTS. PLACE FIRST LIFT TO PROVIDE THE MINIMUM 6 INCH DEPTH OF BEDDING MATERIAL SHOWN ON THE PLAN BEFORE THE PIPE IS INSTALLED. SPREAD BEDDING SMOOTHLY TO PROPER GRADE SO THE PIPE IS UNIFORMLY SUPPORTED ALONG THE BARREL AND EXCAVATE BELL HOLES AT EACH JOINT TO PERMIT PROPER ASSEMBLY AND INSPECTION OF THE ENTIRE JOINT. PROVIDE FIRM UNYIELDING SUPPORT ALONG THE ENTIRE PIPE LENGTH.
 - PLACE SUBSEQUENT LIFTS OF NOT MORE THAN 6 INCHES IN THICKNESS UP TO THE HORIZONTAL CENTERLINE OF THE PIPE. BRING LIFTS UP TOGETHER ON BOTH SIDES OF THE PIPE AND CAREFULLY WORK UNDER THE PIPE BY SLICING WITH A SHOVEL OR OTHER APPROVED PROCEDURE. PAY PARTICULAR ATTENTION TO THE AREA FROM THE FLOW LINE TO THE HORIZONTAL CENTERLINE OF THE PIPE OR TOP OF BEDDING TO INSURE THAT FIRM SUPPORT IS OBTAINED TO PREVENT ANY LATERAL MOVEMENT OF THE PIPE DURING THE FINAL BACKFILLING OF THE PIPE ZONE. PLACE PIPE BEDDING FULL WIDTH OF TRENCH.
 - PLACE SPECIFIED PIPE ZONE MATERIAL CAREFULLY AROUND THE PIPE IN 6 INCH LAYERS AND THOROUGHLY HAND TAMP WITH APPROVED STICKS SUPPLEMENTED BY WALKING IN AND SLASHING WITH A SHOVEL. PREVENT PIPE FROM MOVING EITHER HORIZONTALLY OR VERTICALLY DURING PLACEMENT AND COMPACTION OF THE PIPE ZONE MATERIAL. MECHANICAL COMPACTORS ARE PROHIBITED FOR PLACEMENT OF FILL IN THE PIPE ZONE.
 - BACKFILL TRENCH ABOVE THE PIPE ZONE TO WITHIN 8 INCHES OF THE FINAL SURFACE GRADE SHOWN ON THE PLANS IN LIFTS NOT TO EXCEED 6 INCHES OF LOOSE DEPTH. IN UNPAVED AREAS, COMPACT EACH LIFT TO MINIMUM 92% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 WITH MECHANICAL VIBRATORS OR IMPACT TAMPERS. COMPACT TRENCH AREAS AT PAVING AND INSIDE BUILDING AREAS TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D1557.
 - WHEN TEMPORARY STEEL PLATES ARE INSTALLED OVER A STREET CUT, THEY SHALL BE CAPABLE OF CARRYING AT LEAST AN MS-18 LOADING. PLACE STEEL PLATES WITH A MINIMUM OF 12 INCHES BEARING ON ALL SIDES OF A CUT. ANCHOR STEEL PLATES TO MINIMIZE SHIFTING. SHIM THE EDGES OF ALL STEEL PLATES WITH COLD MIX ASPHALT.

SECTION 0210 - EXTERIOR WATER DISTRIBUTION

- WATER SERVICE PIPING (LESS THAN 4" DIAMETER)
 - COPPER TUBING AND ASSOCIATED FITTINGS SHALL CONFORM TO ASTM 888, TYPE K. FITTINGS FOR SOLDER-TYPE JOINT SHALL CONFORM TO ANSI B16.18 OR ANSI B16.22; FITTINGS FOR COMPRESSION-TYPE JOINT SHALL CONFORM TO ANSI B16.26, FLARED TUBE TYPE.
 - PVC WATER SERVICE PIPING SHALL BE ASTM D 1785 SCHEDULE 40 OR ASTM D 2241, CLASS 160. FITTINGS SHALL BE ASTM D 2466. SOLVENT CEMENT FOR JOINTING SHALL BE PER ASTM D 2564.
- TAPPING SLEEVES SHALL BE DUCTILE IRON EPOXY COATED STEEL, OR STAINLESS STEEL FITTINGS. BRANCH OUTLET FROM TAPPING SLEEVE SHALL BE SCHEDULE 10 MINIMUM. SLEEVE SHALL CONFORM TO LOCAL MUNICIPALITY REQUIREMENTS.
- INSTALL PVC PIPING AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S ACCOMMODATIONS AND AWWA C 605.
- INSTALL VALVES, FITTINGS, HYDRANTS, AND THRUST BLOCKING IN ACCORDANCE WITH AWWA C 600.
- TEST WATER MAINS AND WATER SERVICE LINES IN ACCORDANCE WITH THE REQUIREMENTS OF AWWA C 600 FOR HYDROSTATIC TESTING. TEST DUCTILE-IRON PIPELINES WITH MECHANICAL JOINTS SHALL NOT EXCEED THE AMOUNTS GIVEN IN AWWA C 600. THE AMOUNT OF LEAKAGE ON DUCTILE-IRON PIPE WITH MECHANICAL JOINTS SHALL BE EXCEED THE AMOUNTS GIVEN IN AWWA C 600; NO LEAKAGE WILL BE ALLOWED AT JOINTS MADE BY ANY OTHER METHOD.
- AFTER THOROUGHLY FLUSHING THE SYSTEM WITH WATER TO REMOVE SEDIMENT, THE SYSTEM SHALL BE DISINPECTED ACCORDING TO AWWA C 651.
- SUBMITTALS: SUBMIT MANUFACTURER'S STANDARD CATALOG DATA FOR THE FOLLOWING
 - PIPE & FITTINGS

SECTION 0230 - SANITARY SEWER SYSTEM

- GRAVITY SANITARY SEWER PIPING
 - PVC PIPE SHALL CONFORM TO ASTM D3034, SDR 35, (4" TO 15") OR ASTM F679, PS 46, (18" TO 27").
- INSTALL PVC PIPE AND FITTINGS IN ACCORDANCE WITH THE GENERAL REQUIREMENTS FOR INSTALLATION OF PIPELINES AND WITH THE REQUIREMENTS OF UN1-B-5 FOR LAYING AND JOINING PIPE AND FITTINGS. MAKE JOINTS WITH THE GASKETS PREVIOUSLY SPECIFIED JOINTS WITH THIS PIPING. ASSEMBLE THESE JOINTS IN ACCORDANCE WITH THE REQUIREMENTS OF UN1-B-5 FOR ASSEMBLY OF JOINTS. MAKE JOINTS TO OTHER PIPE MATERIALS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PLASTIC PIPE MANUFACTURER.
- HYDROSTATIC TESTING (GRAVITY LINES)
 - PIPE AND JOINTS SHALL SUSTAIN LOSSES NOT EXCEEDING 0.04 GALLONS PER HOUR PER INCH DIAMETER PER 100 FEET WHEN FIELD TESTED BY EXFILTRATION METHODS, EXCEPT 0.3 GALLONS PER HOUR MAY BE USED IN ARIID CLIMATE ZONES IF APPROVED BY THE ENGINEER.
 - THE HYDROSTATIC HEAD FOR TEST PURPOSES SHALL EXCEED THE MAXIMUM ESTIMATED GROUND WATER LEVEL IN THE SECTION BEING TESTED BY AT LEAST 72 INCHES AND IN NO CASE SHALL BE LESS THAN 72 INCHES ABOVE THE INSIDE TOP OF THE HIGHEST SECTION OF PIPE IN THE TEST SECTION, INCLUDING SERVICE CONNECTIONS. THE ENGINEER SHALL MAKE THE FINAL DECISIONS REGARDING TEST HEIGHT FOR THE WATER IN THE PIPE SECTION BEING TESTED. THE LENGTH OF PIPE TESTED BY EXFILTRATION SHALL BE LIMITED SO THAT THE PRESSURE ON THE INVERT OF THE LOWER END OF THE SECTION SHALL NOT EXCEED 28 FEET OF WATER COLUMN.
 - IN ADDITION TO HYDROSTATIC OR AIR TESTING, THE CONTRACTOR SHALL CONDUCT DEFLECTION TESTS OF SANITARY SEWERS CONSTRUCTED OF FLEXIBLE PIPE. THE TESTING SHALL BE CONDUCTED BY PULLING AN APPROVED MANDREL THROUGH THE COMPLETED PIPELINE. THE DIAMETER OF THE MANDREL SHALL BE 95% OF THE PIPE INITIAL INSIDE DIAMETER.
- SUBMITTALS: SUBMIT MANUFACTURER'S CATALOG DATA FOR PIPING & MANHOLES.

No.	Revision	Drawn	Job Manager	Project Director	Date

Drawing Revisions
 Note: * indicates signatures on original issue of drawing or last revision of drawing



Reuse of Documents
 This document and the ideas and designs incorporated herein, as an instrument of professional service, is the property of GHD Inc. and shall not be reused in whole or in part for any other project without GHD Inc.'s written authorization. © GHD Inc. 2012



GHD Inc.
 15575 SW SEQUOIA PKWY SUITE 140 PORTLAND OR USA
 T 1 503 228 3921 F 1 503 228 3928
 www.ghd.com

Client **WEST LINN-WILSONVILLE SCHOOL DISTRICT**
 Project **ERICKSON PROPERTY UTILITY IMPROVEMENTS**
 Title **DETAILS & SPECIFICATIONS**

Scale	AS SHOWN	Contract No.	8410015
Drawn	STS	Designer	STS
Drafting Check		Design Check	

Approved (Project Director)
 Date 10/2/12

This Drawing must not be used for Construction unless Signed and Sealed as Approved
 Drawing No. **C2** Original Size **Arch E1**
 Sh 2 of 2 Rev.

ISSUED FOR PERMIT