

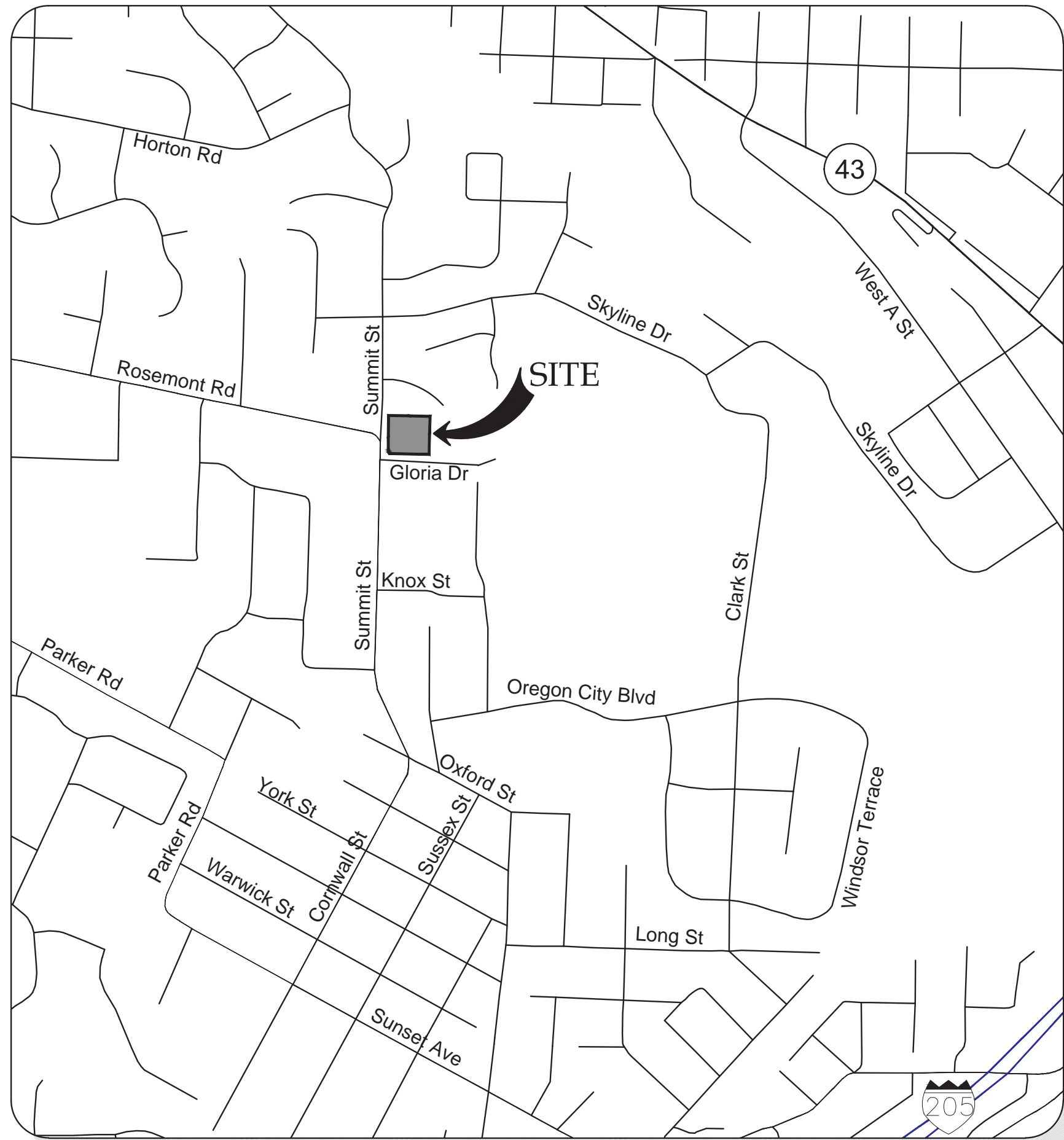
AS-BUILT RECORD DRAWINGS

FOR

HARPER'S TERRACE SUBDIVISION

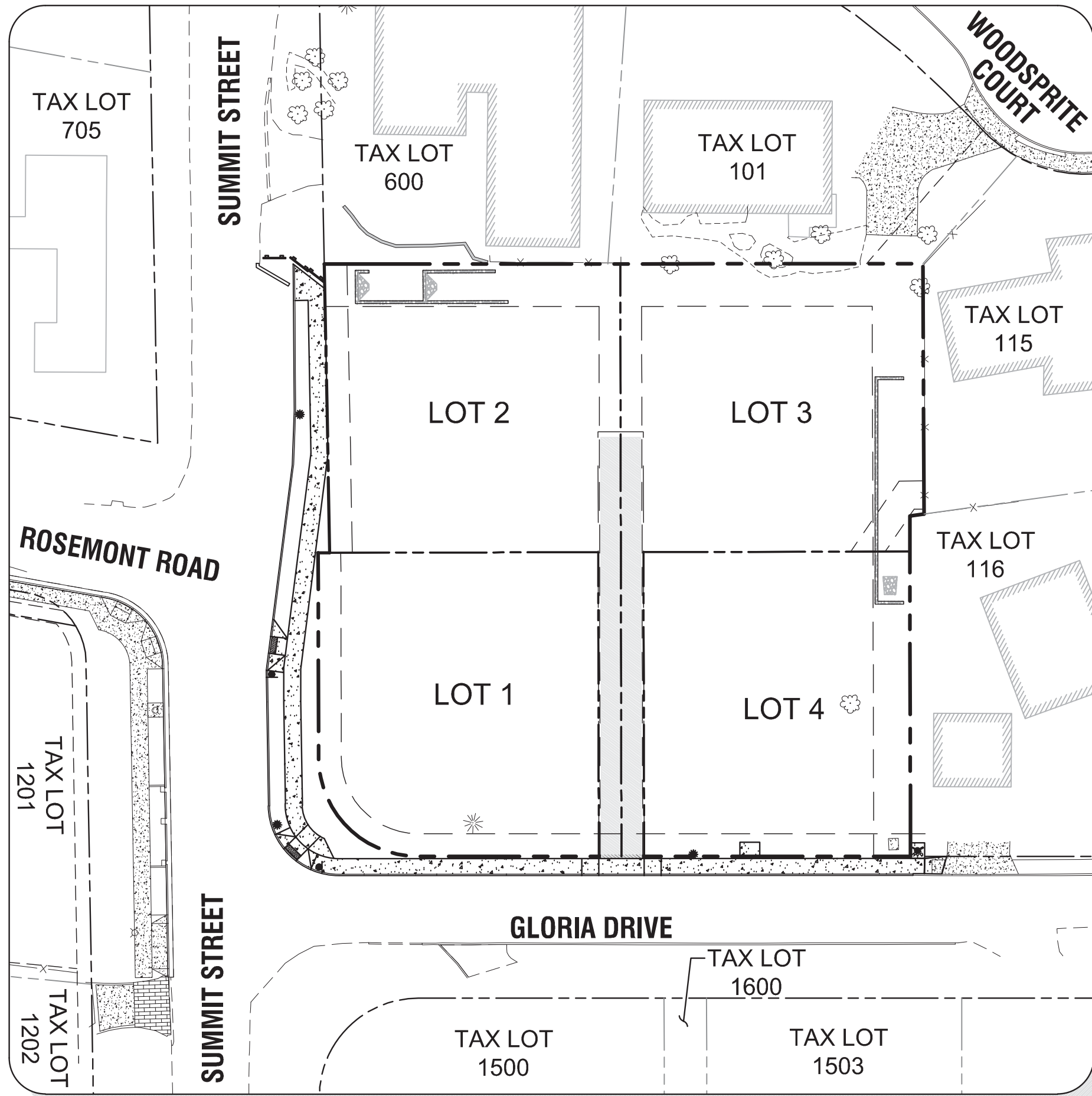
PREPARED FOR

LF 10, LLC

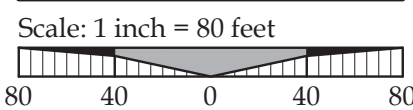


VICINITY MAP

NOT TO SCALE



SITE MAP



TAX LOT 500 LOCATED IN THE NW 1/4 & SE 1/4 OF

SECTION 25, T.2S., R.1E., W.M.

CITY OF WEST LINN, CLACKAMAS COUNTY, OREGON

PROJECT TEAM

OWNER/APPLICANT
LF 10, LLC
C/O: J.T. SMITH COMPANIES
5285 MEADOWS ROAD, SUITE #171
LAKE OSWEGO, OR 97035
CONTACT: JOHN WYLAND
EMAIL: jwyland@jtsmithco.com

PLANNING CONSULTANT

3J CONSULTING, INC
5075 SW GRIFFITH DR, SUITE 150
BEAVERTON, OR 97005
CONTACT: ANDREW TULL
PHONE: 503-946-9365
EMAIL: andrew.tull@3j-consulting.com

CIVIL ENGINEER

3J CONSULTING, INC.
5075 SW GRIFFITH DR, SUITE 150
BEAVERTON, OR 97005
CONTACT: JOHN HOWORTH
PHONE: (503) 946-9365
EMAIL: john.howorth@3j-consulting.com

GEOTECHNICAL CONSULTANT

GEOPACIFIC ENGINEERING, INC.
14835 SW 72ND AVENUE
PORTLAND, OR 97224
CONTACT: SCOTT HARDMAN
PHONE: (503) 625-4455
EMAIL: shardman@geopacificeng.com

LAND SURVEYOR

COMPASS SURVEYING
4107 SE INTERNATIONAL WAY, SUITE 705
MILWAUKIE, OR 97222
CONTACT: DON DEVLAEINCK
PHONE: 503-653-9093
EMAIL: dond@compass-engineering.com

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SITE INFORMATION

SITE ADDRESS

4997 SUMMIT STREET
WEST LINN, OR 97068

TAX LOT

2S1E25DB 500

FLOOD HAZARD

MAP NUMBER: 41005C0257D ZONE X (UNSHADED)

JURISDICTION

CITY OF WEST LINN

ZONING

R-10

UTILITIES & SERVICES

WATER, STORM, SEWER

CITY OF WEST LINN
CONTACT: KHOI LE
PHONE: (503) 722-5517
EMAIL: kle@westlinnoregon.gov

GAS

NORTHWEST NATURAL - ENGINEERING
CONTACT: BRIAN KELLEY
PHONE: (503) 220-2427
EMAIL: brian.kelley@nwnatural.com

FIRE

TUALATIN VALLEY FIRE & RESCUE
CONTACT: TY DARBY
PHONE: (503) 259-1409
EMAIL: ty.darby@tvfr.com

POWER

PGE
CONTACT: CHRIS JEWETT
PHONE: (503) 672-5481
EMAIL: chris.jewett@pgn.com

CABLE

COMCAST
CONTACT: KENNETH WILLS
PHONE: (503) 793-9981
EMAIL: kenneth_wills@cable.comcast.com

CABLE

CENTURYLINK - REGIONAL ENGINEER
CONTACT: KENNETH SCIULLI
PHONE: (503) 242-0304
EMAIL: kenneth.sciulli@centurylink.com

CENTURYLINK - REGIONAL MANAGER
CONTACT: JEREMY MORRIS
PHONE: (503) 293-4567
EMAIL: jeremy.morris@centurylink.com

POLICE, SCHOOLS, ROADS, PARKS

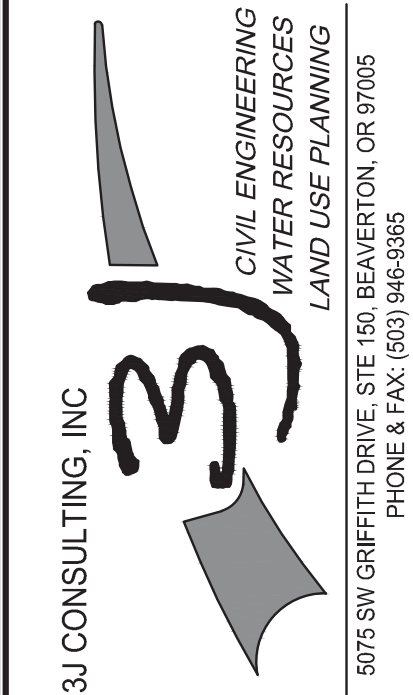
CITY OF WEST LINN

RECORD DRAWING
03/17/2015

This drawing has been prepared to reflect constructed deviations from permit documents. The basis of this information is derived in whole or in part from a combination of:

- Contractor supplied redlines
 - Site observations by the engineer
 - Field notes
- The stamping engineer of record certifies this drawing is an accurate portrayal of the final construction, and the resulting improvements are in conformance with the standards of the City of West Linn.

COVER SHEET
HARPER'S TERRACE
SUBDIVISION
LF 10, LLC
WEST LINN, OR



3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 2S1E25DB 500
DESIGNED BY | CLF/BC
CHECKED BY | JDH

SHEET TITLE
COVER SHEET

SHEET NUMBER

C000

WEST LINN PLANNING COMMISSION
FINAL DECISION NOTICE
SUB-13-05

IN THE MATTER OF A 4-LOT SUBDIVISION AT 4997 SUMMIT STREET

At their meeting of February 19, 2014, the West Linn Planning Commission held a public hearing to consider the request by LF 10, LLC to approve a 4-lot subdivision. The proposed development required Subdivision approval. The approval criteria for Subdivision are found in Chapter 85 of the Community Development Code (CDC). The hearing was conducted pursuant to the provisions of CDC Chapter 99.

The hearing commenced with a staff report presented by Tom Soppe, Associate Planner. Andrew Tull of 3J Consulting, Inc. presented for the applicant. Alice Richmond provided testimony in support of the application. Janet Dalgaard provided testimony in opposition. Mr. Tull and Michael Robinson of Perkins Coie LLC provided the applicant's rebuttal. After deliberations, motions were made, seconded, and approved to amend Condition of Approval 4 and to eliminate Condition of Approval 5 respectively. A motion was made, seconded, and passed to approve the application with two new findings, with the amended conditions. The additional findings are as follows:

Additional Finding 1: Condition of Approval 4 should be amended to specifically require that both streets have street trees.

Additional Finding 2: As Condition of Approval 9 requires the development meet all Engineering standards including for street lighting, Condition of Approval 5 is not needed.

The approved conditions of approval are as follows, with conditions 6-9 re-numbered as 5-8:

- Site Plan. With the exception of modifications required by these conditions, the project shall conform to the Subdivision Plat- Phase 1, Sheet C2.0, dated January 28, 2014, located on Page 47 of Exhibit PC-4. If proof of applicant ownership of the hiatus strip between this property and the property to the northeast is provided by the time of final platting, the final plat may then conform to the Subdivision Plat- Phase 2, Sheet C2.0A, dated January 28, 2014 located on Page 48 of Exhibit PC-4.
- Fire Flow Test. The applicant shall perform a fire flow test to the satisfaction of TVFR.
- Shared Driveway Width. The shared driveway pavement shall be 14 feet wide.

- Street Trees. Street trees shall be provided on both Summit and Gloria. The applicant shall pay the appropriate amount towards street trees as determined by the City Parks and Recreation Department.
- Significant Trees. The significant 36-inch fir tree proposed for removal at the south end of the proposed private street/shared driveway shall be mitigated for on an inch-per-inch basis on site. If that would result in excess trees on site at maturity, as determined by the City's Arborist, then the appropriate amount of mitigation may occur off-site in City-owned land. Required street trees shall not count towards mitigation.
- Sanitary Sewer Easement. The final plat shall include a sanitary sewer easement on Lot 3 covering where Lot 4's sanitary sewer line traverses Lot 3.
- Stormwater.
 - Prior to recording the final plat, the applicant shall record the proposed stormwater easement on the property at 2630 Woodsprite Court as shown on the Subdivision Plat Sheet C2.0 and Subdivision Plat Sheet C2.0A, Page 47-48 of Exhibit PC-4.
 - The applicant proposes a shared stormwater line located in the proposed shared driveway/private street and connecting downhill through the adjacent easements to the existing Woodsprite Court. This line shall be public.
- Engineering Standards. All public improvements and facilities associated with public improvement including grading, onsite stormwater design, street lighting, easements, and easement locations are subject to the City Engineer's review, modification, and approval.

This decision will become effective 14 days from the date of mailing of this final decision as identified below. Those parties with standing (i.e., those individuals who submitted letters into the record, or provided oral or written testimony during the course of the hearings, or signed in on an attendance sheet or testimony form at either of the hearings, or who have contacted City Planning staff and made their identities known to staff) may appeal this decision to the West Linn City Council within 14 days of the mailing of this decision pursuant to the provisions of Chapter 99 of the Community Development Code. Such appeals would require a fee of \$400 and a completed appeal application form together with the specific grounds for appeal to the Planning Director prior to the appeal-filing deadline.

Christine M. Steel
CHRISTINE STEEL, CHAIR
WEST LINN PLANNING COMMISSION

2-27-14
DATE

Mailed this 27th day of February, 2014.

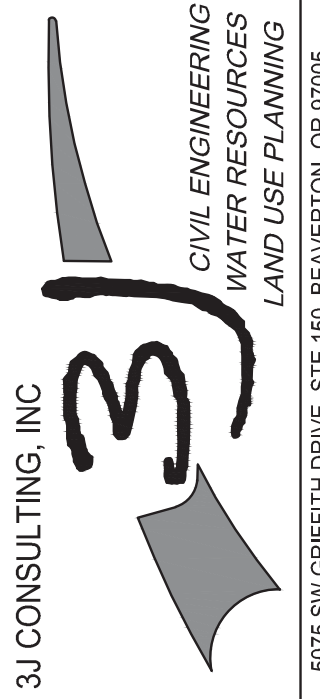
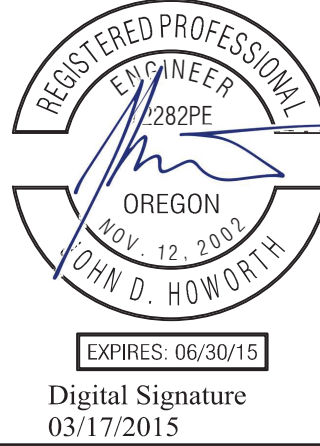
Therefore, this decision becomes effective at 5 p.m., March 13, 2014.

Devrev\projects folder\projects 2013\ sub-13-05 4997 Summit St\SUB-13-05 Final Decision

RECORD DRAWING

03/17/2015
This drawing has been prepared to reflect constructed deviations from permit documents. The basis of this information is derived in whole or in part from a combination of:
• Contractor supplied redlines
• Site observations by the engineer
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CONDITIONS OF APPROVAL
HARPER'S TERRACE
SUBDIVISION
LF 10, LLC
WEST LINN, OR



3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 2S1E25DB 500
DESIGNED BY | CLF/BCH
CHECKED BY | JDH

SHEET TITLE
C of A

SHEET NUMBER

C001

SANITARY SEWER NOTES

- PIPE SHALL BE PVC SEWER PIPE CONFORMING TO ASTM D-3034 SDR 35. MINIMUM STIFFNESS SHALL BE 46 PSI AND JOINT TYPE SHALL BE ELASTOMERIC GASKET CONFORMING TO ASTM D-3212.
- MANHOLE BASE 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 6"x36" CYLINDER INTO PIPES. PVC PIPE SHALL BE CONNECTED TO MANHOLE BY MEANS OF A FLEXIBLE CONNECTION AND SHALL HAVE A SHEAR JOINT LOCATED 18" OUTSIDE OF MANHOLE. CEMENT GROUT FOR CONNECTING PVC SEWER PIPE TO MANHOLE WILL NOT BE PERMITTED.
- ALL MANHOLES LOCATED IN EASEMENT AREAS REQUIRE TAMPER PROOF LIDS AND THE LID SHALL BE SET 12" ABOVE THE PROPOSED GRADE WHEN PLACED IN UNPAVED AREAS.
- CLEANOUT PIPE, FITTINGS, AND JOINTS SHALL BE THE SAME SPECIFICATIONS AS FOR PIPE. CASTINGS ARE AS SHOWN ON DETAIL AND SHALL CONFORM TO ASTM A48 (GRADE 30). CLEANOUT RISER SHALL MATCH DOWNSTREAM PIPE DIAMETER. FRAME SHALL SIT ON 24"x24" CONCRETE PAD.
- 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 LINN STANDARD CONSTRUCTION SPECIFICATIONS. BACKFILL UNDER NEW STREETS SHALL BE CLASS "B" AND BACKFILL IN EXISTING STREETS SHALL BE CLASS "E".
- 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 LINE OF THE SEWER OR UTILITY EASEMENT AS SHOWN ON THE PLAN. THE SERVICE LATERAL SHALL BE PLUGGED WITH A 4" RUBBER RING PLUG, AND THE LOCATION OF THE LATERAL'S END MARKED WITH A 2"x4" STAKE PAINTED GREEN.
- 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 LINN. CONTRACTOR IS RESPONSIBLE FOR COORDINATING TESTING SO THAT ALL TEST SHALL BE PASSED AND NEW LINE SHALL BE ACCEPTED PRIOR TO CONNECTION TO EXISTING SYSTEM.
- A PLUMBING PERMIT FROM THE CITY OF WEST LINN BUILDING DEPARTMENT IS REQUIRED FOR SANITARY SEWER LATERALS BEYOND THE FIRST CLEANOUT.
- ALL MATERIALS, INSTALLATION, TEST, AND INSPECTIONS TO BE MADE IN STRICT ACCORDANCE WITH CITY OF WEST LINN PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS.

GENERAL GRADING AND EROSION CONTROL (PART 1)

- APPROVAL OF THIS EROSION CONTROL (ESC) PLAN DOES NOT CONSTITUTE ON APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE 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 OF LANDSCAPING IS ESTABLISHED.
- THE ESC FACILITIES ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
- 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 LADEN WATER DOES NOT LEAVE THE SITE.
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH, OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- 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 PROJECT.

WATER NOTES

- WATER MAINS SHALL BE DUCTILE IRON PIPE CONFORMING TO AWWA C151 CLASS 52. PIPE IS TO HAVE CEMENT MORTAR LINING AND BITUMINOUS SEAL COAT 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 OF DOMESTIC ORIGIN.
- WATER MAINS HAVE A MINIMUM COVER OF 36".
- THRUST BLOCKS ARE TO BE PROVIDED AT ALL CHANGES IN DIRECTION AND BRANCHES. THRUST BLOCKING CONCRETE STRENGTH IS TO BE 3300 PSI. SEE DETAILS FOR THRUST BLOCK SIZING. POUR THRUST BLOCKS AGAINST UNDISTURBED EARTH.
- GATE VALVES SHALL BE RESILIENT SEAT, 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 PSI. GATE VALVES SHALL BE FURNISHED WITH A TWO-INCH SQUARE OPERATING NUT AND SHALL OPEN COUNTERCLOCKWISE WHEN VIEWING FROM ABOVE. BUTTERFLY VALVES SHALL BE RUBBER SEAT TYPE AND BUBBLE-TIGHT AT 150 PSI, 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.
- 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 LINN STANDARD CONSTRUCTION SPECIFICATIONS. BACKFILL UNDER NEW STREETS SHALL BE CLASS "E".
- 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 STOPS SHALL BE MUELLER H 15008 OR FORD F1000 4Q. ANGLE METER STOP SHALL BE MUELLER H 14258 OR FORD 1" KV43-444W-Q. METER BOXES SHALL BE EQUAL TO BROOKS #37 WITH A 37-S LID AND COVER. METER BOXES ARE TO BE INSTALLED 3/4" ABOVE FINISH GRADE AND 2- 1/2" FROM THE CURB IN PLANTER STRIPS OR FLUSH WITH SIDEWALK SURFACE IN A SIDEWALK.
- ALL WATERLINES WILL BE PRESSURE TESTED AND PURIFICATION TESTED BEFORE CONNECTION TO THE CITY WATER SYSTEM. PRESSURE TEST SHALL BE CONDUCTED AT 180 PSI OR 1.5 TIMES THE NORMAL WORKING PRESSURE, WHICHEVER IS HIGHER AND SHALL MEET THE REQUIREMENTS OF DIVISION 403.14 OF THE WEST LINN PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS.
- CHLORINATION SHALL CONFORM WITH DIVISION 403.13 OF THE W.L.S.C.S.
- DO NOT CONNECT NEW PIPE TO EXISTING PIPE PRIOR TO TESTING. THE CITY OF WEST LINN REQUIRES ACCEPTANCE OF NEW WATERLINE PRIOR TO CONNECTION TO EXISTING WATER SYSTEM.
- A PLUMBING PERMIT IS REQUIRED FOR SERVICE LATERAL INSTALLATIONS BEYOND THE WATER METER.
- ALL MATERIALS, INSTALLATION, TESTS, AND CHLORINATION TO BE IN STRICT ACCORDANCE WITH THE CITY OF WEST LINN PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS, AND THE OREGON STATE HEALTH DIVISION ADMINISTRATION RULES, CHAPTER 333.

GENERAL GRADING AND EROSION CONTROL (PART 2)

- CLEAN WASTE MATERIAL EXCAVATED FROM ROAD CUT OR TRENCHING AREAS NOT USED IN STREET FILL AREAS MAY BE SPREAD EVENLY ACROSS LOT AREAS IN DEPTHS NOT TO EXCEED SIX INCHES, EXCEPT WHERE NOTED OTHERWISE ON THE PLANS.
- DURING CONSTRUCTION, STRAW BALES, CUTOFF TRENCHES OR SOME OTHER METHOD OF RUNOFF CONTROL SHALL BE USED TO PREVENT EROSION AND/OR SILTATION FROM CROSSING OUTSIDE THE WORK AREA BOUNDARIES.
- LARGE ORGANIC MATERIAL, MISCELLANEOUS PIPE OR CONSTRUCTION MATERIAL MUST BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
- NO FILLING OR CUTTING SHALL BE DONE OUTSIDE OF APPROVED GRADING AREAS.
- ALL EROSION CONTROL FACILITIES SHALL MEET THE REQUIREMENTS OF THE CLACKAMAS COUNTY DEPARTMENT OF UTILITIES, EROSION PREVENTION AND SEDIMENT CONTROL PLANS TECHNICAL GUIDANCE HANDBOOK (ECTGH), REVISED AUGUST, 1994; CHAPTER 31 OF THE COMMUNITY DEVELOPMENT CODE; AND THE OREGON ADMINISTRATIVE RULES.

STORM SEWER NOTES

- EIGHT INCH TO 24-INCH STORM DRAIN PIPE IS PREFERRED TO BE SEAMLESS GREEN 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 D 3034 PVC PIPE.
- GUTTER INLETS SHALL BE POURED IN-PLACE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3300 PSI. FRAME SHALL BE FABRICATED OF STRUCTURAL STEEL, ASTM A-7, A-36, A-373.
- MANHOLE BASE MAY BE POURED IN PLACE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3300 PSI OF PRECAST. MANHOLE RISERS AND TOPS SHALL BE PRECAST SECTIONS WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI. 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 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. PIPE SHALL BE CONNECTED TO MANHOLE BY MEANS OF A FLEXIBLE CONNECTION AND SHALL HAVE A SHEAR JOINT LOCATED 18" OUTSIDE OF THE MANHOLE.
- 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 DETAILS AND SHALL CONFORM TO ASTM A48 (GRADE 30). CLEANOUT RISER SHALL MATCH DOWNSTREAM PIPE DIAMETER.
- 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.
- STORM DRAIN SERVICE LATERALS SHALL BE 4" PIPE CONFORMING TO THE SAME SPECIFICATIONS AS THE STORM DRAIN MAIN LINES. SERVICES LATERALS SHALL BE INSTALLED TO A POINT BEYOND THE LINE OR UTILITY EASEMENT AS SHOWN ON THE PLAN. THE SERVICE LATERAL SHALL BE PLUGGED WITH 4" RUBBER RING PLUG, AND THE LOCATION OF THE LATERALS END MARKED WITH A 2"x4" STAKE PAINTED WHITE.
- STORM DRAINS SHALL BE TESTED FOR DEFLECTION IN ACCORDANCE WITH DIVISION 601.03.11 AND VIDEO INSPECTED IN ACCORDANCE WITH DIVISION 601.03.12 OF THE WEST LINN STANDARD CONSTRUCTION SPECIFICATIONS. ALL TESTS SHALL BE WITNESSED BY THE ENGINEER AND A REPRESENTATIVE OF THE CITY.
- A PLUMBING PERMIT FORM THE CITY OF WEST LINN BUILDING DEPARTMENT IS REQUIRED FOR STORM DRAINS BEYOND THE FIRST CLEANOUT.
- ALL MATERIALS, INSTALLATION, TESTS, AND INSPECTIONS TO BE IN STRICT ACCORDANCE WITH THE CITY OF WEST LINN STANDARD CONSTRUCTION SPECIFICATIONS.
- INFILTRATION RAIN GARDEN PLANTINGS TO CONFORM TO PLANTING SPECIFICATION AS SHOWN ON THE PLANS AND DETAILS CONTAINED HEREIN.

EROSION CONTROL SUMMARY

- THE INTENT OF THE REQUIREMENT IS TO PREVENT SILTATION FROM REACHING STORM DRAIN SYSTEMS AND DRAINAGE WAYS.
- THE MINIMUM MEASURES NEED TO BE MADE ON ALL PROJECTS.
 - A GRAVEL PAD, AT LEAST 50 FEET LONG, IS REQUIRED WHERE VEHICLES WILL LEAVE THE CONSTRUCTION SITE.
 - A SEDIMENT BARRIER IS TO BE CONSTRUCTED OF STRAW BALES OR A SEDIMENT FENCE WHERE NOTED IN THE DETAILS OR WHERE SEDIMENT WILL CROSS OUTSIDE THE WORK AREA.
 - WHERE EXCAVATED MATERIAL IS PLACED ON HARD SURFACES (SUCH AS STREETS) MATERIAL MUST BE BROOMED OR SCRAPPED CLEAN AS SOON AS POSSIBLE.
 - RE-SEED OR COVER DISTURBED AREAS AS SOON AS IS POSSIBLE AND PRACTICAL BUT NO LATER THAN THE COMPLETION OF CONSTRUCTION ON THE OTHER PHASES OF WORK. EROSION CONTROL MEASURES SUCH AS HAY BALES AND SILT FENCES MUST REMAIN IN PLACE UNTIL SEEDED AREAS SHOW GROWTH SUBSTANTIAL TO PREVENT EROSION.

STREET NOTES

- NEW STREET SECTIONS ARE TO BE CLEARED OF ALL SURFACE VEGETATION AND OTHER MISCELLANEOUS STRUCTURES OR MATERIALS. GRUB IMPROVEMENT AREAS TO REMOVE ALL BURIED VEGETATIVE MATTER AND DEBRIS TO A DEPTH 8" BELOW SUBGRADE. PROPERLY DISPOSE OF ALL WASTE MATERIAL.
- STREET SUBGRADE SHALL CONFORM TO DIVISION 501 OF THE CITY OF WEST LINN STANDARD CONSTRUCTION SPECIFICATIONS. AREAS TO RECEIVE FILL ARE TO BE INSPECTED BY CITY OF WEST LINN PERSONNEL PRIOR TO PLACEMENT OF THE FILL. THE CONTRACTOR SHALL HAVE FILL AREAS TESTED FOR COMPACTION BY A CERTIFIED TESTING LAB IN ACCORDANCE WITH W.L.S.C.S. DIVISION 501.03.08. SUCH TESTING WILL BE AT THE CONTRACTOR'S EXPENSE.
- AGGREGATE BASE ROCK SHALL CONFORM TO THE REQUIREMENTS OF W.L.S.C.S. DIVISION 205. BASE COURSE SHALL BE 1-1/2" -0 CRUSHED ROCK AND LEVELING COURSE SHALL BE 3/4" -0. CITY OF WEST LINN REQUIRES A PROOF ROLL WITH A LOADED 10 YARD DUMP TRUCK OF THE SUBGRADE PRIOR TO PLACEMENT OF THE ROCK AND AGAIN AFTER PLACEMENT OF THE BASE ROCK AND PRIOR TO PAVING. ALL UNDERGROUND UTILITIES INCLUDING LATERALS, SERVICES, AND POWER OR GAS CONDUITS WILL BE IN PLACE BEFORE SUBGRADE PROOF ROLL WILL TAKE PLACE.
- ASPHALT CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF W.L.S.C.S. DIVISION 205. 2" BASE LIFT SHALL BE CLASS "B" A.C. AND 2" FINAL LIFT SHALL BE CLASS "C" A.C. MEETING THE SPECIFICATIONS OF W.L.S.C.S. DIVISION 505. THE TOP LIFT OF ASPHALT CONCRETE SHALL NOT BE PLACED PRIOR TO RECEIVING PERMISSION FROM THE CITY OF WEST LINN ENGINEERING DEPARTMENT.
- CONSTRUCT CURB AND GUTTER USING 3300 PSI CONCRETE MEETING THE SPECIFICATIONS OF W.L.S.C.S. DIVISION 205 (AFTER 28 DAYS) WITH MAXIMUM 1-1/2" AGGREGATE SIZE. CONTRACTION JOINTS AT 15' MAXIMUM ON CENTERS. THREE INCH WEEPHOLES ARE TO BE INSTALLED ON ALL LOTS UPHILL OR EVEN WITH THE STREET. GENERALLY, WEEPHOLES SHALL BE LOCATED AT THE CENTER AND LOWEST EDGE OF CURB FOR EACH LOT. CONTRACTOR SHALL STAMP LOCATION OF SEWER AND WATER CROSSINGS WITH AN (S) OR A (W). A PROOF ROLL OF THE CURBLINES IS REQUIRED PRIOR TO POURING CURBS.
- ALL MATERIALS, INSTALLATION, TESTS, AND INSPECTIONS TO BE IN STRICT ACCORDANCE WITH CITY OF WEST LINN PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS.
- A STREET CONSTRUCTION ENCROACHMENT PERMIT OR SIMILAR PERMIT MAY BE REQUIRED FROM THE CITY OF WEST LINN. CONSTRUCTION PERMIT FEES OR OTHER SIMILAR FEES OR BONDING REQUIRED OF THE CONTRACTOR WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN.

SEDIMENT FENCE

- THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST.
- THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS, WHERE FEASIBLE. THEN FENCE POSTS SHALL BE SPACED A MAXIMUM OF SIX FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 18 INCHES.
- A TRENCH SHALL BE EXCAVATED, ROUGHLY 6 INCHES WIDE BY 6 INCHES DEEP, UPSLOPE AND ADJACENT TO THE WOOD POST TO ALLOW THE FILTER FABRIC TO BE BURIED. BURY THE BOTTOM OF THE FABRIC 6" VERTICALLY BELOW FINISHED GRADE. ALL AREAS OF FILTER FABRIC TRENCH SHALL BE COMPACTED.
- THE FILTER FABRIC SHALL BE INSTALLED WITH STITCHED LOOPS OVER FENCE POSTS. THE FENCE POST SHALL BE CONSTRUCTED OF 2" X 2" FIR, PINE, OR STEEL. THE FENCE POST MUST BE A MINIMUM OF 48" LONG. THE FILTER FABRIC SHALL NOT BE STAPLED OR ATTACHED TO EXISTING TREES.
- SEDIMENT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- SEDIMENT FENCES SHALL BE INSPECTED BY APPLICANT/CONTRACTOR IMMEDIATELY AFTER EACH RAINFALL, AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

GENERAL NOTES

- ALL REFERENCES TO CITY DESIGN STANDARDS REFER TO THE CURRENT STANDARDS.
- THE DESIGN ENGINEER WILL BE RESPONSIBLE FOR INSPECTION OF THE PROPOSED IMPROVEMENTS WITH OVERSIGHT FROM THE CITY'S PUBLIC WORKS AND ENGINEERING STAFF.
- A WORK SCHEDULE WILL BE REQUIRED FROM THE CONTRACTOR SO THAT THE ENGINEER CAN HAVE AN INSPECTOR ONSITE AT THE APPROPRIATE TIMES. IF THE WORK SCHEDULE IS REVISED THE CONTRACTOR IS TO NOTIFY THE ENGINEER AT LEAST 24 HOURS NOTICE OF ANY TESTING REQUIRING THE PRESENCE OF THE ENGINEER AND/OR CITY STAFF.
- THE CONTRACTOR IS TO RECEIVE THE APPROVAL OF THE ENGINEER AND THE CITY OF ANY PROPOSED CHANGES TO THE PLANS OR STANDARD REQUIREMENTS.
- A BUILDING DEPARTMENT PLUMBING PERMIT IS REQUIRED FOR UTILITIES BEYOND THE FIRST CLEANOUT OR METER ON PRIVATE PROPERTY.
- A PUBLIC IMPROVEMENT GUARANTEE AGREEMENT OR A PUBLIC WORKS PERMIT, A PRE-CONSTRUCTION MEETING WITH THE CITY OF WEST LINN, AND INSTALLATION OF EROSION CONTROL MEASURES ARE REQUIRED PRIOR TO BEGINNING CONSTRUCTION.
- PRIOR TO SITE CLEARING, 8' TALL CHAIN-LINK FENCING SHALL BE PLACED AT TREE EASEMENT BOUNDARIES PRIOR TO SITE GRADING. THE CITY ARBORIST SHALL INSPECT & APPROVE ALL ONSITE TREE PROTECTION MEASURES PRIOR TO THE START OF THE SITE WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE CITY ARBORIST AND ARRANGE FOR THIS APPROVAL TO TAKE PLACE. NO PERMITS WILL BE ISSUED FROM ENGINEERING, PLANNING, OR BUILDING DEPARTMENTS WITHOUT TREE PROTECTION APPROVAL FROM THE CITY ARBORIST. ALL TREE PROTECTION MEASURES SHALL REMAIN IN PLACE AND FULLY FUNCTIONAL FOR THE ENTIRE TIME THAT SITE WORK AND CONSTRUCTION IS TAKING PLACE.
- A CITY REPRESENTATIVE AND A REPRESENTATIVE OF THE ENGINEER MUST BE PRESENT AT ALL TESTING AND THE CITY SHALL BE FURNISHED A COPY OF ALL TEST RESULTS. IF ENGINEER OR CITY DO NOT WITNESS TESTING, CONTRACTOR WILL BE REQUIRED TO RE-TEST.
- ALL FEES FOR STREET TREES SHALL BE PAID TO THE CITY OF WEST LINN PARKS AND RECREATION DEPARTMENT.
- NO BUILDING PERMITS WILL BE GIVEN UNTIL THE IMPROVEMENTS HAVE BEEN ACCEPTED BY THE CITY AS SUBSTANTIALLY COMPLETE.
- CONTRACTOR SHALL VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES AND POINTS OF CONNECTION PRIOR TO ORDERING MANHOLES. IF DISCREPANCIES ARE FOUND, CONTRACTOR SHALL NOTIFY THE ENGINEER.

RECORD DRAWING

03/17/2015

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GENERAL NOTES

HARPER'S TERRACE

SUBDIVISION

LF 10, LLC
WEST LINN, OR



J.T. SMITH
companies



Digital Signature
03/17/2015

3J CONSULTING, INC.

CIVIL ENGINEERING
WATER RESOURCES
LAND USE PLANNING

5075 SW GRIFFITH DRIVE, STE 150, BEAVERTON, OR 97005
PHONE & FAX: (503) 946-5685

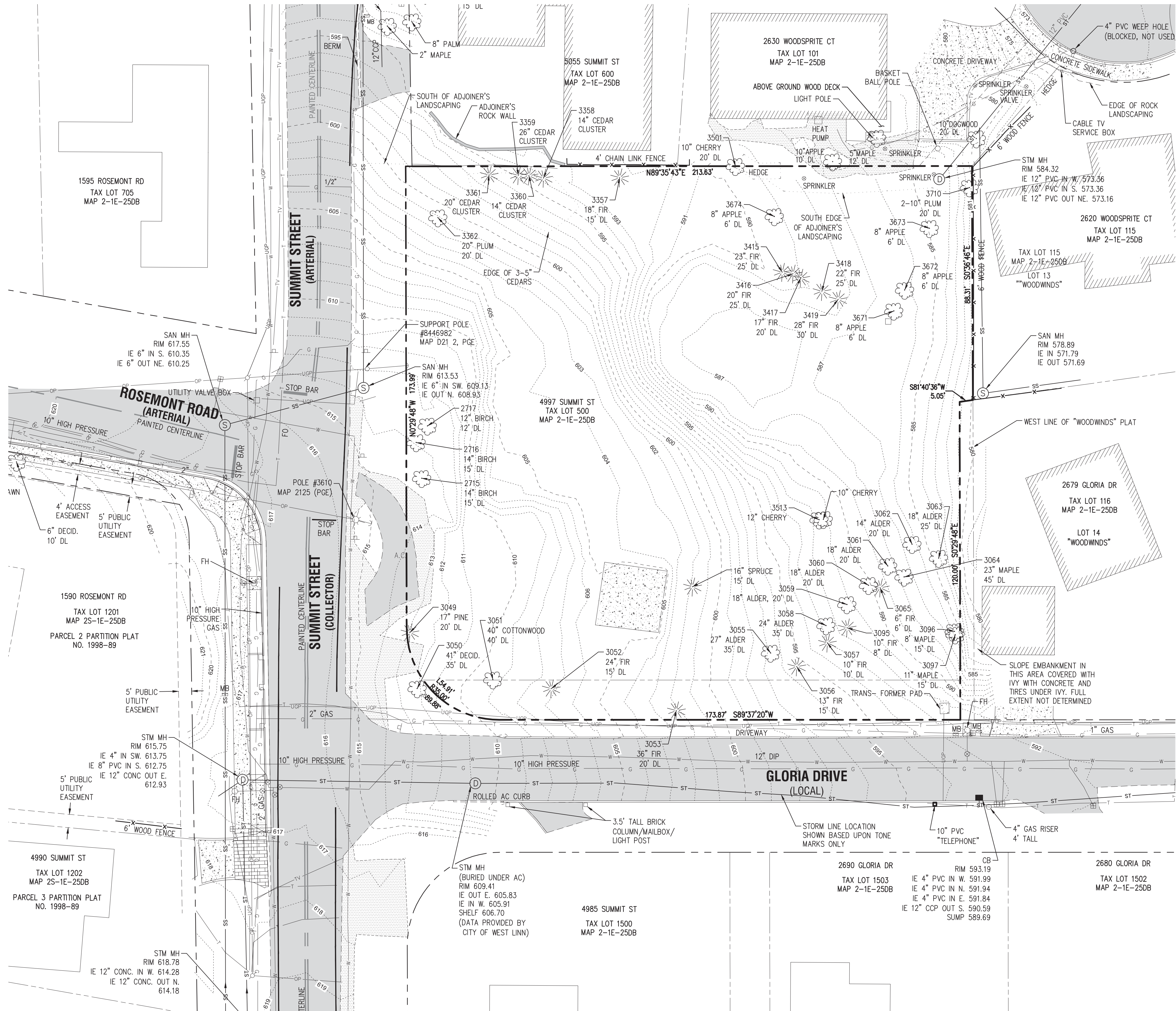
3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 251E25DB 500
DESIGNED BY | CLF/BCH
CHECKED BY | JDH

SHEET TITLE
GENERAL NOTES

SHEET NUMBER

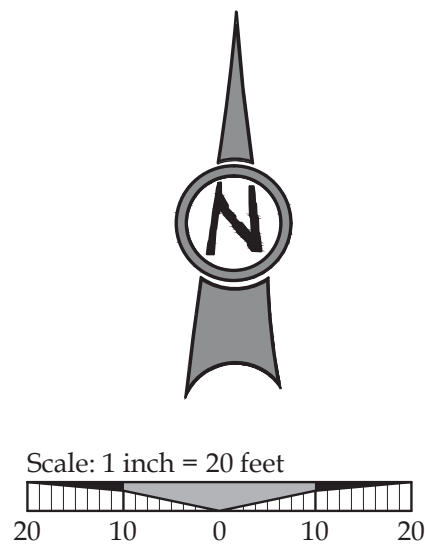
C002

TAX LOT 500 LOCATED IN THE NW 1/4 & SE 1/4 OF
SECTION 25, T.2S., R.1E., W.M.
CITY OF WEST LINN, CLACKAMAS COUNTY, OREGON



EXISTING CONDITIONS PLAN

THIS PLAN IS INTENDED FOR USE AS AN EXISTING CONDITIONS PLAN SHOWING THE CONDITIONS OF THE SITE PRIOR TO CONSTRUCTION. INFORMATION SHOWN ON THIS PLAN WAS DEVELOPED FROM THE TOPOGRAPHIC SURVEY, AERIAL PHOTOS, AND SITE OBSERVATIONS BY THE ENGINEER. NOT ALL SURFACE FEATURES OR UTILITIES MAY BE SHOWN. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION TO DETERMINE WORK SPECIFIC DETAILS. TOPOGRAPHIC INFORMATION PROVIDED BY COMPASS ENGINEERING DATED APRIL, 2013.



LEGEND

	BOUNDARY LINE		CURB
	RIGHT-OF-WAY		ASPHALT
	CENTERLINE		SIDEWALK
	LOT LINE		GRAVEL
	BUILDING		EXISTING TREES
	1 FT CONTOUR		LIGHT POLE
	SANITARY SEWER		TRAFFIC SIGN
	STORM SEWER		WATER VALVE
	WATER LINE		WATER METER
	GAS LINE		SPRINKLER VALVE
	UNDERGROUND POWER		FIRE HYDRANT
	UNDERGROUND PHONE LINE		
	OVERHEAD POWER		
	SANITARY SEWER MANHOLE		
	SANITARY SEWER MANHOLE		

NOTES

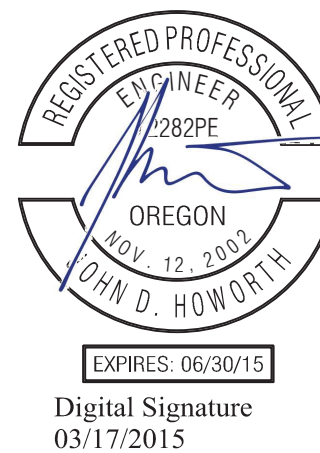
- UTILITY INFORMATION SHOWN ON THIS MAP IS BASED UPON OBSERVED FEATURES, RECORD DATA AND TONE MARKS PROVIDED BY PUBLIC UTILITY LOCATION SERVICES. NO WARRANTIES ARE MADE REGARDING THE ACCURACY OR COMPLETENESS OF THE UTILITY INFORMATION SHOWN. ADDITIONAL UTILITIES MAY EXIST. INTERESTED PARTIES ARE HEREBY ADVISED THAT UTILITY LOCATIONS SHOULD BE VERIFIED PRIOR TO DESIGN OR CONSTRUCTION OF ANY CRITICAL ITEMS.
- BASIS OF ELEVATIONS: NAVD '88.
- VERTICAL DATUM: NAVD '88 UTILIZING GPS POSITIONING TIED TO THE ORGN WITH REAL TIME CORRECTORS REFERENCED TO NAD '83 (2011).
- TOPOGRAPHIC FEATURES SHOWN ON THIS MAP WERE LOCATED USING STANDARD PRECISION TOPOGRAPHIC MAPPING PROCEDURES. THIRD PARTY USERS OF DATA FROM THIS MAP PROVIDED VIA AUTOCAD DRAWING FILES OR DATA EXCHANGE FILES SHOULD NOT RELY ON ANY AUTOCAD GENERATED INFORMATION WHICH IS BEYOND THE LIMITS OF PRECISION OF THIS MAP. THIRD PARTIES USING DATA FROM THIS MAP IN AN AUTOCAD FORMAT SHOULD VERIFY ANY ELEMENTS REQUIRING PRECISE LOCATIONS PRIOR TO COMMENCEMENT OF ANY CRITICAL DESIGN OR CONSTRUCTION. CONTACT COMPASS ENGINEERING FOR FURTHER INFORMATION. FURTHERMORE, COMPASS ENGINEERING WILL NOT BE RESPONSIBLE NOR HELD LIABLE FOR ANY DESIGN OR CONSTRUCTION RELATED PROBLEMS THAT ARISE OUT OF THIRD PARTY USAGE OF THIS MAP (IN AUTOCAD OR OTHER FORMAT) FOR ANY PURPOSE OTHER THAN SPECIFICALLY STATED HEREIN. THIS STATEMENT IS AN OFFICIAL PART OF THIS MAP.

RECORD DRAWING
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EXISTING CONDITIONS PLAN
HARPER'S TERRACE
SUBDIVISION
LF 10, LLC
WEST LINN, OR

J.T. SMITH
companies

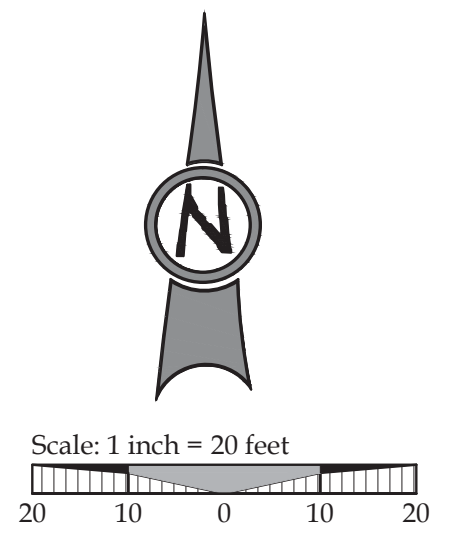
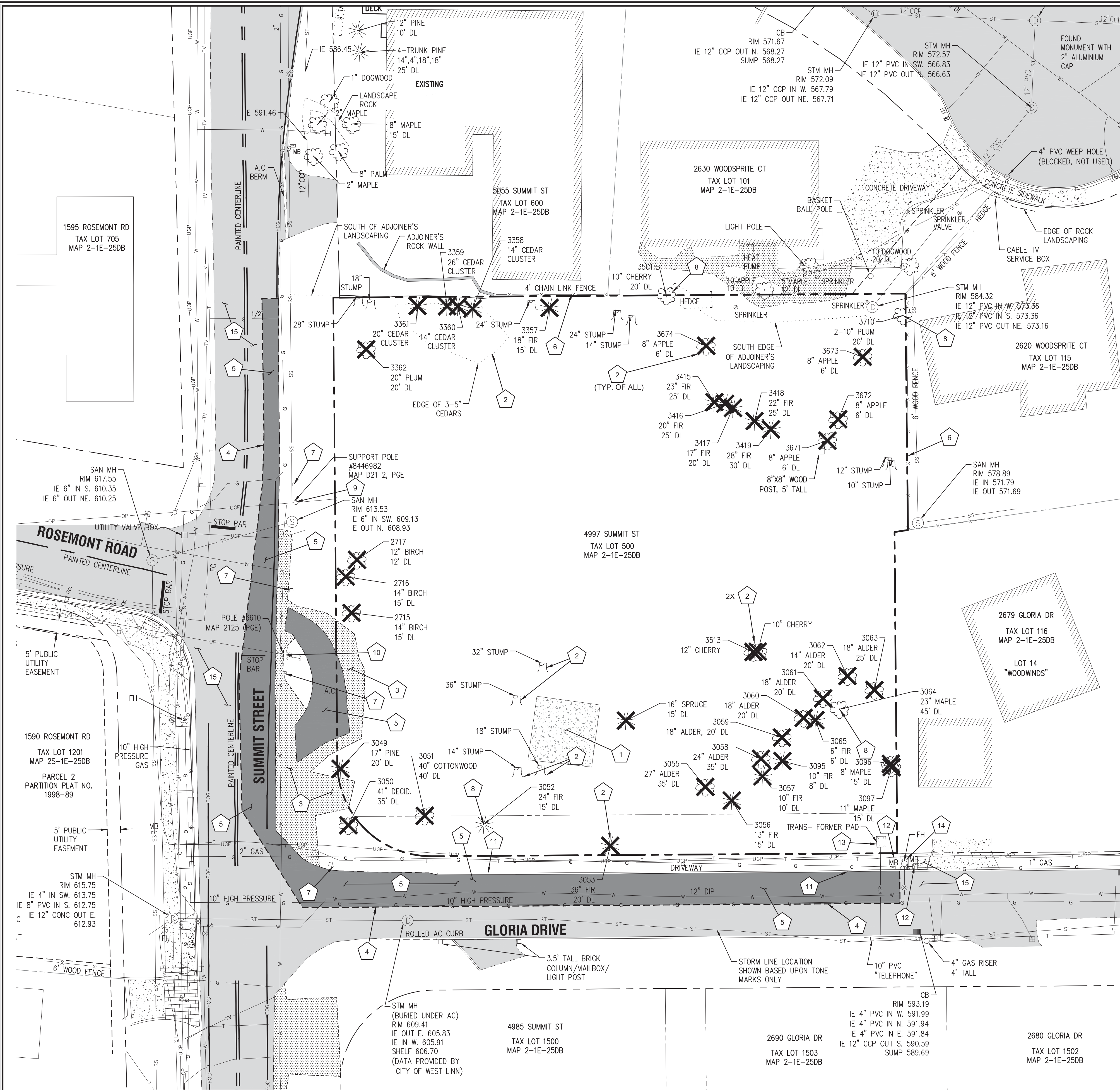


3J CONSULTING, INC.

CIVIL ENGINEERING
WATER RESOURCES
LAND USE PLANNING
5075 SW GRIFFITH DRIVE, STE 150, BEAVERTON, OR 97005
PHONE & FAX: (503) 946-5665

3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 251E25DB 500
DESIGNED BY | CLF/BC
CHECKED BY | JDH
SHEET TITLE
EXISTING COND.'S
SHEET NUMBER

C100



LEGEND			
	BOUNDARY LINE		ASPHALT TO BE REMOVED
	RIGHT-OF-WAY		SIDEWALK/CONCRETE
	CENTERLINE		GRAVEL
	LOT LINE		EXISTING TREES
	BUILDING		LIGHT POLE
	SANITARY SEWER		TRAFFIC SIGN
	STORM SEWER		WATER VALVE
	WATER LINE		WATER METER
	GAS LINE		SPRINKLER VALVE
	UNDERGROUND POWER		FIRE HYDRANT
	UNDERGROUND PHONE LINE		
	OVERHEAD POWER		
	CURB		
	SAWCUT LINE		
	EXISTING TREE TO BE REMOVED		

DEMOLITION KEY	
1	DEMOLISH AND REMOVE EXISTING CONCRETE BUILDING PAD. DEBRIS AND REFUSE TO BE DISPOSED OFF-SITE AT AN APPROVED LOCATION.
2	REMOVE EXISTING TREE/LANDSCAPING NECESSARY TO INSTALL IMPROVEMENTS, SEE SHEET C102. ALL EXISTING TREE STUMPS TO BE REMOVED AND DISPOSED OF OFF-SITE.
3	REMOVE EXISTING GRAVEL SHOULDER/DRIVEWAY. DISPOSE OF RUBBLE AND REFUSE OFF-SITE.
4	SAWCUT EXISTING ASPHALT/CONCRETE PAVEMENT AS SHOWN (4' MIN. WIDTH). SAWCUT FULL DEPTH TO LIMIT DAMAGE OF ADJACENT STREET SURFACE DURING REMOVAL.
5	REMOVE EXISTING ASPHALT SURFACING AND BASE ROCK. DISPOSE OF RUBBLE AND REFUSE OFF SITE.
6	PROTECT EXISTING FENCING TO REMAIN.
7	REMOVE AND REPLACE EXISTING STREET SIGNS
8	PROTECT EXISTING TREE TO REMAIN (TYPICAL) , SEE SHEET C102.
9	PGE TO RELOCATE EXISTING SUPPORT POLE . CONTRACTOR TO COORDINATE WITH PORTLAND GENERAL ELECTRIC.
10	REMOVE EXISTING SUPPORT POLE, LIGHT AND FIXTURE. CONTRACTOR TO COORDINATE WITH PORTLAND GENERAL ELECTRIC.
11	REMOVE EXISTING CONCRETE CURB. DISPOSE OF RUBBLE AND REFUSE OFF-SITE.
12	RELOCATE EXISTING MAILBOX BEHIND SIDEWALK. CONTRACTOR TO COORDINATE WITH PROPERTY OWNER.
13	PROTECT EXISTING TRANSFORMER AND PRIMARY CABLE.
14	RELOCATE EXISTING FIRE HYDRANT, SEE SHEET C400 FOR IMPROVEMENT PLANS. CONTRACTOR TO COORDINATE WITH CITY OF WEST LINN PUBLIC.
15	PROTECT EXISTING PAVEMENT/SIDEWALK TO REMAIN, SEE SHEETS C200 AND C201.

- GENERAL DEMOLITION NOTES**
- DEMOLITION NOTES ARE FOR CLARIFICATION ONLY AND ARE SHOWN FOR THE CONTRACTOR'S BENEFIT. THESE NOTES ARE NOT INTENDED TO BE COMPREHENSIVE. THE CONTRACTOR SHALL REMOVE OR RELOCATE ALL EXISTING ON-SITE IMPROVEMENTS NECESSARY TO ACCOMMODATE THE PROPOSED CONSTRUCTION.
 - ALL EXISTING PROPERTY UTILITY SERVICES TO BE TERMINATED AND CAPPED AT THE RIGHT OF WAY PRIOR TO DEMOLISHING ANY EXISTING BUILDINGS.
 - CONTRACTOR IS TO REMOVE ALL EXISTING SURFACE IMPROVEMENTS AND DEBRIS WITHIN THE LIMITS OF WORK UNLESS OTHERWISE NOTED. ALL DEBRIS FOUND ON SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE STATE CODES.
 - CONTRACTOR TO PROTECT EXISTING FEATURES WHICH ARE TO REMAIN.
 - CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE RIMS, DRAINAGE STRUCTURES, VALVE BOXES, VAULT LIDS AND UTILITY ACCESS STRUCTURES TO FINISH GRADE WITHIN AREAS AFFECTED BY PROPOSED CONSTRUCTION.
 - CONSTRUCTION AND DEMOLITION ACTIVITIES SHALL BE PHASED IN SUCH A MANNER AS TO ENSURE THAT PUBLIC ACCESS ROADS ARE NOT BLOCKED AND REMAIN OPERATIONAL.
 - SEE TREE PROTECTION AND REMOVAL PLAN (SHEET C12) FOR ALL TREE REMOVAL INFORMATION.



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DEMOLITION PLAN
HARPER'S TERRACE
SUBDIVISION
LF 10, LLC
WEST LINN, OR

J.T. SMITH
companies

REGISTERED PROFESSIONAL
ENGINEER
282PE
OREGON
NOV. 12, 2003
JOHN D. HOWARTH
EXPIRES: 06/30/15
Digital Signature
03/17/2015

3J CONSULTING, INC.

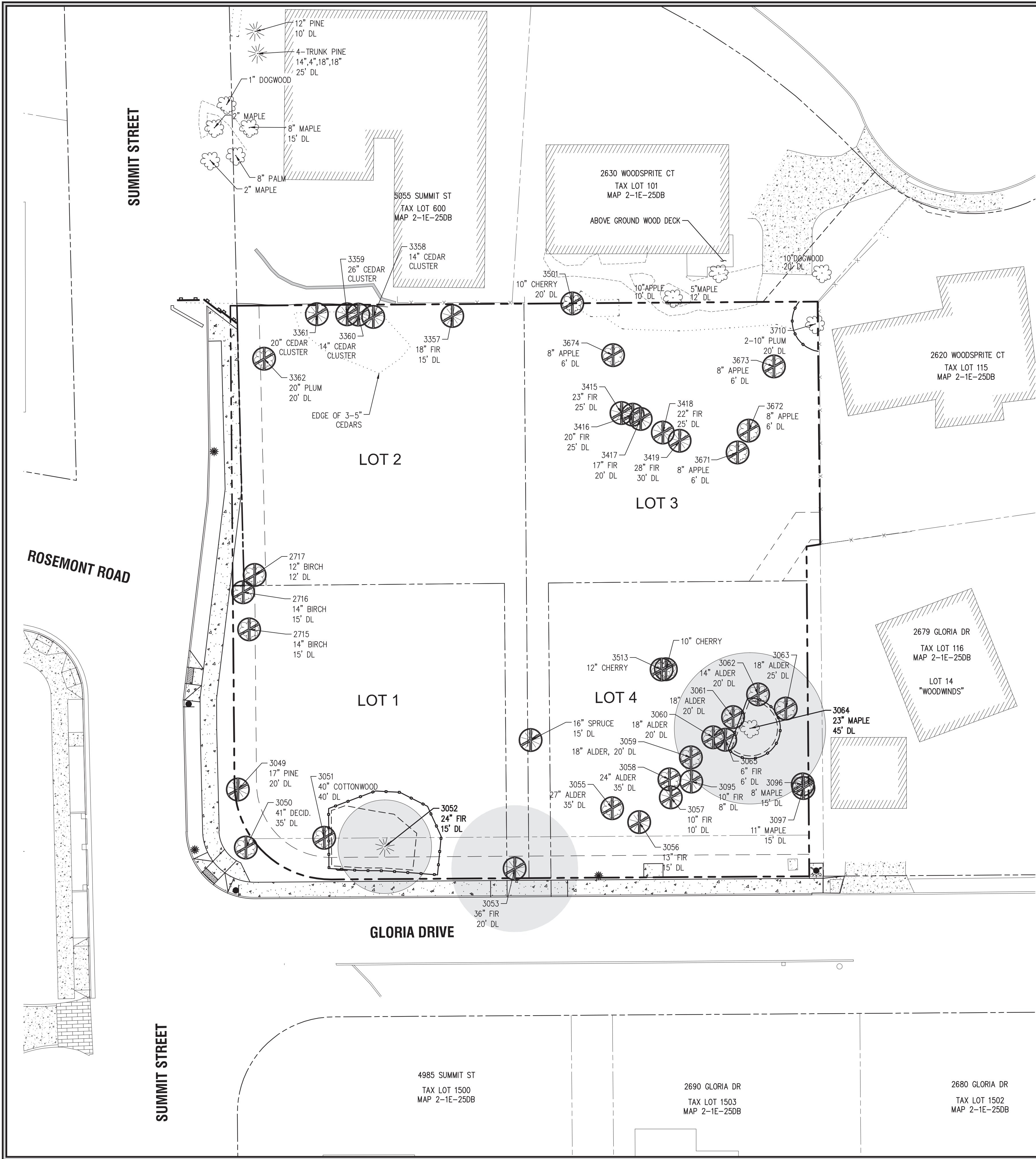
CIVIL ENGINEERING
WATER RESOURCES
LAND USE PLANNING

5075 SW GRIFFITH DRIVE, STE 150, BEAVERTON, OR 97005
PHONE & FAX: (503) 946-5685

3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 251E25DB 500
DESIGNED BY | CLF/BCH
CHECKED BY | JDH

SHEET TITLE
DEMOLITION

SHEET NUMBER
C101



TREE INVENTORY

SURVEY POINT NUMBER	TREE SPECIES	NOMINAL CALIPER SIZE (INCHES)	PROPOSED ACTION	SIGNIFICANT DESIGNATION	REMOVE DUE TO CONDITION
2715	EUROPEAN WHITE BIRCH	14	REMOVE	NO	INVASIVE SPECIES
2716	EUROPEAN WHITE BIRCH	14	REMOVE	NO	INVASIVE SPECIES
2717	EUROPEAN WHITE BIRCH	12	REMOVE	NO	INVASIVE SPECIES
3049	LODGE POLE PINE	17	REMOVE	NO	MECHANICAL DAMAGE
3050	PRINCESS TREE	41	REMOVE FROM ROW	NO	INVASIVE SPECIES
3051	BLACK COTTONWOOD	40	REMOVE	NO	BROKEN TOP, DECAY
3052	DOUGLAS FIR	24	SAVE	YES	NO MAJOR DEFECTS
3053	DOUGLAS FIR	36	REMOVE	YES	NO MAJOR DEFECTS
3054	SPRUCE	16	REMOVE	NO	POOR STEM STRUCTURE
3055	RED ALDER	27	REMOVE	NO	FORKED TOP BRANCH DECAY
3056	GRAND FIR	13	REMOVE	NO	FORKED TOP BRANCH DECAY
3057	GRAND FIR	10	REMOVE	NO	DEAD BRANCHES POOR CROWN
3058	RED ALDER	24	REMOVE	NO	BROKEN TOP, MULTI NEW TOPS
3059	RED ALDER	18	REMOVE	NO	12 DEG. LEAN
3060	RED ALDER	18	REMOVE	NO	BASAL, STEM DECAY
3061	RED ALDER	18	REMOVE	NO	BASAL, STEM DECAY
3062	RED ALDER	14	REMOVE	NO	MECH. DAMAGE, DECAY
3063	RED ALDER	18	REMOVE	NO	OVER-GROWN IVY
3064	BIGLEAF MAPLE	23	SAVE IF POSSIBLE	YES	8 DEG. LEAN, DECAY
3065	DOUGLAS FIR	6	REMOVE	NO	OVER-TOPPED, SUPPRESSED
3095	GRAND FIR	10	REMOVE	NO	SMALL CROWN, DECAY
3096	BIGLEAF MAPLE	8	REMOVE	NO	POOR CONDITION
3097	BIGLEAF MAPLE	11	REMOVE	NO	POOR CONDITION
3357	NOBLE FIR	18	REMOVE	NO	SUSPECT INFESTATION
3358	PORT-ORFORD-CEDAR	14	REMOVE	NO	VERY POOR STRUCT.
3359	PORT-ORFORD-CEDAR	14	REMOVE	NO	VERY POOR STRUCT.
3360	PORT-ORFORD-CEDAR	26	REMOVE	NO	VERY POOR STRUCT.
3361	PORT-ORFORD-CEDAR	20	REMOVE	NO	VERY POOR STRUCT. DECAY IN JUNCTURE, NOT MAINTAINED
3362	PLUM	20	REMOVE	NO	TOPPED IN PAST, POOR STRUCT.
3415	DOUGLAS FIR	23	REMOVE	NO	TOPPED IN PAST, POOR STRUCT.
3416	DOUGLAS FIR	20	REMOVE	NO	TOPPED IN PAST, POOR STRUCT.
3417	DOUGLAS FIR	28	REMOVE	NO	TOPPED IN PAST, POOR STRUCT.
3418	DOUGLAS FIR	17	REMOVE	NO	CODOM STEMS, HISTORY OF FAILURE
3419	DOUGLAS FIR	22	REMOVE	NO	BROKEN TOP, DECAY IN JUNCTURE
3501	SWEET CHERRY	10	REMOVE	NO	INVASIVE SPECIES
3513	SWEET CHERRY	10,12	REMOVE	NO	INVASIVE SPECIES
3671	APPLE	8	REMOVE	NO	DECAY
3672	APPLE	8	REMOVE	NO	DECAY
3673	APPLE	8	REMOVE	NO	DECAY
3674	APPLE	8	REMOVE	NO	DECAY
3710	PLUM	2"10	PROTECT ADJACENT TREE	NO	PROTECTION FENCING AT PROPERTY LINE




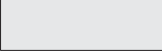



GENERAL TREE INVENTORY STATISTICS

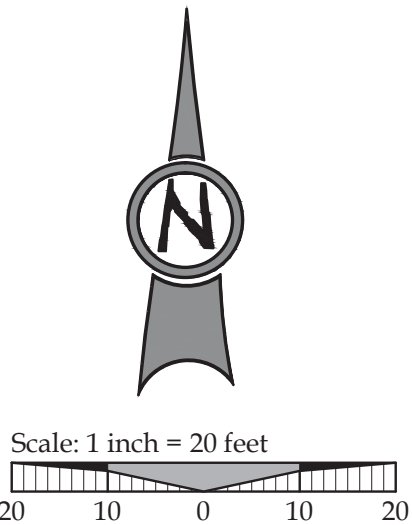
TOTAL TREE INVENTORY:	41 ea
TOTAL TREES RETAINED:	4 ea
TOTAL TREES REMOVED:	37 ea
TREES REMOVED DUE TO CONDITION:	34 ea
TOTAL TREE CALIPER INCHES:	738 inches
TOTAL CALIPER INCHES RETAINED:	103 inches
TOTAL CALIPER INCHES REMOVED:	635 inches

SIGNIFICANT TREE STATISTICS

SIGNIFICANT TREE INVENTORY:	3 ea
SIGNIFICANT TREES RETAINED:	2 ea
SIGNIFICANT TREES REMOVED:	1 ea
SIGNIFICANT TREE CALIPER INCHES:	83 inches
SIGNIFICANT CALIPER INCHES RETAINED:	47 inches
SIGNIFICANT CALIPER INCHES REMOVED:	36 inches
SIGNIFICANT TREE CANOPY COVERAGE:	3,061 Sq. Ft.
SIGNIFICANT TREE CANOPY RETAINED:	2,043 Sq. Ft.
SIGNIFICANT TREE CANOPY RETENTION:	67%
PRESERVATION EASEMENT AREA PROVIDED:	612 Sq. Ft.

LEGEND

-  - EXISTING SIGNIFICANT DECIDUOUS TREE
-  - EXISTING SIGNIFICANT CONIFEROUS TREE
-  - TREE POINT, TYPE, CALIPER AND DRIP LINE
-  - SIGNIFICANT TREE CANOPY
-  - TREE TO BE REMOVED
-  - TREE PROTECTION FENCING
-  - TREE PROTECTION AREA



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TREE PROTECTION AND REMOVAL PLAN

HARPER'S TERRACE

SUBDIVISION

LF 10, LLC
WEST LINN, OR

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companies

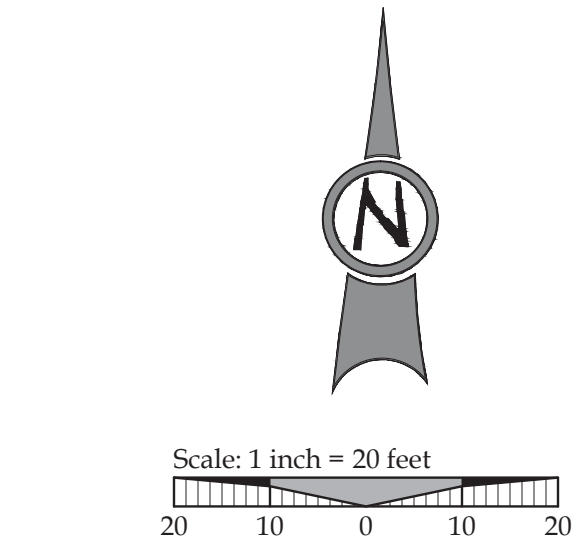
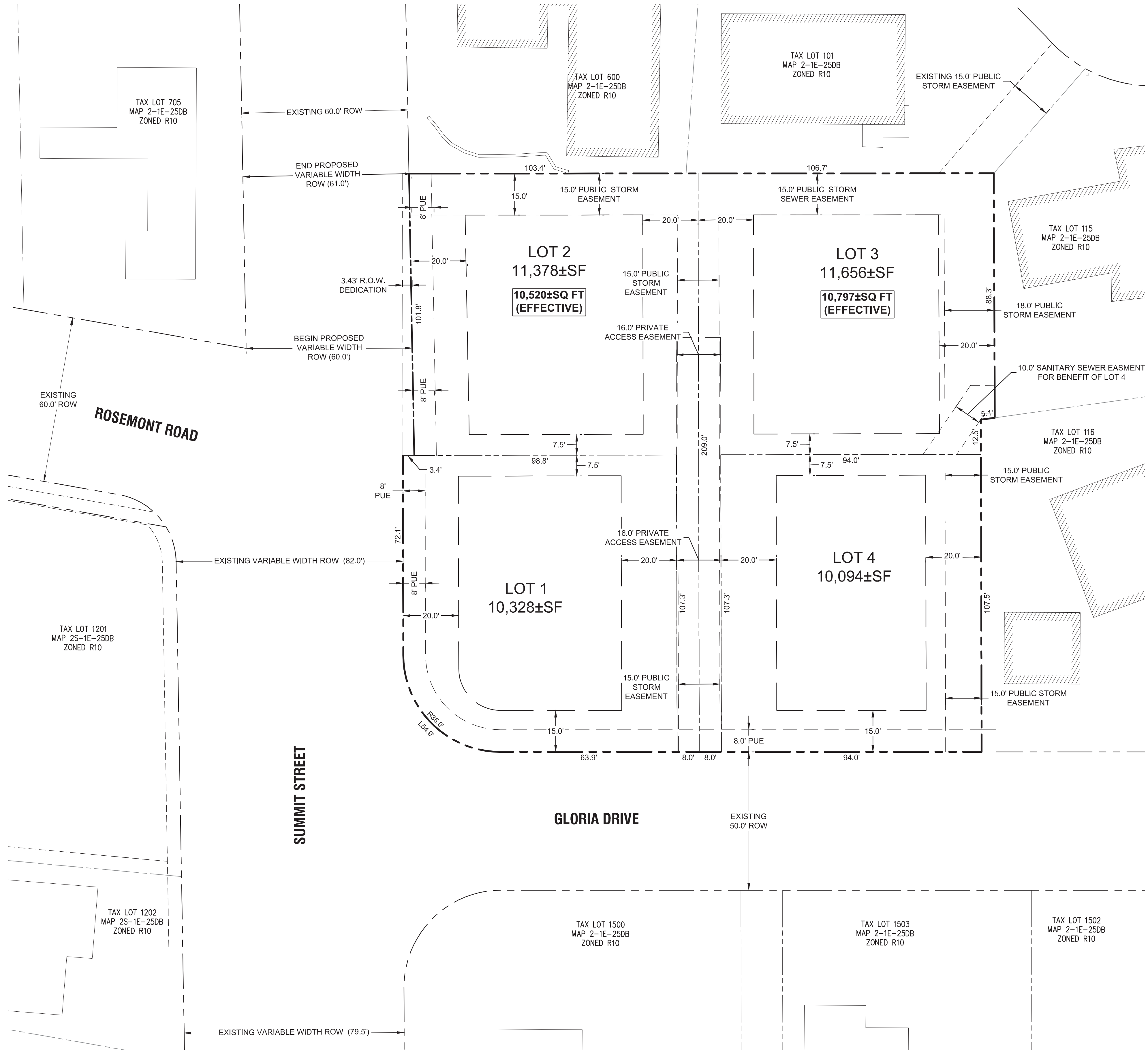


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3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 251E25DB 500
DESIGNED BY | CLF/BCH
CHECKED BY | JDH
SHEET TITLE
TREE PLAN
SHEET NUMBER

C102

TAX LOT 500 LOCATED IN THE NW 1/4 & SE 1/4 OF
SECTION 25, T.2S., R.1E., W.M.
CITY OF WEST LINN, CLACKAMAS COUNTY, OREGON



- LEGEND
- BOUNDARY LINE
 - EXISTING RIGHT-OF-WAY
 - EXISTING LOT LINE
 - EXISTING CURB
 - PROPOSED LOT LINE
 - PROPOSED SETBACK LINE

SITE STATISTICS	
SITE ADDRESS	4997 SUMMIT STREET WEST LINN, OR 97068
TAXLOT	2S1E25DB 500
JURISDICTION	CITY OF WEST LINN
GROSS SITE AREA	1.02 ACRES
PROPERTY ZONING	R-10
FLOOD HAZARD MAP NUMBER	41005C0257D ZONE X (UNSHADED)

SUBDIVISION STATISTICS	
RIGHT OF WAY DEDICATION	3,132 SF
MINIMUM ALLOWABLE EFFECTIVE LOT SIZE	10,000 SF
MINIMUM LOT DENSITY	3.2 UNITS
MAXIMUM LOT DENSITY	4.58 UNITS
PROPOSED LOT DENSITY	4.21 UNITS/ NET ACRE
MINIMUM LOT DENSITY (PER R-10 ZONING)	3.05 UNITS/ NET ACRE
MAXIMUM LOT DENSITY (PER R-10 ZONING)	4.35 UNITS/ NET ACRE
SETBACKS:	
FRONT	20 FEET
SIDE	7.5 FEET
REAR	20 FEET
STREET SIDE	15 FEET
MAX. HEIGHT	35 FEET

PROJECT TEAM

OWNER/APPLICANT

LF 10, LLC
C/O: J.T. SMITH COMPANIES
5285 MEADOWS ROAD, SUITE #171
LAKE OSWEGO, OR 97035
CONTACT: JOHN WYLAND
EMAIL: jwyland@jtsmithco.com

CIVIL ENGINEER

3J CONSULTING, INC.
5075 SW GRIFFITH DRIVE, SUITE 150
BEAVERTON, OR 97005
CONTACT: JOHN HOWORTH
PHONE: (503) 946-9365
EMAIL: john.howorth@3j-consulting.com

PLANNING
CONSULTANT

3J CONSULTING, INC.
5075 SW GRIFFITH DRIVE, SUITE 150
BEAVERTON, OR 97005
CONTACT: ANDREW TULL
PHONE: 503-946-9365
EMAIL: andrew.tull@3j-consulting.com

GEOTECHNICAL
CONSULTANT

GEOPACIFIC ENGINEERING, INC.
14835 SW 72ND AVENUE
PORTLAND, OR 97224
CONTACT: SCOTT HARDMAN
PHONE: (503) 625-4455
EMAIL: shardman@geopacificeng.com

LAND SURVEYOR

COMPASS SURVEYING
4107 SE INTERNATIONAL WAY, SUITE 705
MILWAUKIE, OR 97222
CONTACT: DON DEVLAE MINCK, PLS
PHONE: 503-653-9093
EMAIL: dond@compass-engineering.com

RECORD DRAWING

03/17/2015
This drawing has been prepared to reflect constructed deviations from permit documents. The basis of this information is derived in whole or in part from a combination of:

- Contractor supplied redlines
- Site observations by the engineer
- Field notes
- The stamping engineer of record certifies this drawing is an accurate portrayal of the final construction, and the resulting improvements are in conformance with the standards of the City of West Linn.

TENTATIVE SUBDIVISION PLAT
HARPER'S TERRACE
SUBDIVISION

LF 10, LLC
WEST LINN, OR



Digital Signature
03/17/2015



3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 2S1E25DB 500
DESIGNED BY | CLF/BCH
CHECKED BY | JDH

SHEET TITLE
TENTATIVE PLAT

SHEET NUMBER

C110



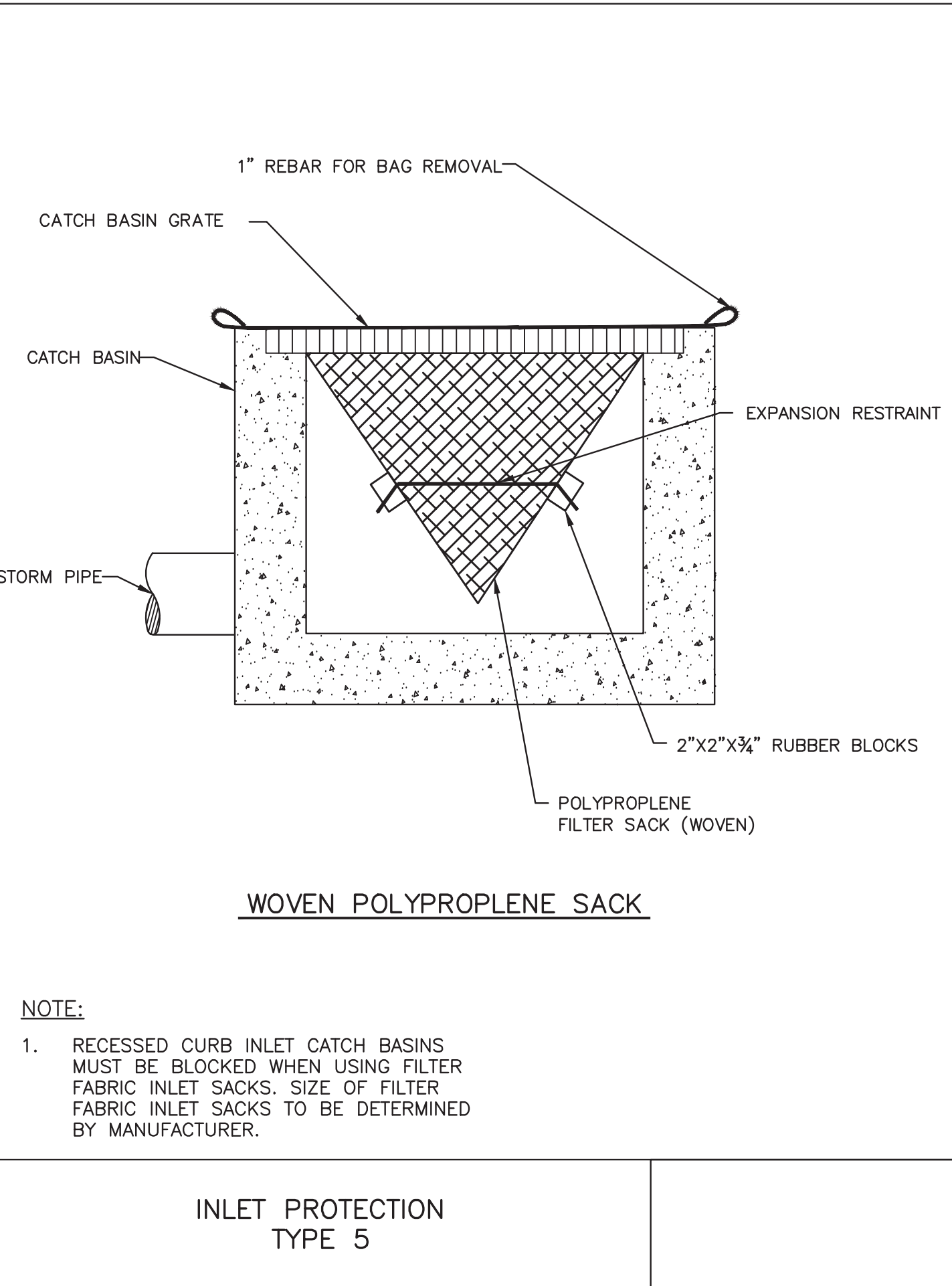
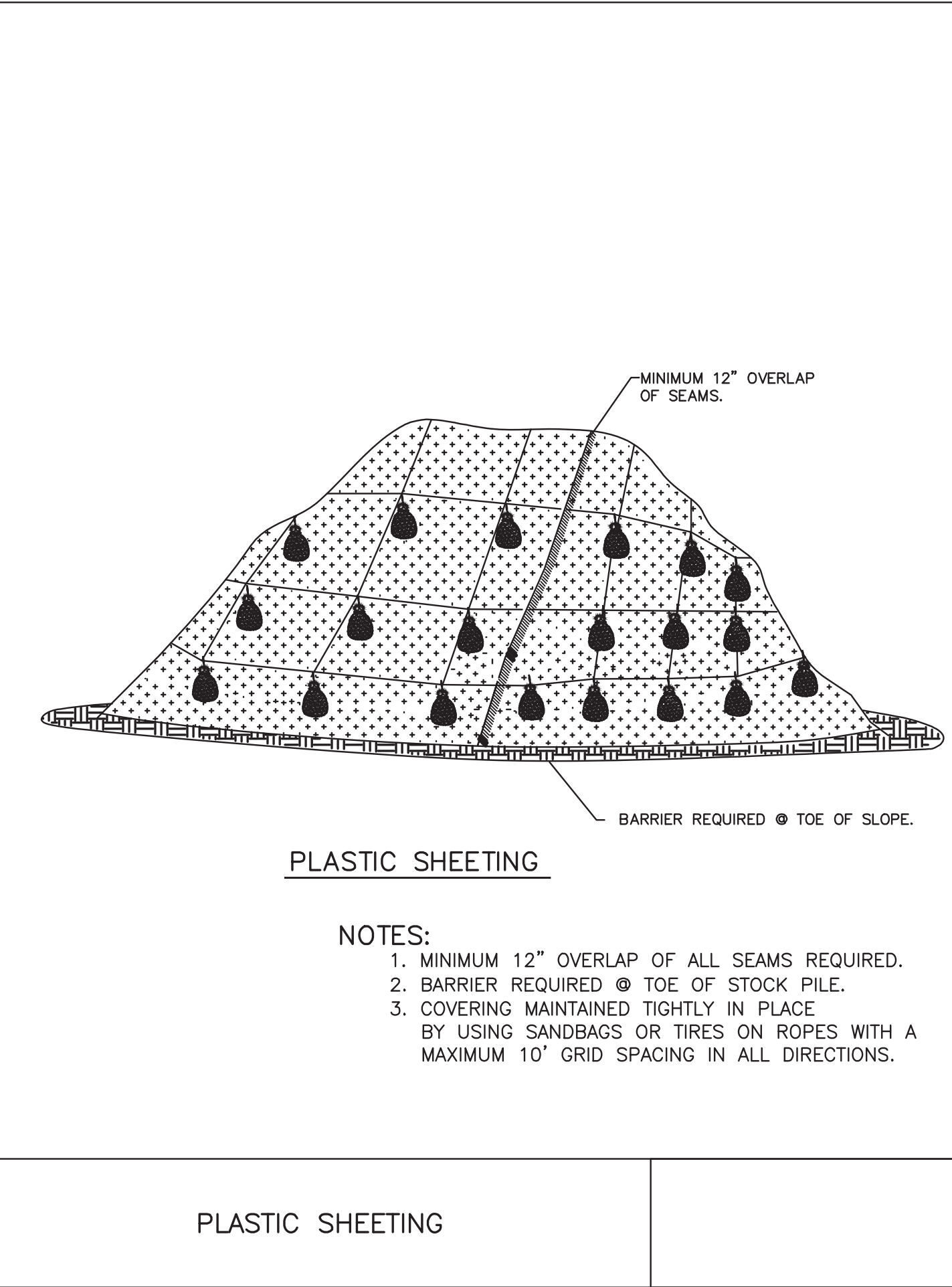
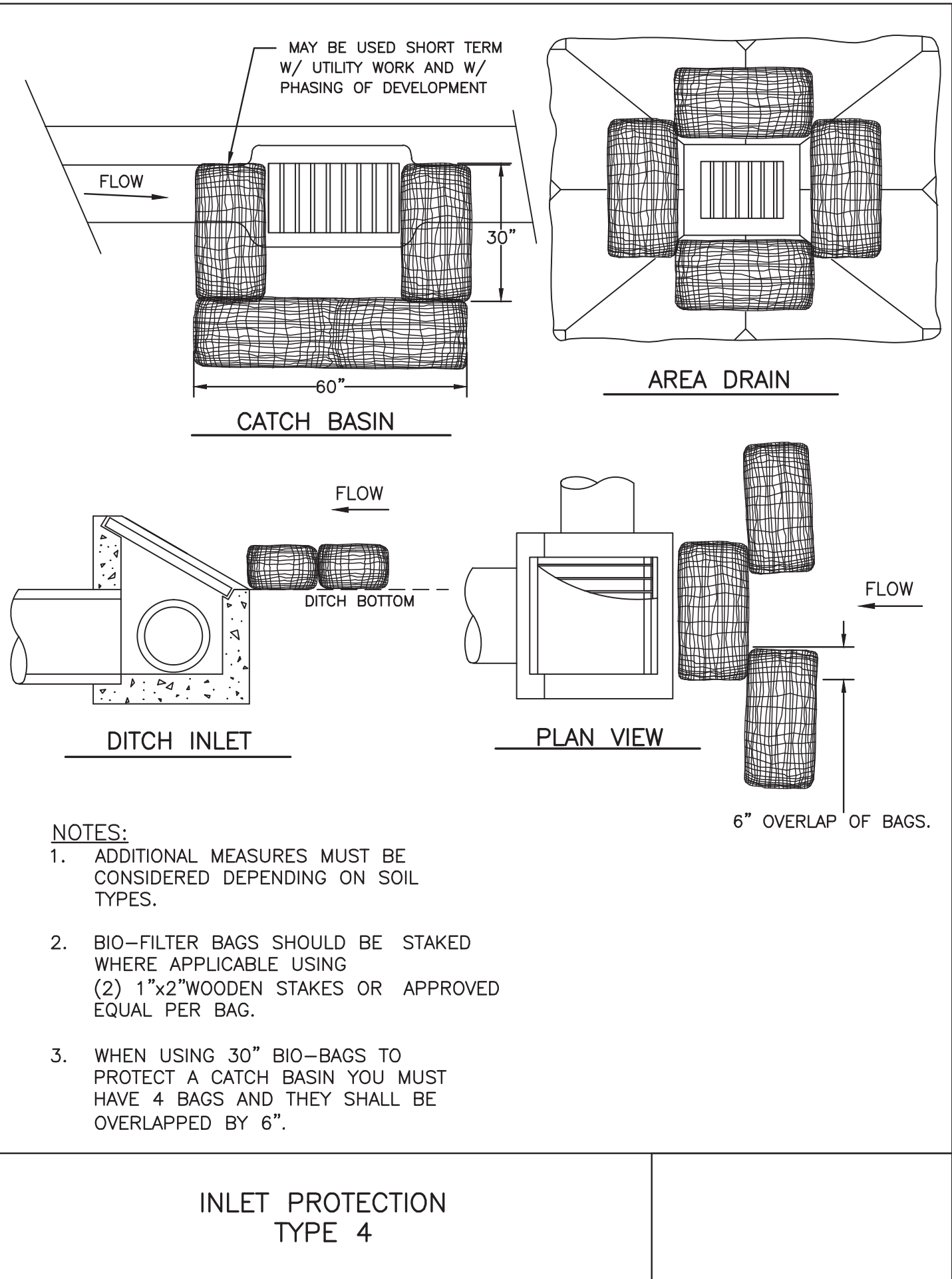
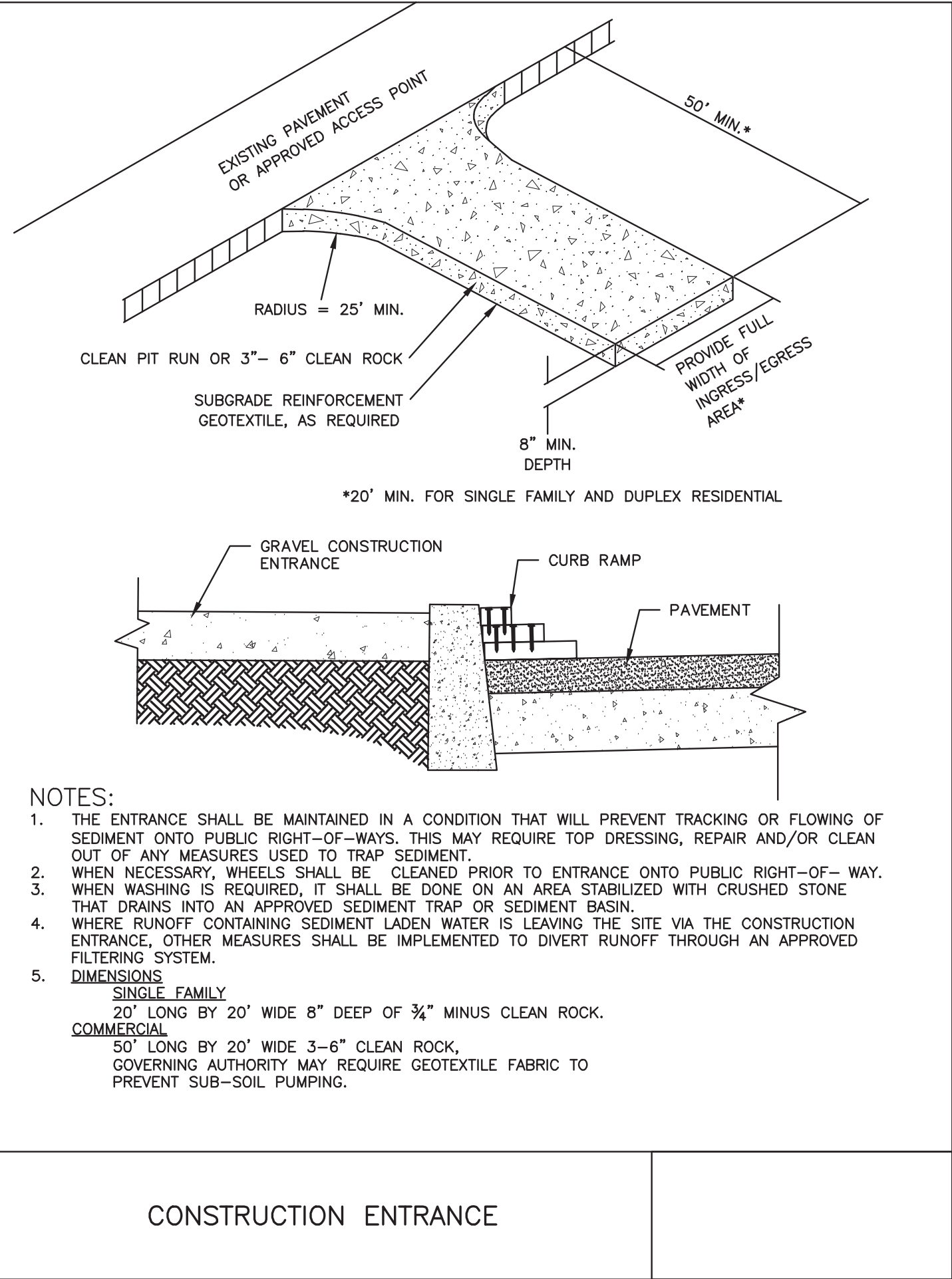
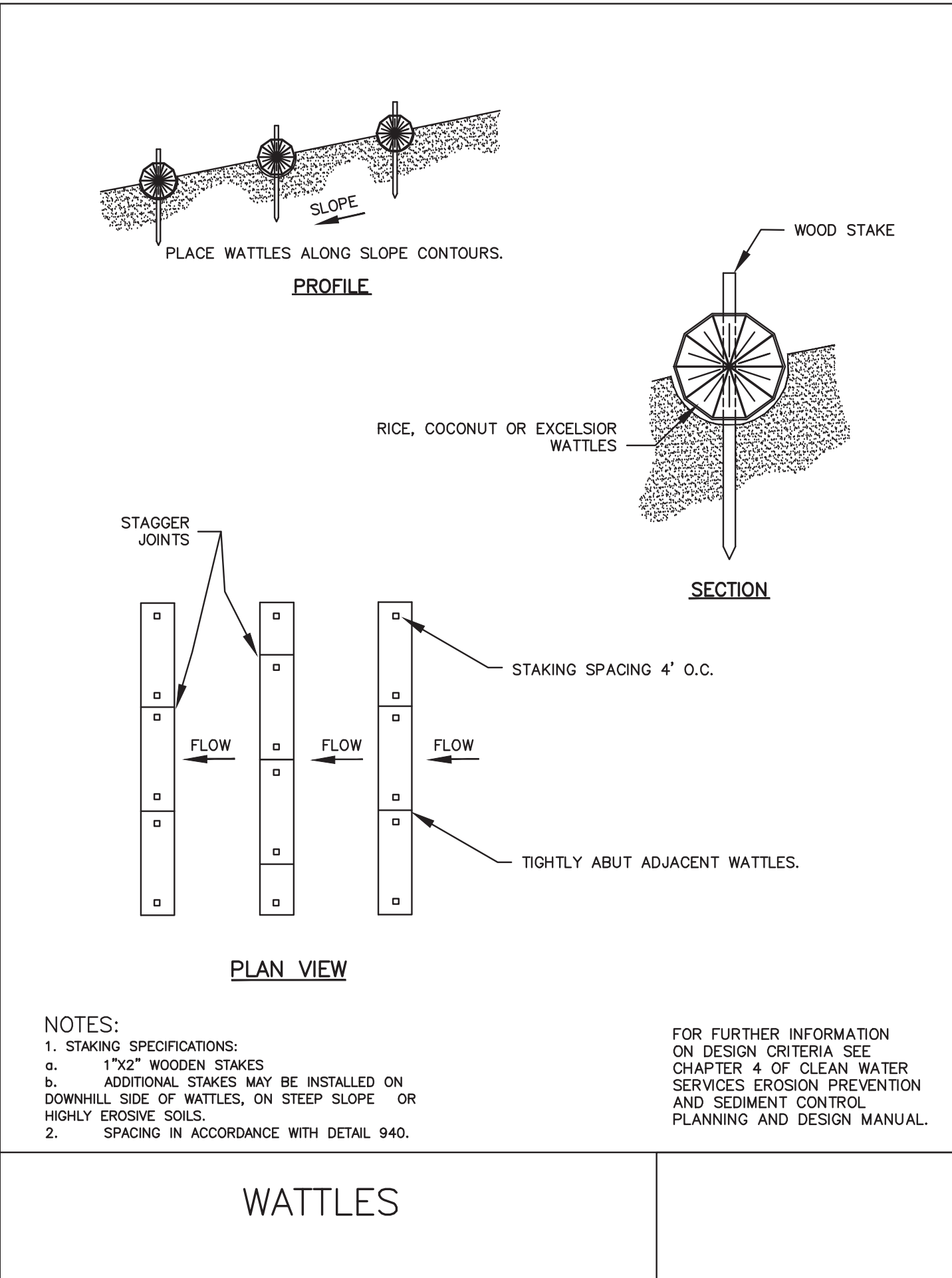
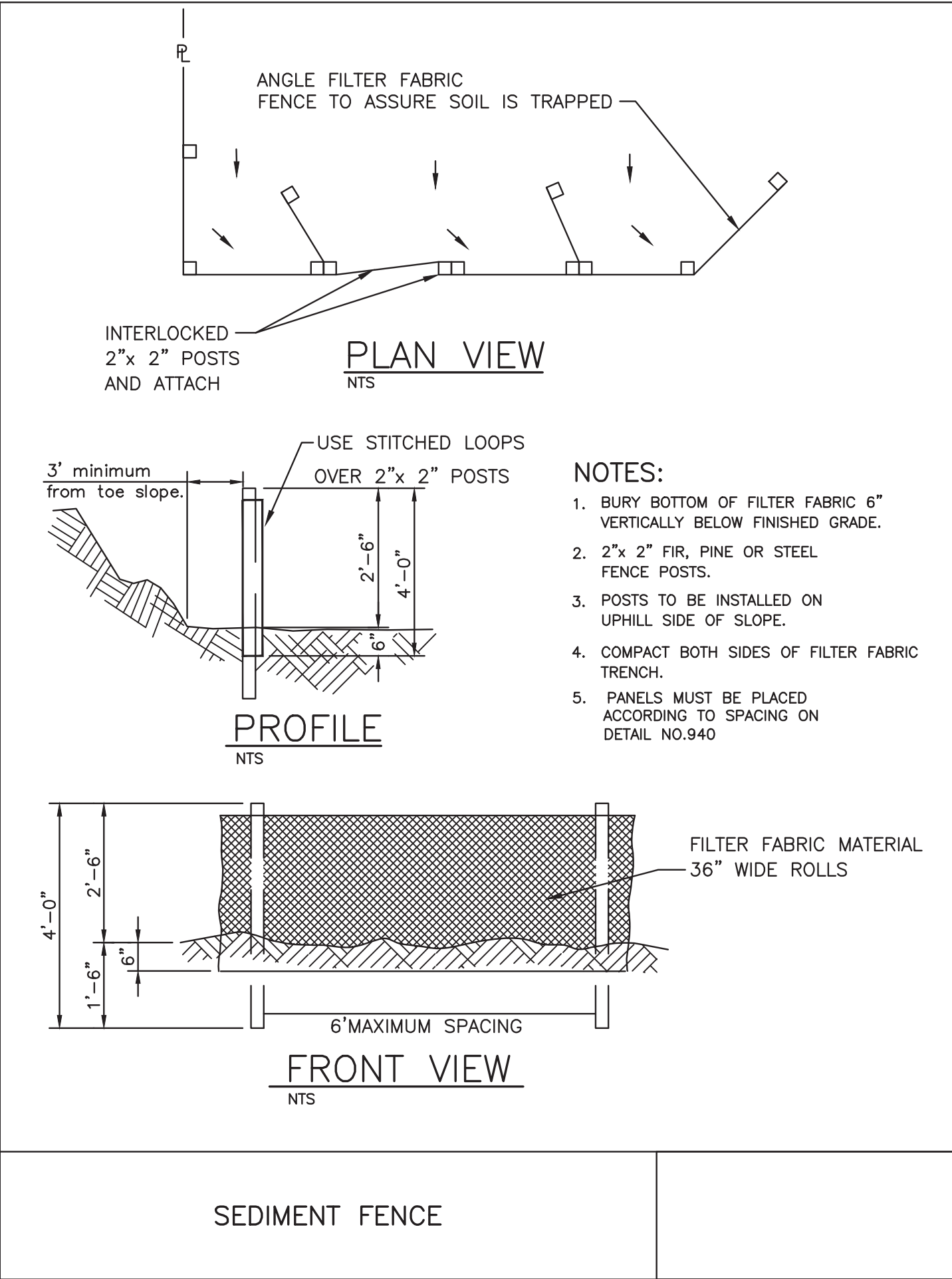
C120

EROSION AND SEDIMENT CONTROL PLAN NOTES

1. APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES.
2. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND ON SLOPES FROM OCTOBER 1 THROUGH MAY 31 EACH YEAR.
3. DURING WET WEATHER PERIODS TEMPORARY STABILIZATION OF THE SITE MUST OCCUR AT THE END OF EACH WORKDAY IF RAINFALL IS FORECAST IN THE NEXT 24 HOURS.
4. ALL EROSION AND SEDIMENT CONTROLS NOT IN THE DIRECT PATH OF WORK MUST BE INSTALLED PRIOR TO ANY LAND DISTURBANCE.
5. PRESERVE EXISTING VEGETATION AND RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION.
6. ALL TEMPORARY SEDIMENT CONTROLS MUST REMAIN IN PLACE UNTIL PERMANENT VEGETATION OR OTHER PERMANENT COVERING OF EXPOSED SOIL IS ESTABLISHED.
7. SEDIMENT CONTROLS MUST BE INSTALLED AND MAINTAINED ON ALL DOWN GRADIENT SIDES OF THE CONSTRUCTION SITE AT ALL TIMES DURING CONSTRUCTION.
8. ALL ACTIVE CATCH BASINS SEDIMENT CONTROLS MUST HAVE SEDIMENT CONTROLS INSTALLED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
9. WATER-TIGHT TRUCKS MUST BE USED TO TRANSPORT SATURATED SOILS FROM THE CONSTRUCTION SITE. AN APPROVED EQUIVALENT IS TO DRAIN THE SOIL ON-SITE AT A DESIGNATED LOCATION USING APPROPRIATE BMPs SOIL MUST BE DRAINED SUFFICIENTLY FOR MINIMAL SPILLAGE.
10. TEMPORARY STABILIZATION OR COVERING OF SOIL STOCKPILES MUST OCCUR AT THE END OF EACH WORKDAY OR OTHER BMPs MUST BE IMPLEMENTED TO PREVENT TURBID DISCHARGES TO SURFACE WATERS.
11. DEVELOP AND MAINTAIN ON-SITE A WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURE.
12. ANY USE OF TOXIC OR OTHER HAZARDOUS MATERIALS MUST INCLUDE PROPER STORAGE, APPLICATION, AND DISPOSAL.
13. THE PERMITEE MUST PROPERLY PREVENT AND MANAGE HAZARDOUS WASTES. USED OILS, CONTAMINATED SOILS, CONCRETE WASTE, SANITARY WASTE, LIQUID WASTE, OR OTHER TOXIC SUBSTANCES DISCOVERED OR GENERATED DURING CONSTRUCTION AND MEET ALL STATE AND FEDERAL REGULATIONS AND APPROVALS.
14. SIGNIFICANT AMOUNTS OF SEDIMENT, WHICH LEAVES THE SITE, MUST BE CLEANED UP WITHIN 24 HOURS BACK ON THE SITE AND STABILIZED OR PROPERLY DISPOSED. THE CAUSE OF THE SEDIMENT RELEASE MUST BE FOUND AND PREVENTED FROM CAUSING A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DIVISION OF STATE LANDS REQUIRED TIME FRAME.
15. SEDIMENT MUST NOT BE INTENTIONALLY WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATERBODIES. DRY SWEEPING MUST BE USED TO CLEAN UP RELEASED SEDIMENTS.
16. THE APPLICATION RATE OF FERTILIZERS USED TO RE-ESTABLISH VEGETATION MUST FOLLOW THE MANUFACTURER'S RECOMMENDATIONS. NUTRIENT RELEASES FROM FERTILIZERS TO SURFACE WATERS MUST BE MINIMIZED. TIME RELEASE FERTILIZERS SHOULD BE USED AND CARE SHOULD BE TAKEN IN THE APPLICATION OF FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE.
17. SEDIMENT MUST BE REMOVED FROM BEHIND A SEDIMENT FENCE WHEN IT HAS REACHED A HEIGHT OF 1/3 THE HEIGHT OF THE FENCE ABOVEGROUND AND BEFORE FENCE REMOVAL.
18. SEDIMENT MUST BE REMOVED FROM BEHIND BIO BAGS AND OTHER BARRIERS WHEN IT HAS REACHED A HEIGHT OF TWO (2) INCHES AND BEFORE BMP REMOVAL.
19. CLEANING OF TRAPPED CATCH BASINS MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY (50) PERCENT, AND AT THE COMPLETION OF A PROJECT.
20. REMOVAL OF TRAPPED SEDIMENT IN A SEDIMENT BASIN OR SEDIMENT TRAP OR CATCH BASINS MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY (50) PERCENT AND AT COMPLETION OF PROJECT.
21. DEQ MUST APPROVE OF ANY TREATMENT SYSTEM AND OPERATIONAL PLAN THAT MAY BE NECESSARY TO TREAT CONTAMINATED CONSTRUCTION DEWATERING OR SEDIMENT AND TURBIDITY IN STORMWATER RUNOFF.
22. SHOULD ALL CONSTRUCTION ACTIVITIES CEASE FOR THIRTY DAYS OR MORE, THE ENTIRE SITE MUST BE TEMPORARILY STABILIZED USING VEGETATION OR A HEAVY MULCH LAYER, TEMPORARY SEEDING, OR OTHER METHOD.
23. SHOULD CONSTRUCTION ACTIVITIES CEASE FOR FIFTEEN (15) DAYS OR MORE ON ANY SIGNIFICANT PORTION OF A CONSTRUCTION SITE TEMPORARY STABILIZATION IS REQUIRED FOR THAT PORTION OF THE SITE WITH STRAW, COMPOST, OR OTHER TACKIFIED COVERING THAT PREVENT SOIL OR WIND EROSION UNTIL WORK RESUMES ON THAT PORTION OF THE SITE.

LOCAL AGENCY SPECIFIC EROSION CONTROL NOTES

1. OWNER OR DESIGNATED PERSON SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE LOCAL, STATE, AND FEDERAL REGULATIONS.
2. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BOUNDARIES OF THE CLEARING LIMITS, VEGETATED BUFFERS, AND ANY SENSITIVE AREAS SHOWN O THIS PLAN SHALL BE CLEARLY DELINEATED LID IN THE FIELD. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE IS PERMITTED BEYOND THE CLEARING LIMITS. THE OWNER/PERMILIE MUST MAINTAIN THE DELINEATION FOR THE DURATION OF THE PROJECT. NOTE: VEGETATED CORRIDORS TO BE DELINEATED WITH ORANGE CONSTRUCTION FENCE OR APPROVED EQUAL.
3. PRIOR TO ANY LAND DISTURBING ACTIVITIES, THE BMPs THAT MUST BE INSTALLED ARE A GRAVEL CONSTRUCTION ENTRANCE, PERIMETER SEDIMENT CONTROL, AND INLET PROTECTION. THESE BMPs MUST BE MAINTAINED FOR THE DURATION OF THE PROJECT.
4. IF VEGETATED SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAN SEPTEMBER 1; THE TYPE AND PERCENTAGES OF SEED IN THE MIX MUST BE IDENTIFIED ON THE PLANS.
5. THE ESC PLAN MUST BE KEPT ON SITE. ALL MEASURES SHOWN ON THE PLAN MUST BE INSTALLED PROPERLY TO ENSURE THAT SEDIMENT OR SEDIMENT LADEN WATER DOES NOT ENTER A SURFACE WATER SYSTEM, ROADWAY, OR OTHER PROPERTIES.
6. THE ESC MEASURES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE MEASURES SHALL BE UPGRADED AS NEEDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL EROSION CONTROL REGULATIONS.
7. ALL EXPOSED SOILS MUST BE COVERED DURING THE WET WEATHER PERIOD.



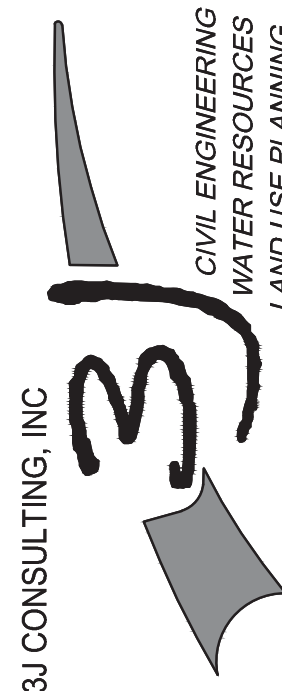
EROSION AND SEDIMENT CONTROL DETAILS

HARPER'S TERRACE
SUBDIVISION

LF 10, LLC
WEST LINN, OR



EXPIRES: 06/30/15
Digital Signature
03/17/2015



3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 251E25D6 500
DESIGNED BY | CLF/BC/H
CHECKED BY | JDH

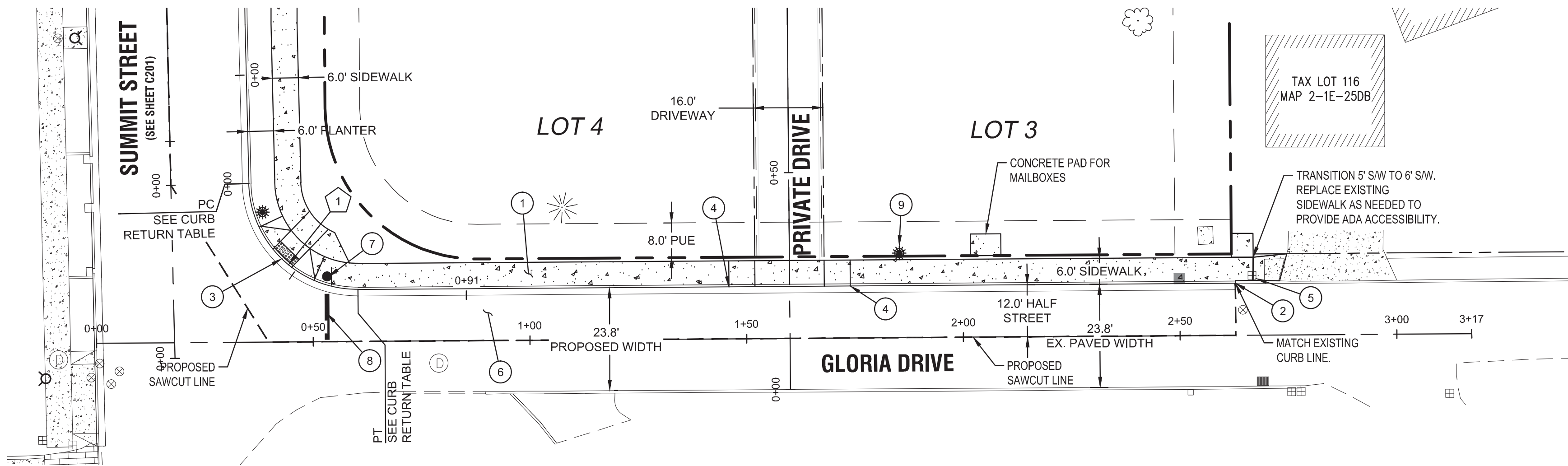
SHEET TITLE
ESCP DETAILS
SHEET NUMBER

C121

RECORD DRAWING
03/17/2015

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- Contractor supplied redlines
 - Site observations by the engineer
 - Field notes
- The stamping engineer of record certifies this drawing is an accurate portrayal of the final construction, and the resulting improvements are in conformance with the standards of the City of West Linn.



LEGEND

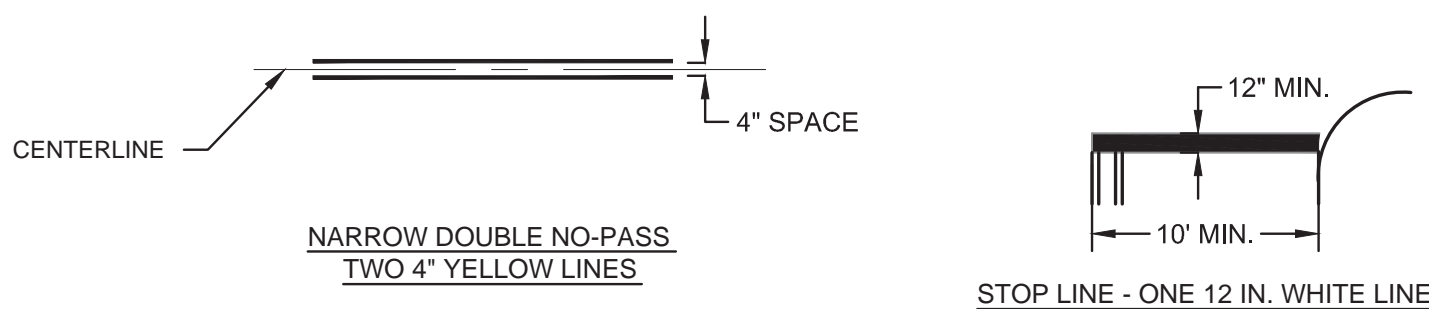
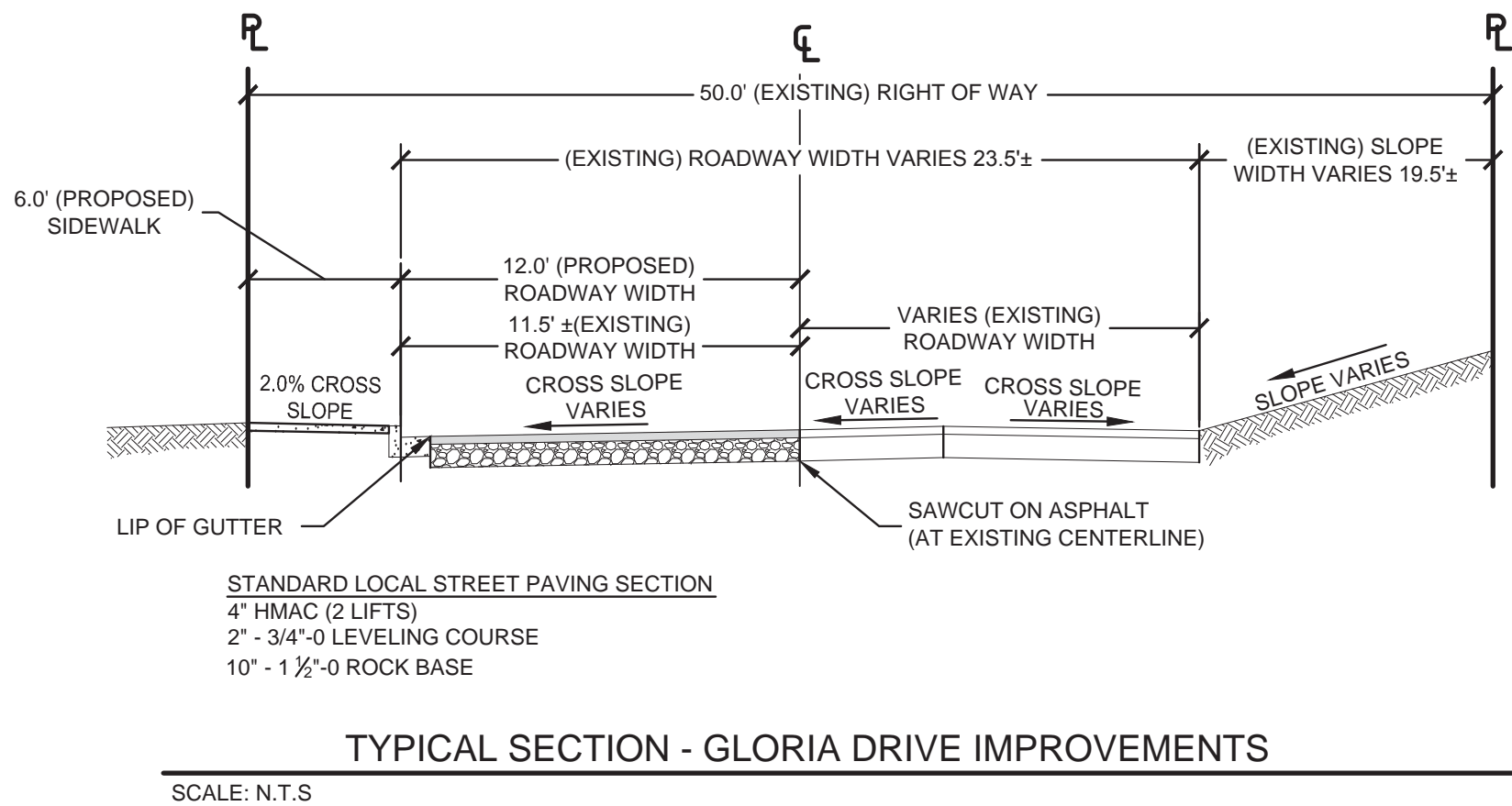
	BOUNDARY LINE		EXISTING TREES TO REMAIN
	RIGHT-OF-WAY		PROPOSED LOT LINE
	EXISTING EDGE OF ASPHALT		PROPOSED CURB AND GUTTER
	EXISTING CURB		PROPOSED CONCRETE
	EXISTING SIDEWALK		EXISTING ASPHALT SAW CUT LIMITS
	EXISTING LIGHT POLE		PROPOSED PAVEMENT STRIPING
	EXISTING TRAFFIC SIGN		
	EXISTING FIRE HYDRANT		

CONSTRUCTION KEY NOTES

- STA: 0+60.4, 12.5' LT TO STA: 2+69.6, 12.5' LT GLORIA DR: CONSTRUCT 6 FT WIDE CURB TIGHT SIDEWALK PER CITY OF WEST LINN STANDARD DETAIL WL-508 (CONCRETE SIDEWALK CROSS SECTION) ON SHEET C210.
- STA: 0+60.4, 12.0' LT TO STA: 2+62.9, 12.0' LT GLORIA DR: CONSTRUCT STANDARD CURB AND GUTTER PER CITY OF WEST LINN STANDARD DETAIL WL-501 (TYPICAL CURBS) ON SHEET C210.
- STA: 0+37.7, 26.5' LT TO STA: 0+50.3, 14.1' LT GLORIA DR: CONSTRUCT CURB RAMP PER CITY OF WEST LINN STANDARD DETAIL WL-506A (PARALLEL CURB RAMP) ON SHEET C211.
- STA: 1+46.0, 12.0' LT AND STA: 1+74.0, 12.0' LT GLORIA DR: CONSTRUCT SINGLE DRIVEWAY ACCESS TO GLORIA DRIVE (28 FT) PER CITY OF WEST LINN STANDARD DETAIL WL-503B (RESIDENTIAL DRIVEWAY WITH SIDEWALK ADJACENT TO CURB) ON SHEET C210.
- CONTRACTOR TO PROTECT EXISTING WATER METER FROM DAMAGE. RE-SET METER BOX FLUSH WITH FINISHED GRADE.
- RE-PAVE FROM SAWCUT LIMITS TO NEW LIP OF GUTTER WITHIN AREA SHOWN (APPROX. 2,750 SF). SEE LOCAL STREET PAVING REQUIREMENTS ON TYPICAL SECTION DETAIL THIS SHEET.
- STA: 0+53.33, 15.0' LT GLORIA DR: INSTALL STOP SIGN AND POST WITH V-LOC BREAKAWAY POST ANCHOR SYSTEM PER TYPICAL INSTALLATION DETAIL ON SHEET 211.
- STA: 0+53.22, 0.5' LT GLORIA DR: INSTALL STOP BAR STRIPING PER TYPICAL INSTALLATION DETAIL THIS SHEET.
- STA: 1+79.97, 14.41' RT AND STA: 1+54.6, 26.1' RT GLORIA DRIVE: INSTALL NEW LIGHT POLE BASE, JUNCTION BOX AND CONDUIT. BRONZE POLE, 6' MAST ARM, BETA LED FIXTURE APPROVED BY CITY OF WEST LINN. CONTRACTOR TO CONFIRM ALL LOCATIONS AND INSTALLATION REQUIREMENTS WITH PORTLAND GENERAL ELECTRIC.

GENERAL NOTES:

- REFER TO MITIGATION PLAN (C500) FOR ALL STREET TREE PLANTING LOCATIONS, DETAILS AND SPECIFICATIONS.

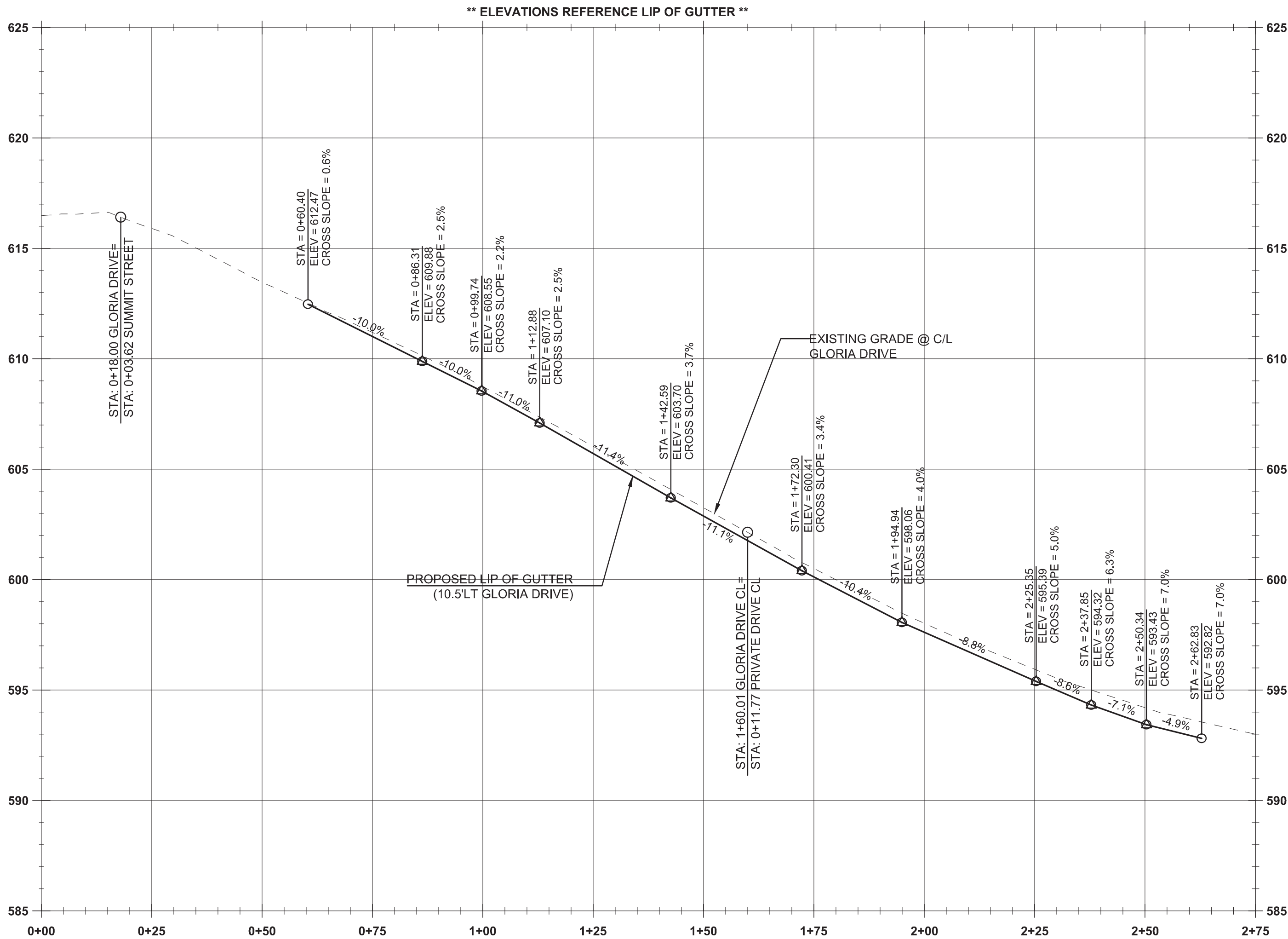


STRIPING NOTES

- STRIPING SHALL BE THERMOPLASTIC PAVEMENT MARKING MATERIAL.
- LOCATE STOP LINE 4' (MIN.) TO 10' (MAX.) IN ADVANCE OF THE NEAREST MARKED CROSSWALK LINE.
- ALL PAVEMENT MARKING MATERIALS SHALL BE INSTALLED AS PER OREGON STANDARD SPECIFICATIONS.



Know what's below.
Call before you dig.



GLORIA DRIVE - DRIVEWAY LOCATION TABLE

LOT NO.	DRIVEWAY C/L STATION	RAMP WIDTH
1 - 4	1+59.99	28FT

CURB RETURN TABLE

TAG NO.	PC STATION	DELTA	RADIUS	TANGENT	LENGTH	PT STATION	PC ELEV	1/4 Δ	1/2 Δ	3/4 Δ	PT ELEV
1	0+33.9, 36.58' LT	89°3'3"	26.5'	26.1'	41.2'	0+60.4, 10.5' LT	615.35	614.82	614.40	613.58	612.47

* ALL CURB STATIONING, GEOMETRY AND OFFSETS REFERENCE LIP OF PROPOSED GUTTER
* SEE C211 FOR CURB RETURN PROFILES AND 1/4 Δ ELEVATIONS

RECORD DRAWING
03/17/2015

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GLORIA DRIVE PLAN AND PROFILE
HARPER'S TERRACE
SUBDIVISION
LF 10, LLC
WEST LINN, OR

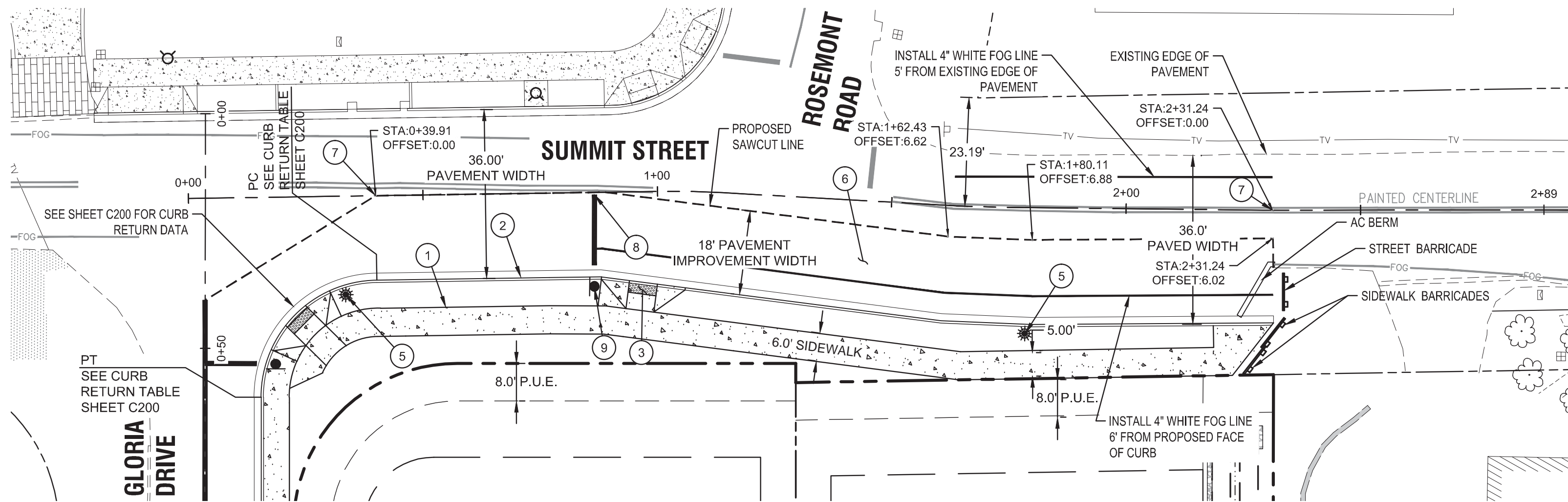
J.T. SMITH
companies

REGISTERED PROFESSIONAL
ENGINEER
282PE
OREGON
NOV. 12, 2007
JOHN D. HOWARTH
EXPIRES: 06/30/15
Digital Signature
03/17/2015

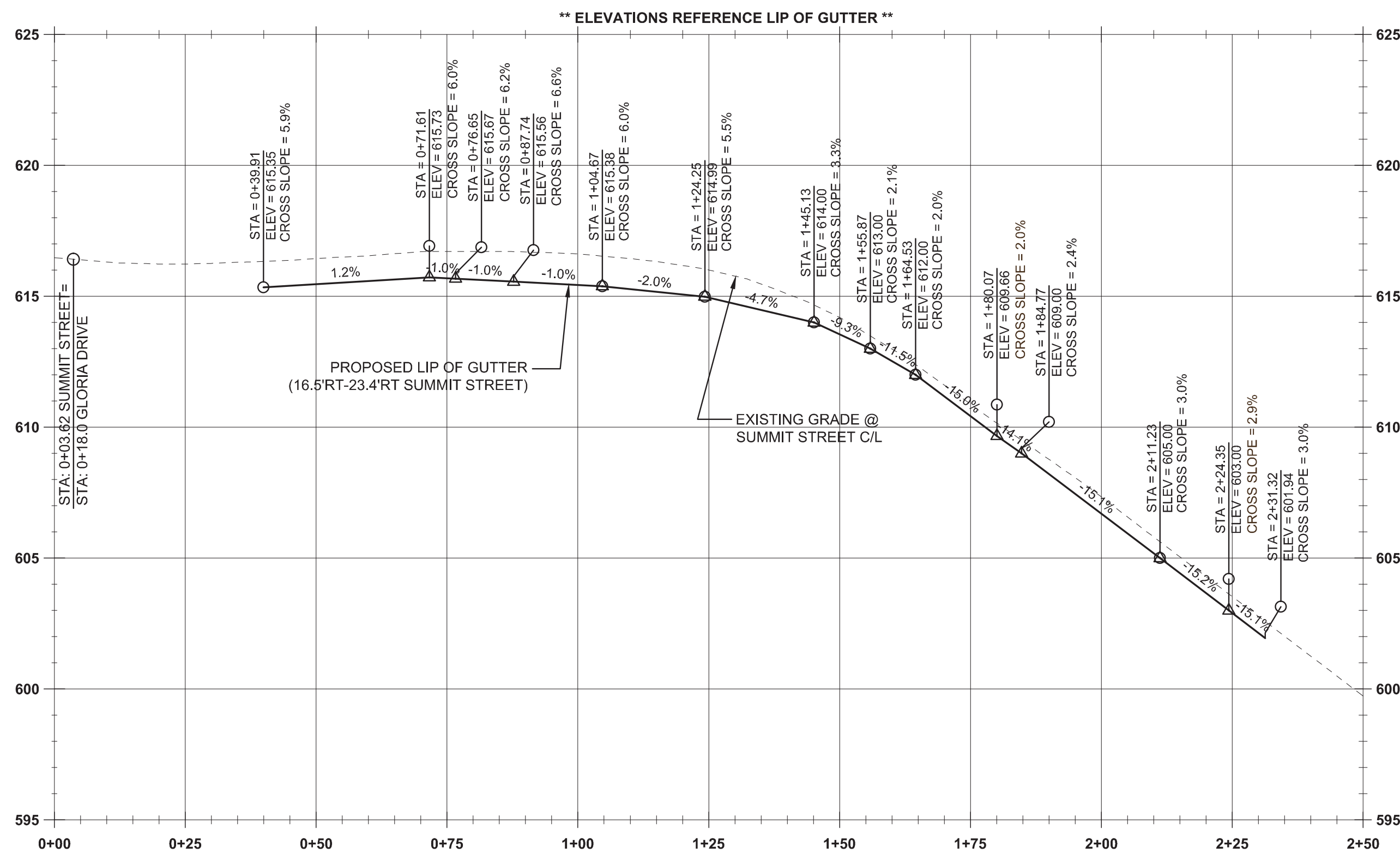
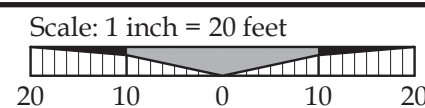
3J CONSULTING, INC.
CIVIL ENGINEERING
WATER RESOURCES
LAND USE PLANNING
5075 SW GRIFFITH DRIVE, STE 150, BEAVERTON, OR 97005
PHONE & FAX: (503) 946-5665

3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 251E25DB 500
DESIGNED BY | CLF/BCB
CHECKED BY | JDH
SHEET TITLE
GLORIA DR. P & P
SHEET NUMBER

C200



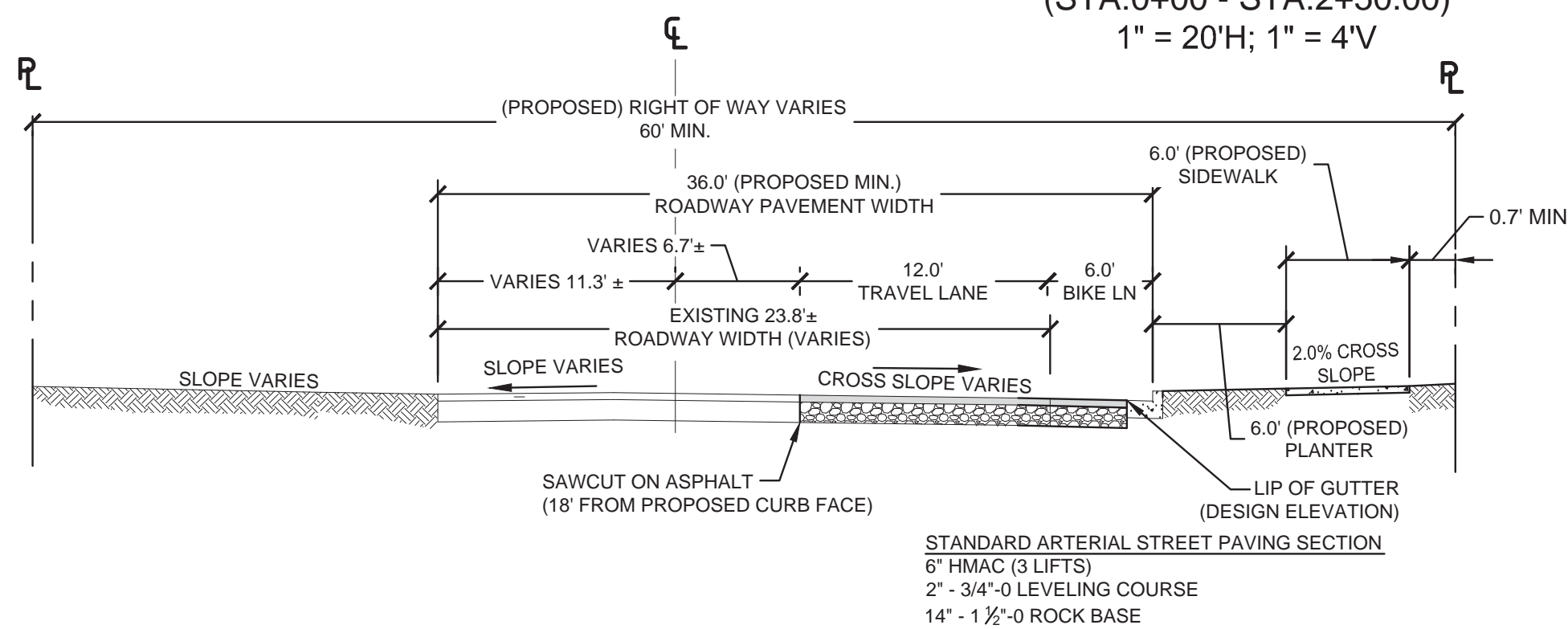
SUMMIT STREET - PLAN VIEW



SUMMIT STREET CONSTRUCTION CL - PROFILE VIEW

(STA:0+00 - STA:2+50.00)

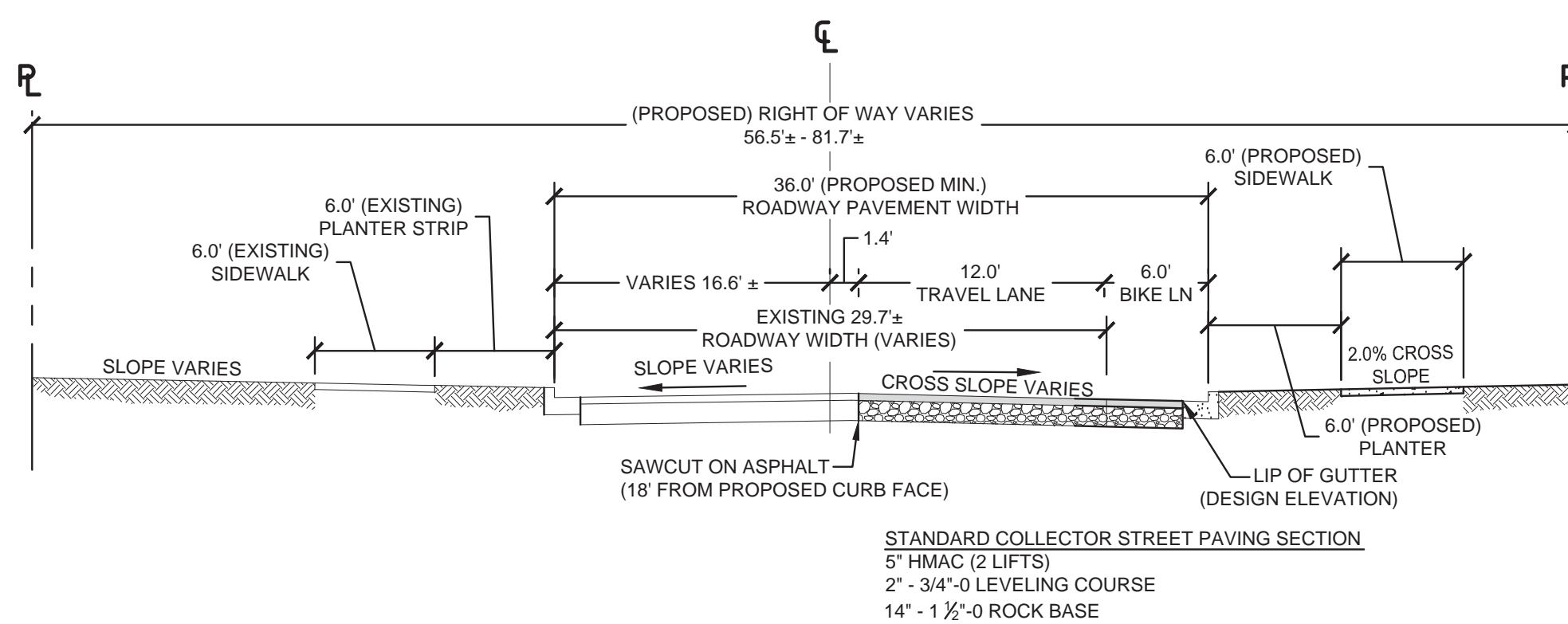
1" = 20'H; 1" = 4'V



TYPICAL SECTION - SUMMIT STREET (NORTH OF ROSEMONT ROAD)

SCALE: N.T.S

(ARTERIAL CLASSIFICATION)



TYPICAL SECTION - SUMMIT STREET (SOUTH OF ROSEMONT ROAD)

SCALE: N.T.S

(COLLECTOR CLASSIFICATION)

LEGEND

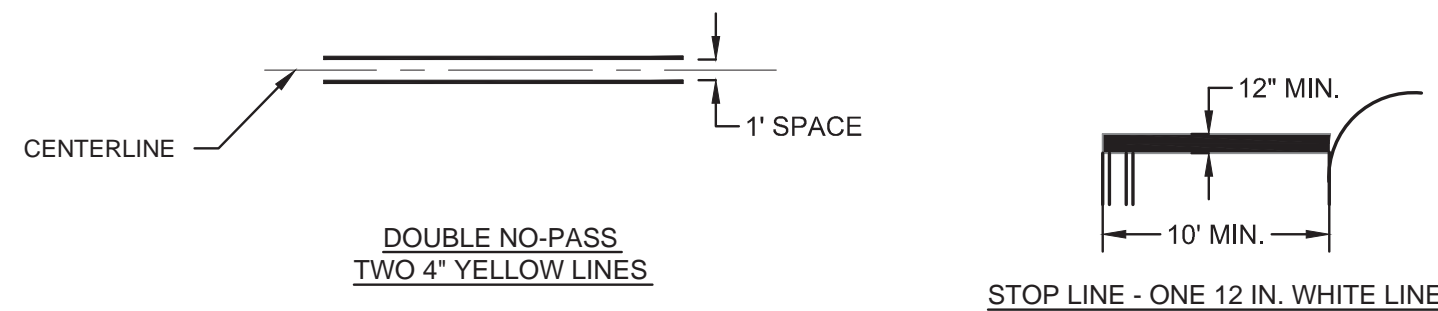
	BOUNDARY LINE		EXISTING TREES TO REMAIN
	RIGHT-OF-WAY		PROPOSED LOT LINE
	EXISTING EDGE OF ASPHALT		PROPOSED CURB AND GUTTER
	EXISTING CURB		PROPOSED CONCRETE
	EXISTING SIDEWALK		EXISTING ASPHALT SAW CUT LIMITS
	EXISTING LIGHT POLE		PROPOSED PAVEMENT STRIPING
	EXISTING TRAFFIC SIGN		
	EXISTING FIRE HYDRANT		

CONSTRUCTION KEY NOTES

1. STA: 0+39.91, 24.0' RT TO STA: 2+31.33, 30.0' RT SUMMIT STREET: CONSTRUCT 6 FT WIDE DETACHED SIDEWALK PER CITY OF WEST LINN STANDARD DETAIL WL-508 (CONCRETE SIDEWALK CROSS SECTION) ON SHEET C210.
2. STA: 0+39.91, 16.5' RT TO STA: 2+31.32, 22.5' RT SUMMIT STREET: CONSTRUCT STANDARD CURB AND GUTTER PER CITY OF WEST LINN STANDARD DETAIL WL-501 (TYPICAL CURBS) ON SHEET C200.
3. STA: 0+87.84, 18.0' RT TO STA: 1+06.26, 20.53' RT SUMMIT STREET: CONSTRUCT CURB RAMP PER CITY OF WEST LINN STANDARD DETAIL WL-506A (PARALLEL CURB RAMP) ON SHEET C211.
4. NOT USED
5. STA: 0+33.25, 21.0' RT AND STA: 1+78.0, 26.1' RT SUMMIT STREET: INSTALL NEW LIGHT POLE BASE, JUNCTION BOX AND CONDUIT. BRONZE POLE, 6' MAST ARM, BETA LED FIXTURE APPROVED BY CITY OF WEST LINN. CONTRACTOR TO CONFIRM ALL LOCATIONS AND INSTALLATION REQUIREMENTS WITH PORTLAND GENERAL ELECTRIC.
6. RE-PAVE FROM SAWCUT LIMITS TO NEW LIP OF GUTTER WITHIN AREA SHOWN (APPROX. 3,165 SF). SEE COLLECTOR / ARTERIAL STREET PAVING REQUIREMENTS ON TYPICAL SECTION DETAIL THIS SHEET.
7. STA: 0+39.91, TO STA: 2+31.24, SUMMIT STREET: INSTALL PAVEMENT MARKINGS FOR NEW STREET CENTERLINE & FOG LINE PER TYPICAL SECTION DIMENSIONS SHOWN THIS SHEET. PAVEMENT MARKING MATERIALS SHALL BE INSTALLED AS PER OREGON STANDARD SPECIFICATIONS & AS NOTED THIS SHEET.
8. STA: 0+86.58, 0.5' RT SUMMIT STREET: INSTALL STOP BAR STRIPING PER TYPICAL INSTALLATION DETAIL THIS SHEET.
9. STA: 0+86.58, 20.02' RT SUMMIT STREET: INSTALL STOP SIGN AND POST WITH V-LOC BREAKAWAY POST ANCHOR SYSTEM PER TYPICAL INSTALLATION DETAIL ON SHEET 211.

GENERAL NOTES:

1. REFER TO MITIGATION PLAN (C500) FOR ALL STREET TREE PLANTING LOCATIONS, DETAILS AND SPECIFICATIONS.



STRIPING NOTES

1. STRIPING SHALL BE THERMOPLASTIC PROFILED PAVEMENT MARKING MATERIAL.
2. LOCATE STOP LINE 4' (MIN.) TO 10' (MAX.) IN ADVANCE OF THE NEAREST MARKED CROSSWALK LINE.
3. ALL PAVEMENT MARKING MATERIALS SHALL BE INSTALLED AS PER OREGON STANDARD SPECIFICATIONS.



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RECORD DRAWING
03/17/2015

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SUMMIT ST PLAN AND PROFILE
HARPER'S TERRACE
SUBDIVISION
LF 10, LLC
WEST LINN, OR



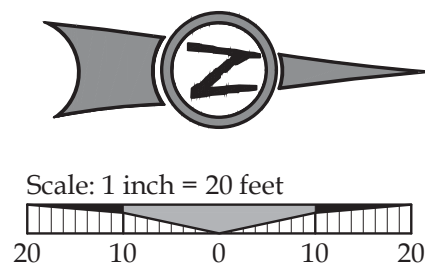
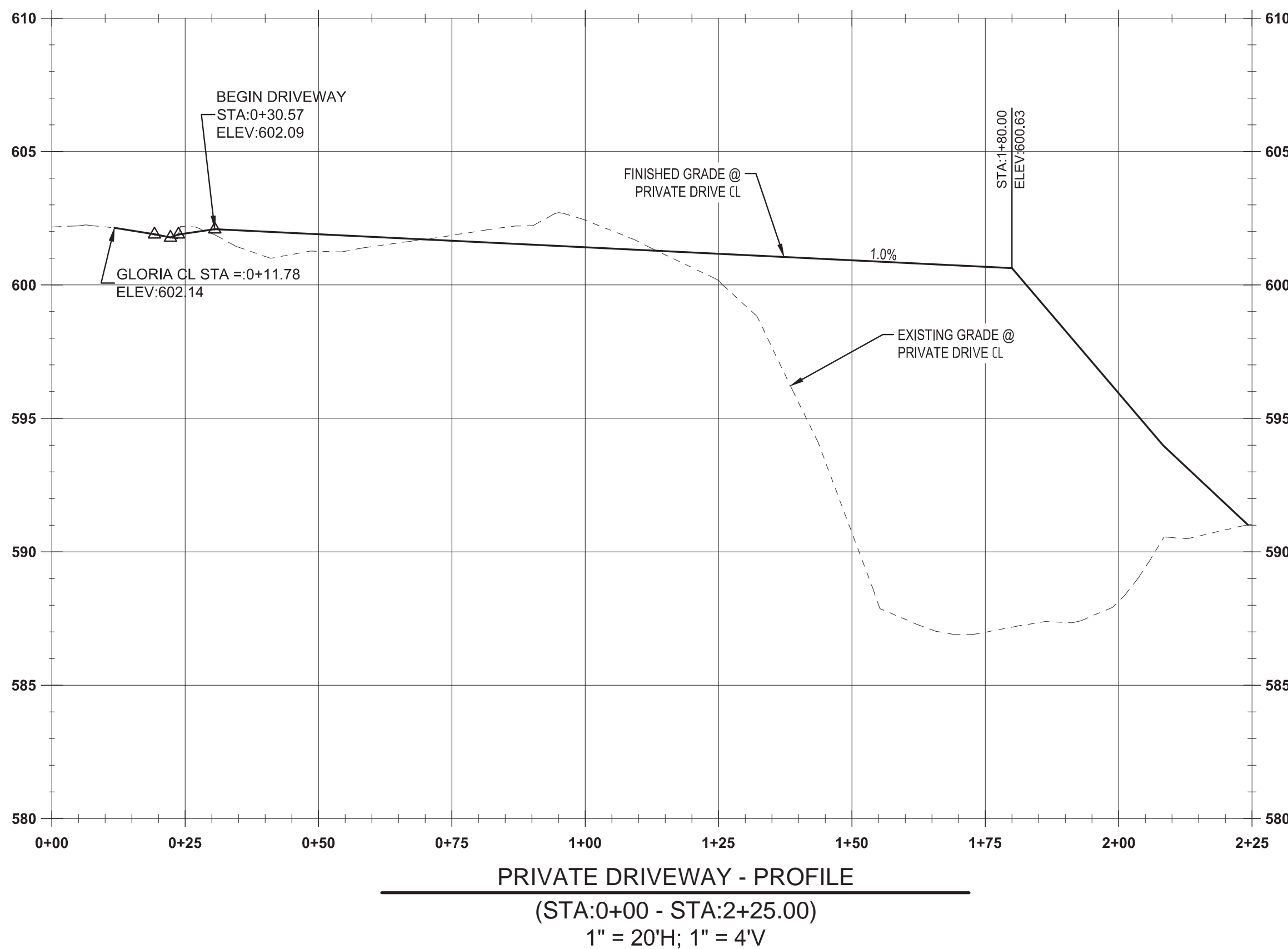
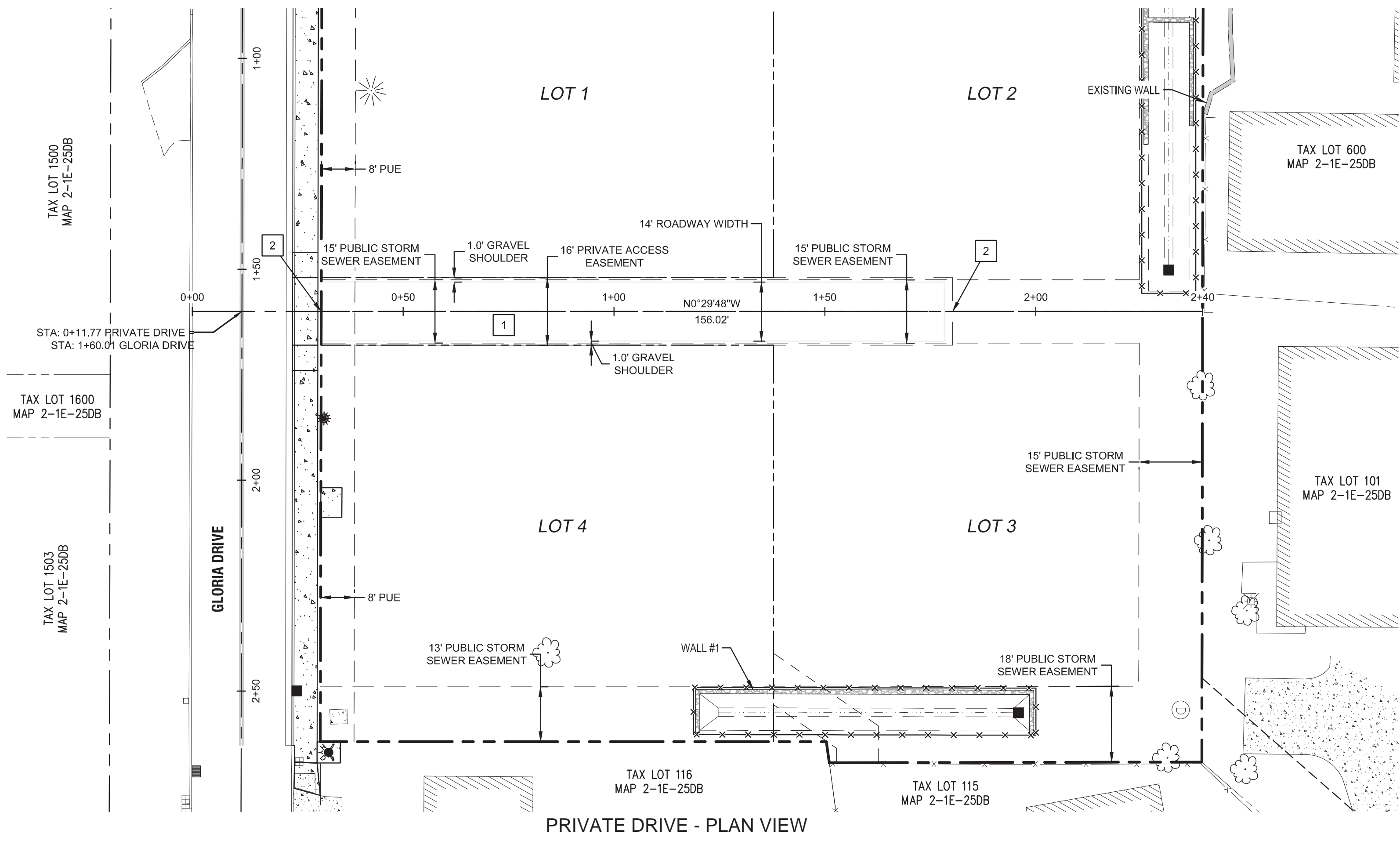
EXPIRES: 06/30/15
Digital Signature
03/17/2015

3J CONSULTING, INC
CIVIL ENGINEERING
WATER RESOURCES
LAND USE PLANNING
5075 SW GRIFFITH DRIVE, STE 150, BEAVERTON, OR 97005
PHONE & FAX: (503) 946-5965

3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 251E25DB 500
DESIGNED BY | CLF/BCH
CHECKED BY | JDH

SHEET TITLE
SUMMIT ST P & P
SHEET NUMBER

C201

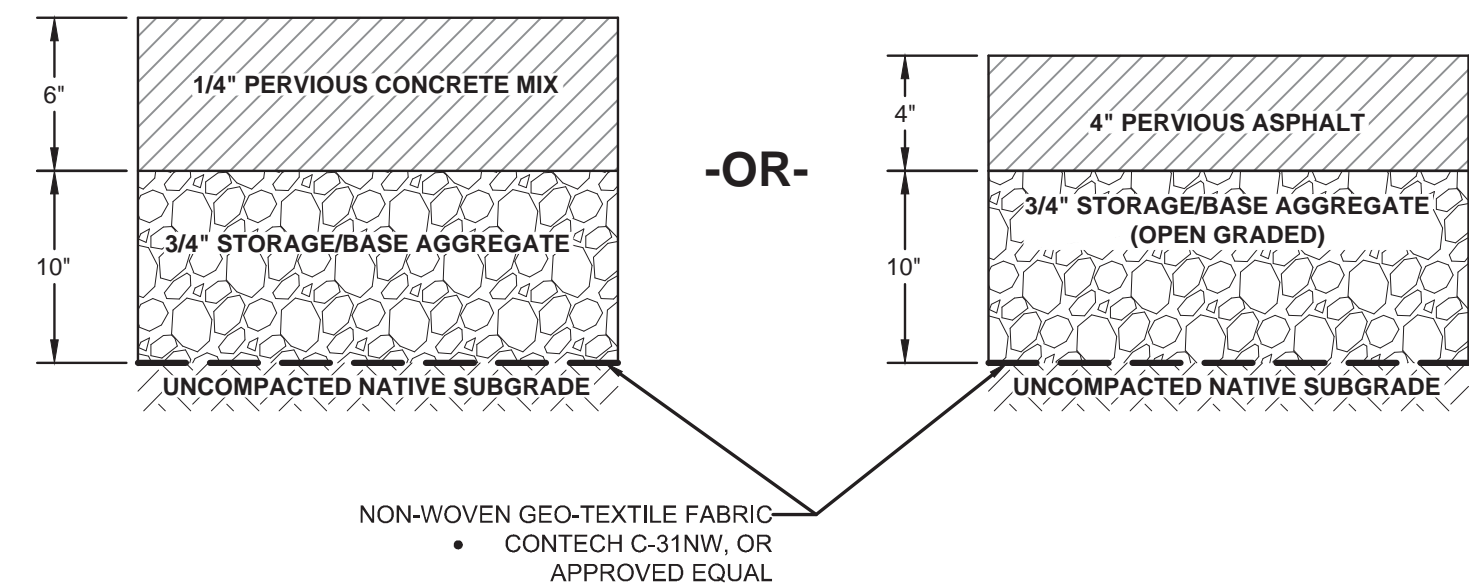
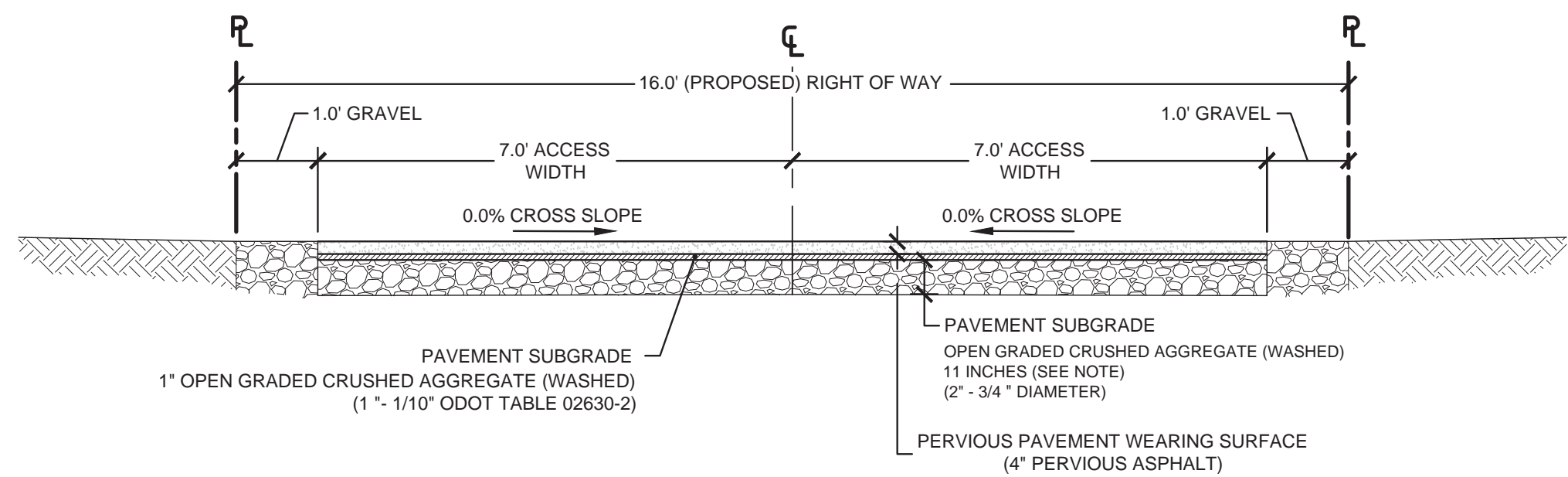


LEGEND

	BOUNDARY LINE		EXISTING TREES TO REMAIN
	RIGHT-OF-WAY		PROPOSED LOT LINE
	EXISTING CENTERLINE		PROPOSED CURB AND GUTTER
	EXISTING EASEMENT LINE		PROPOSED CONCRETE
	EXISTING LOT LINE		PROPOSED RETAINING WALL
	EXISTING CURB		
	EXISTING SIDEWALK		
	EXISTING LIGHT POLE		
	EXISTING TRAFFIC SIGN		
	EXISTING FIRE HYDRANT		

GENERAL SITE CONSTRUCTION NOTES

1. CONSTRUCT PERVIOUS CONCRETE SHARED ACCESS DRIVE PER "PERVIOUS CONCRETE PAVING SECTION" DETAIL AND "TYPICAL SECTION" THIS SHEET. MODIFICATIONS SHALL BE APPROVED BY THE ENGINEER.
2. PRIVATE DRIVEWAY STA: 0+30.57 TO STA: 1+80.00
CONSTRUCT DRIVEWAY IMPROVEMENTS PER TYPICAL SECTION AND PROFILE INFORMATION SHOWN THIS SHEET.



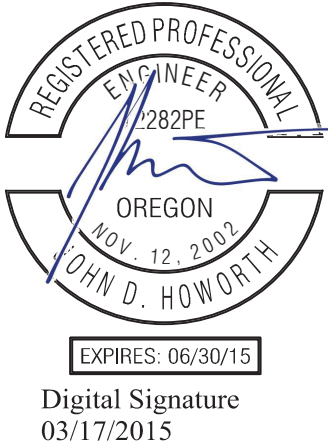
Know what's below.
Call before you dig.

RECORD DRAWING
03/17/2015

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 - Field notes
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PRIVATE DRIVE PLAN AND PROFILE
HARPER'S TERRACE
SUBDIVISION
LF 10, LLC
WEST LINN, OR

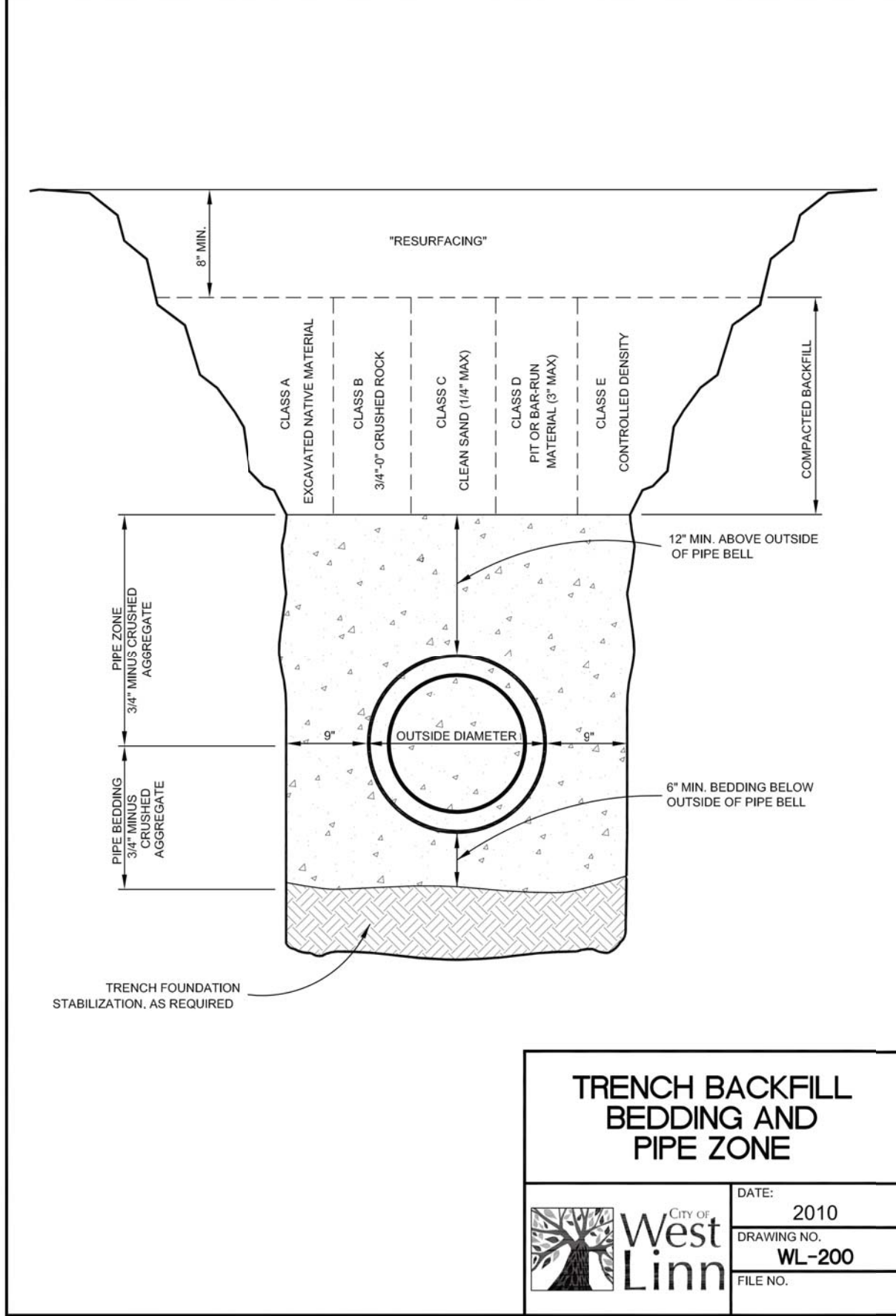


3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 251E25DB 500
DESIGNED BY | CLF/BCB
CHECKED BY | JDH

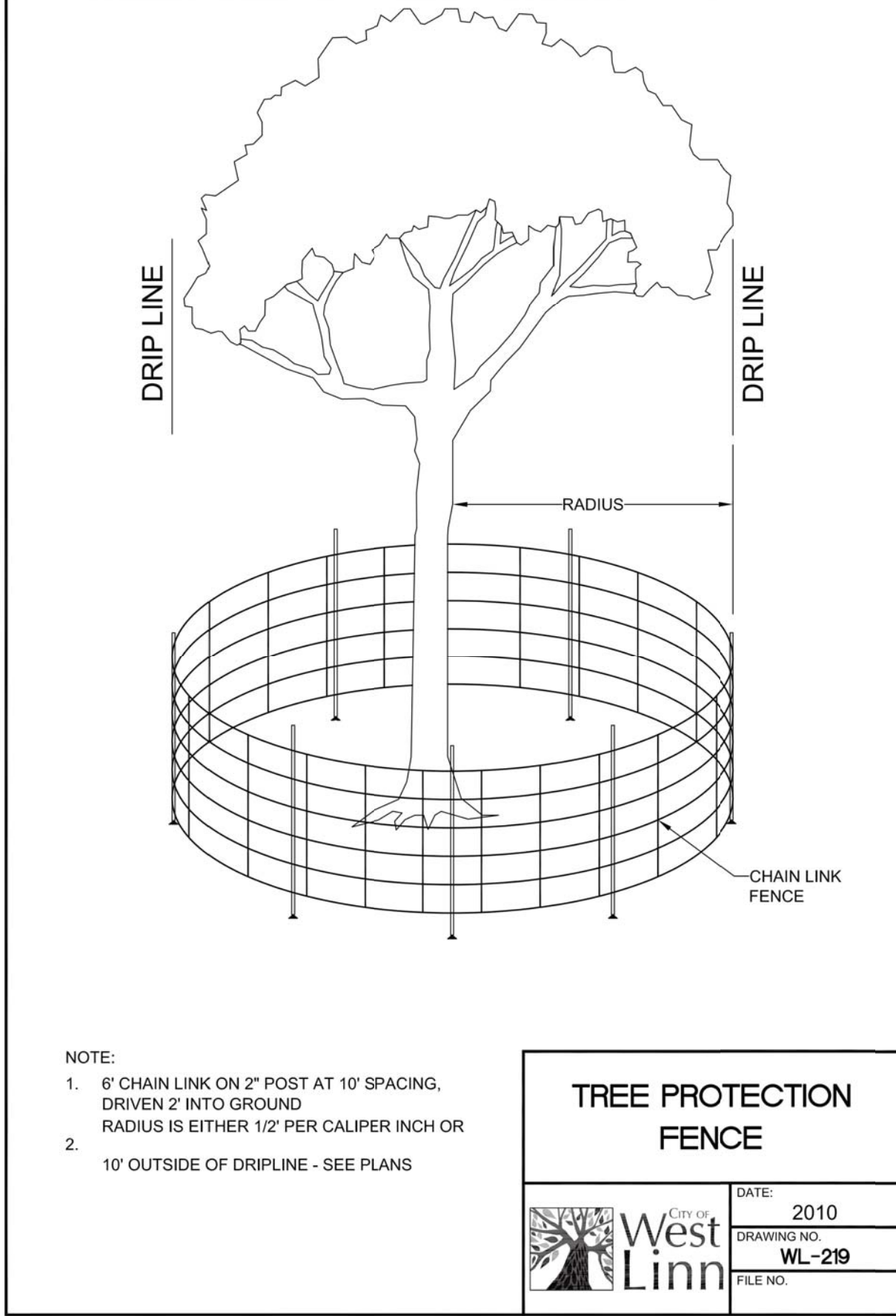
SHEET TITLE
DRIVEWAY P & P
SHEET NUMBER

C202

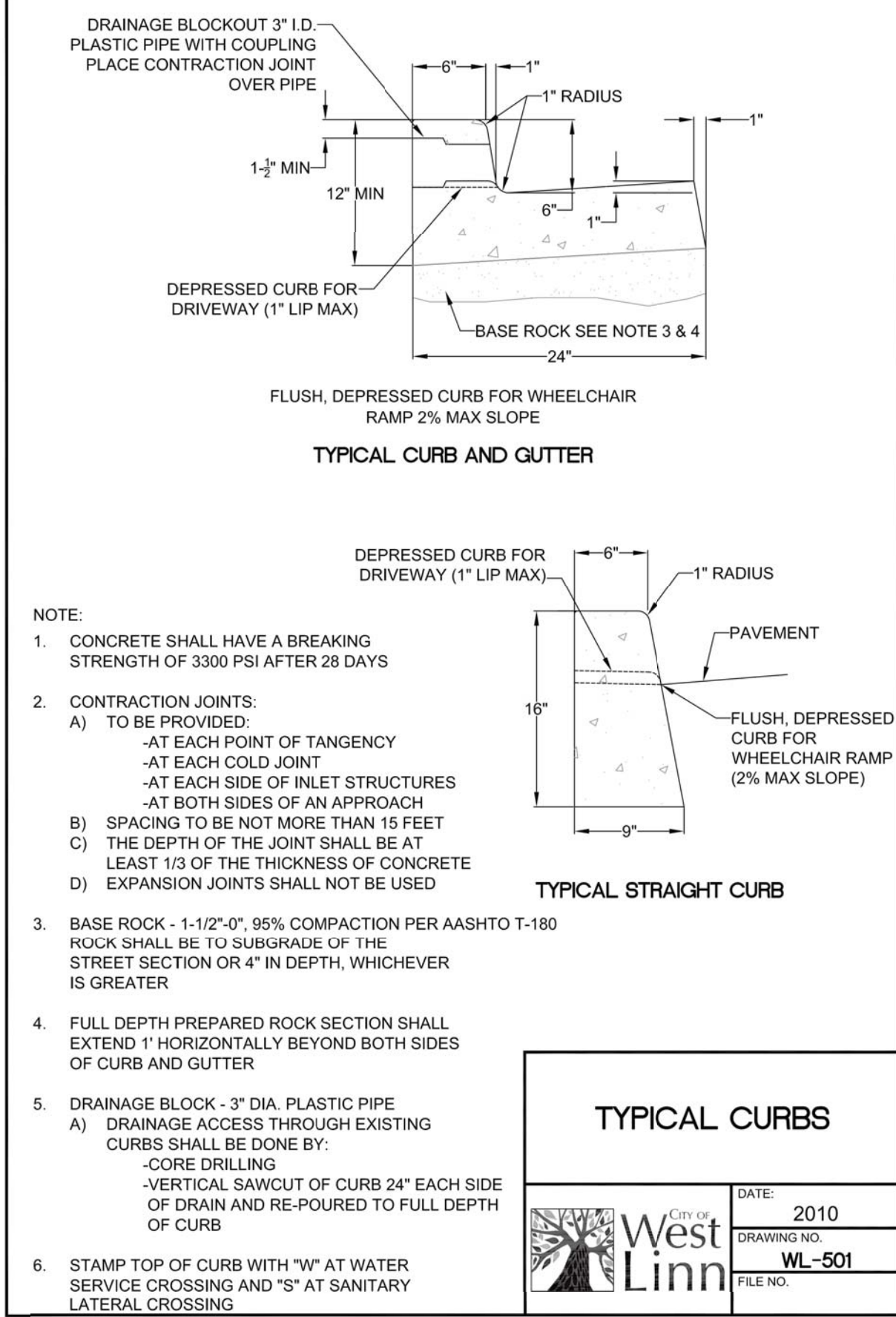
THIS DETAIL DRAWING SHALL NOT BE ALTERED OR CHANGED IN ANY MANNER EXCEPT BY THE CITY ENGINEER. IT IS THE RESPONSIBILITY OF THE USER TO ACQUIRE THE MOST CURRENT VERSION OF THE DETAIL.



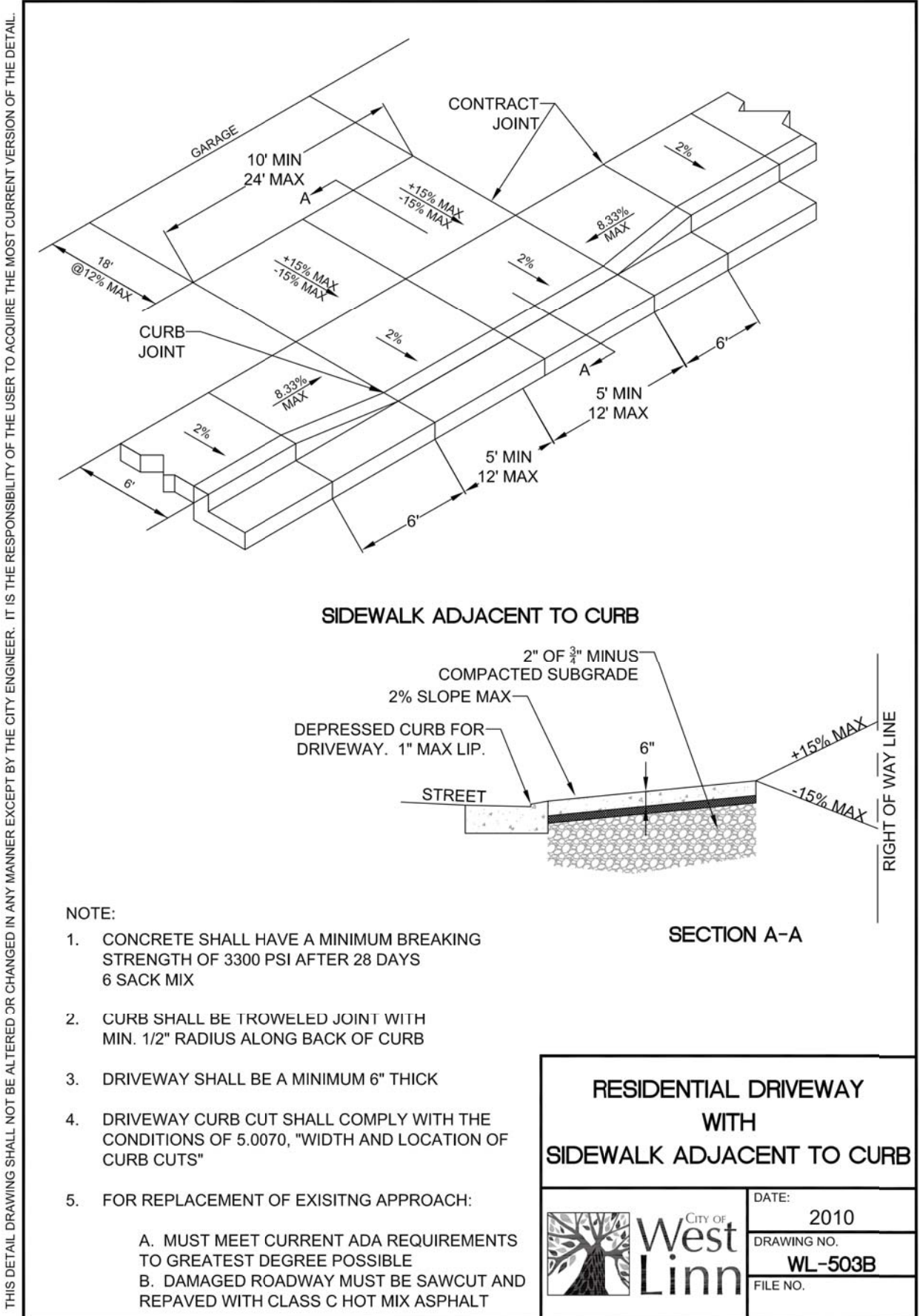
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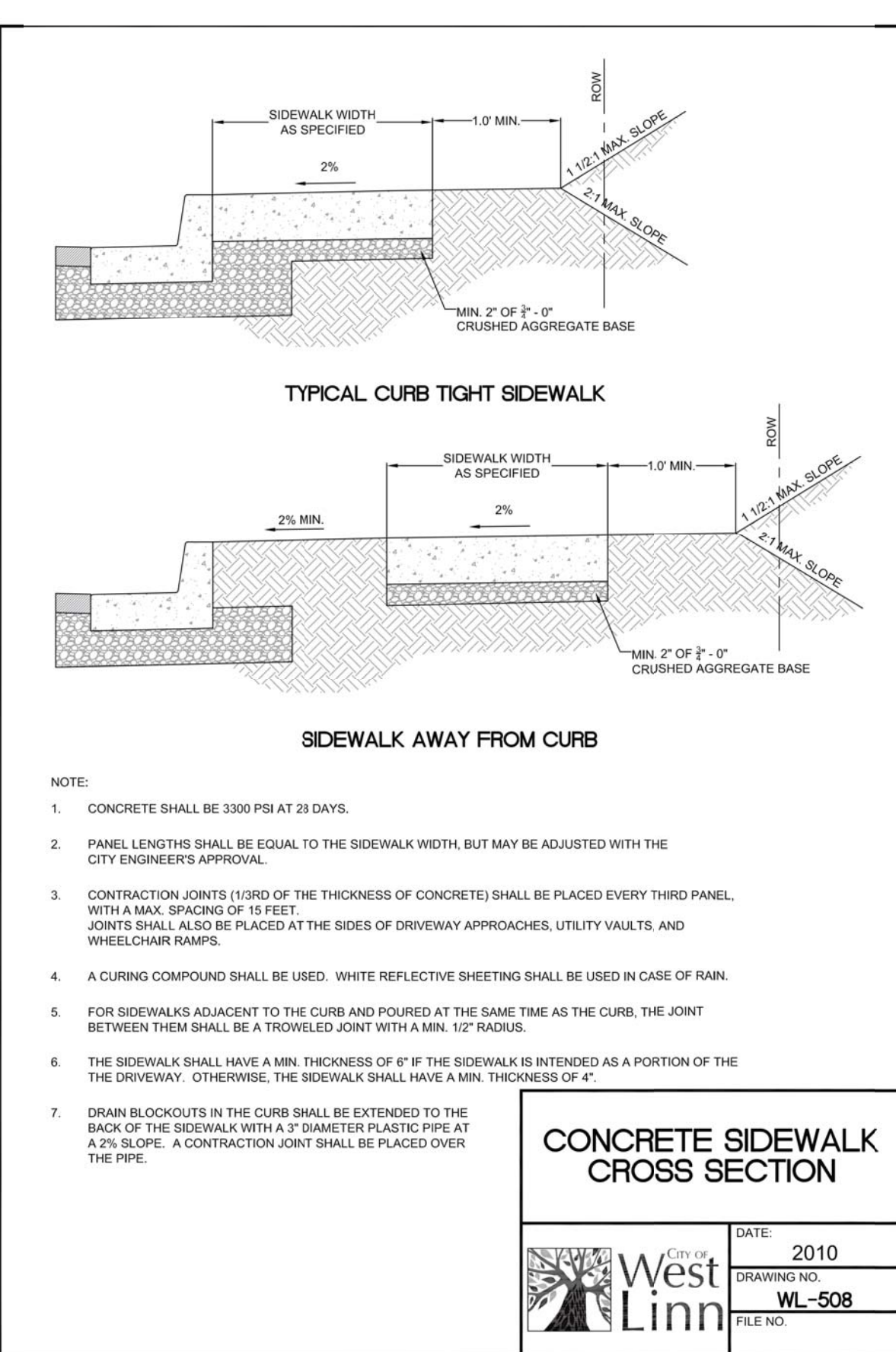
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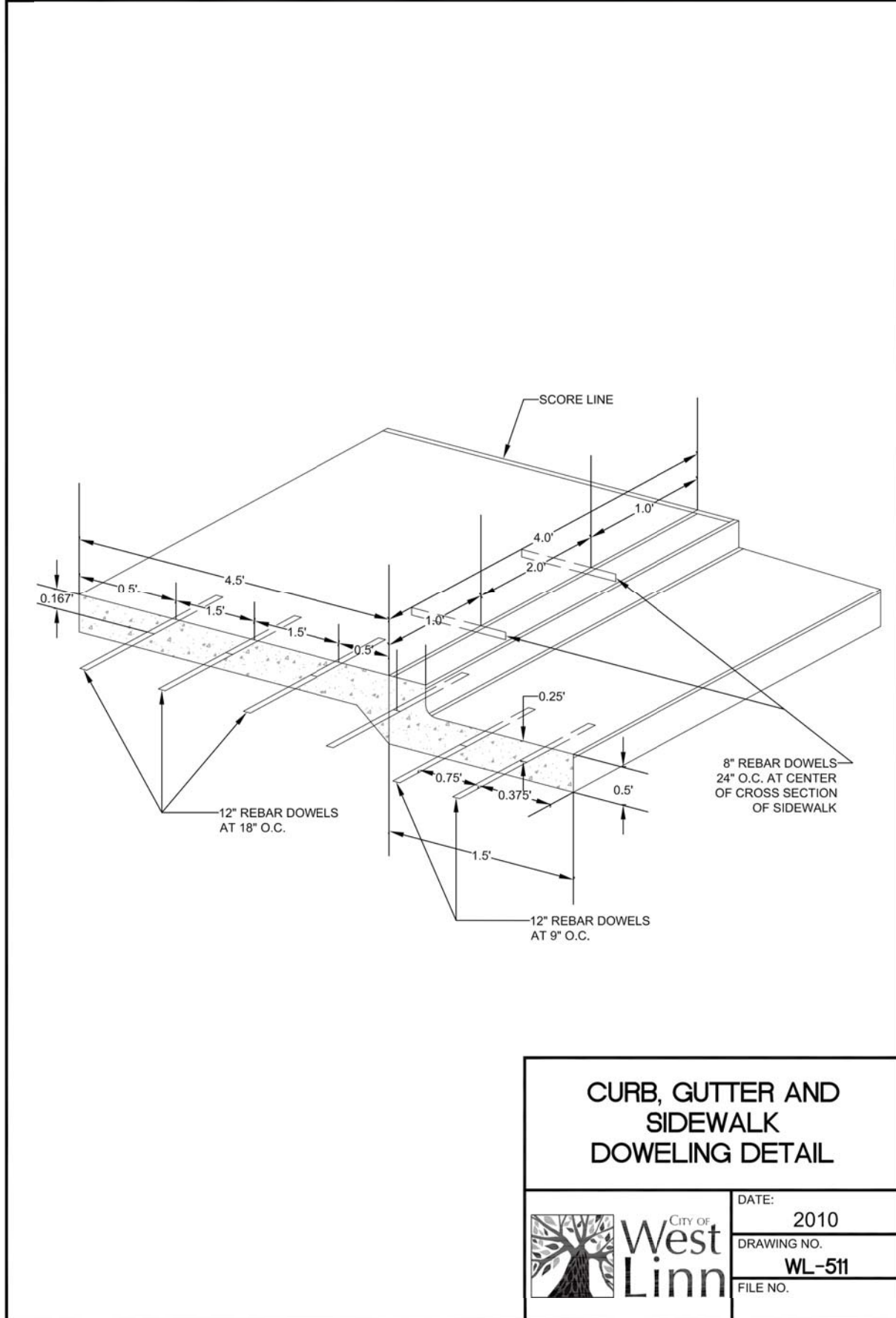
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RECORD DRAWING
03/17/2015

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CONSTRUCTION DETAILS I
HARPER'S TERRACE
SUBDIVISION
LF 10, LLC
WEST LINN, OR

J.T. SMITH
companies



EXPIRES: 06/30/15
Digital Signature
03/17/2015

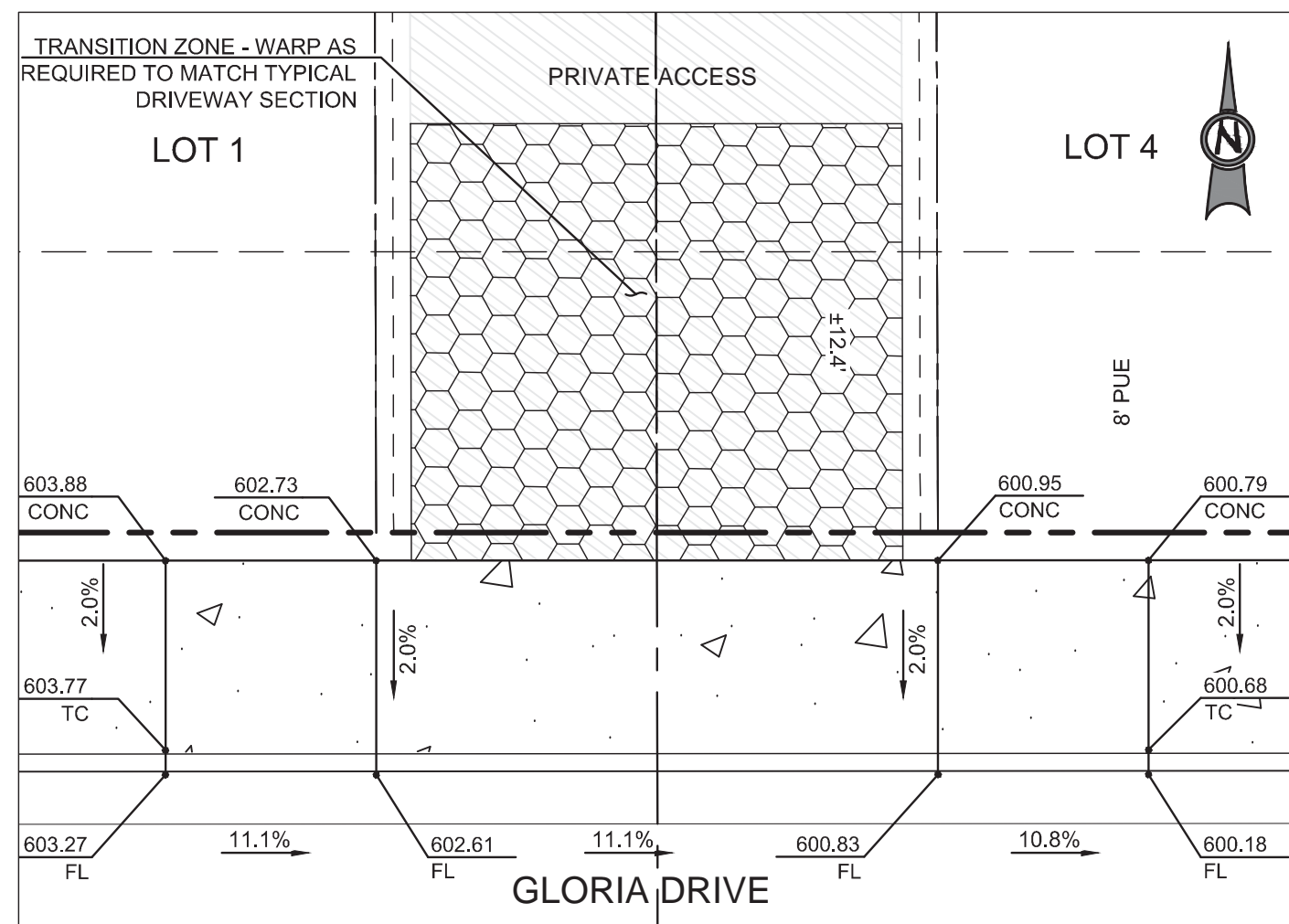
3J CONSULTING, INC
CIVIL ENGINEERING
WATER RESOURCES
LAND USE PLANNING
5075 SW GRIFFITH DRIVE, STE 150, BEAVERTON, OR 97005
PHONE & FAX: (503) 946-5865

3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 2S1E25D08 500
DESIGNED BY | CLF/BCH
CHECKED BY | JDH

SHEET TITLE
DETAILS I

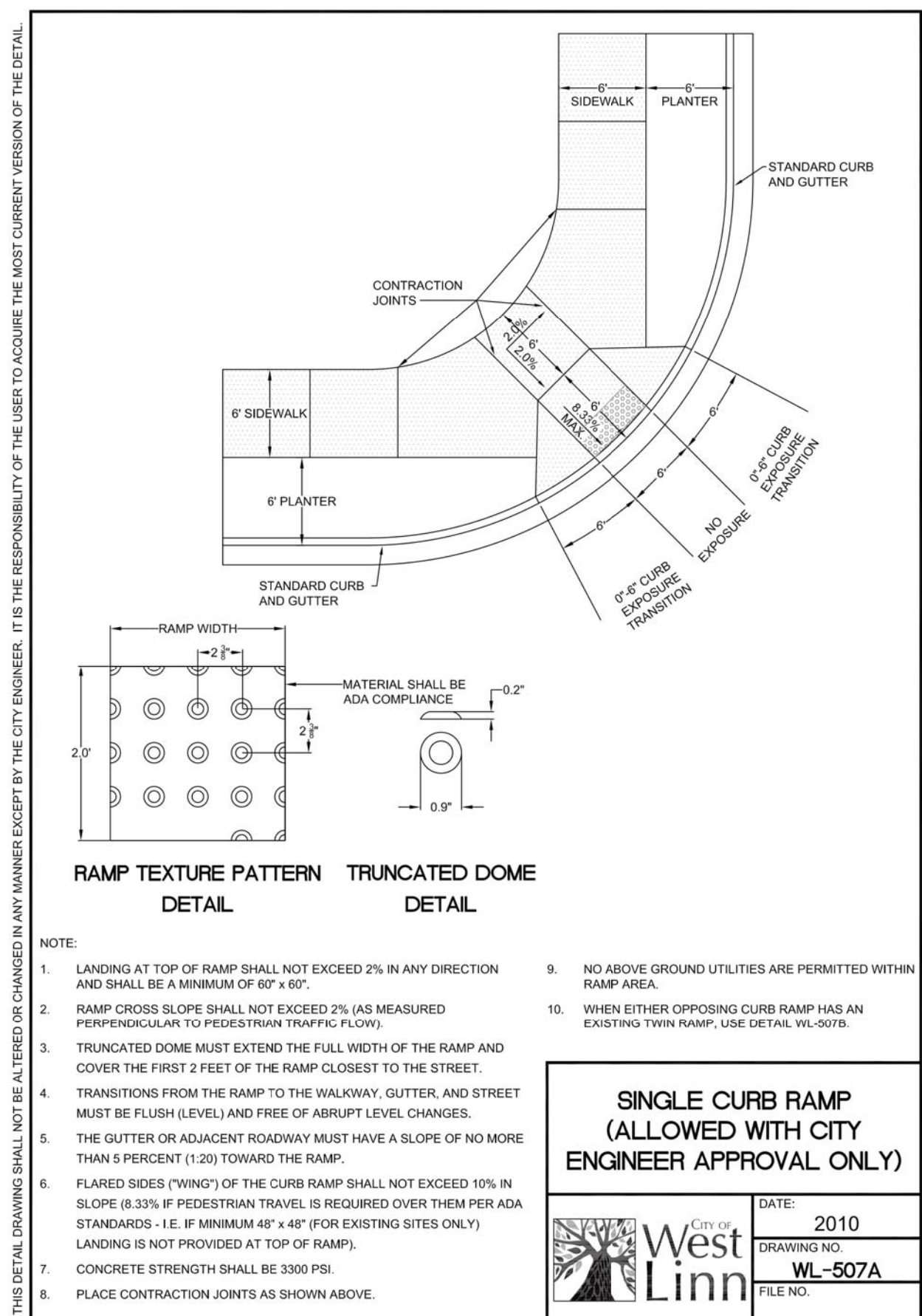
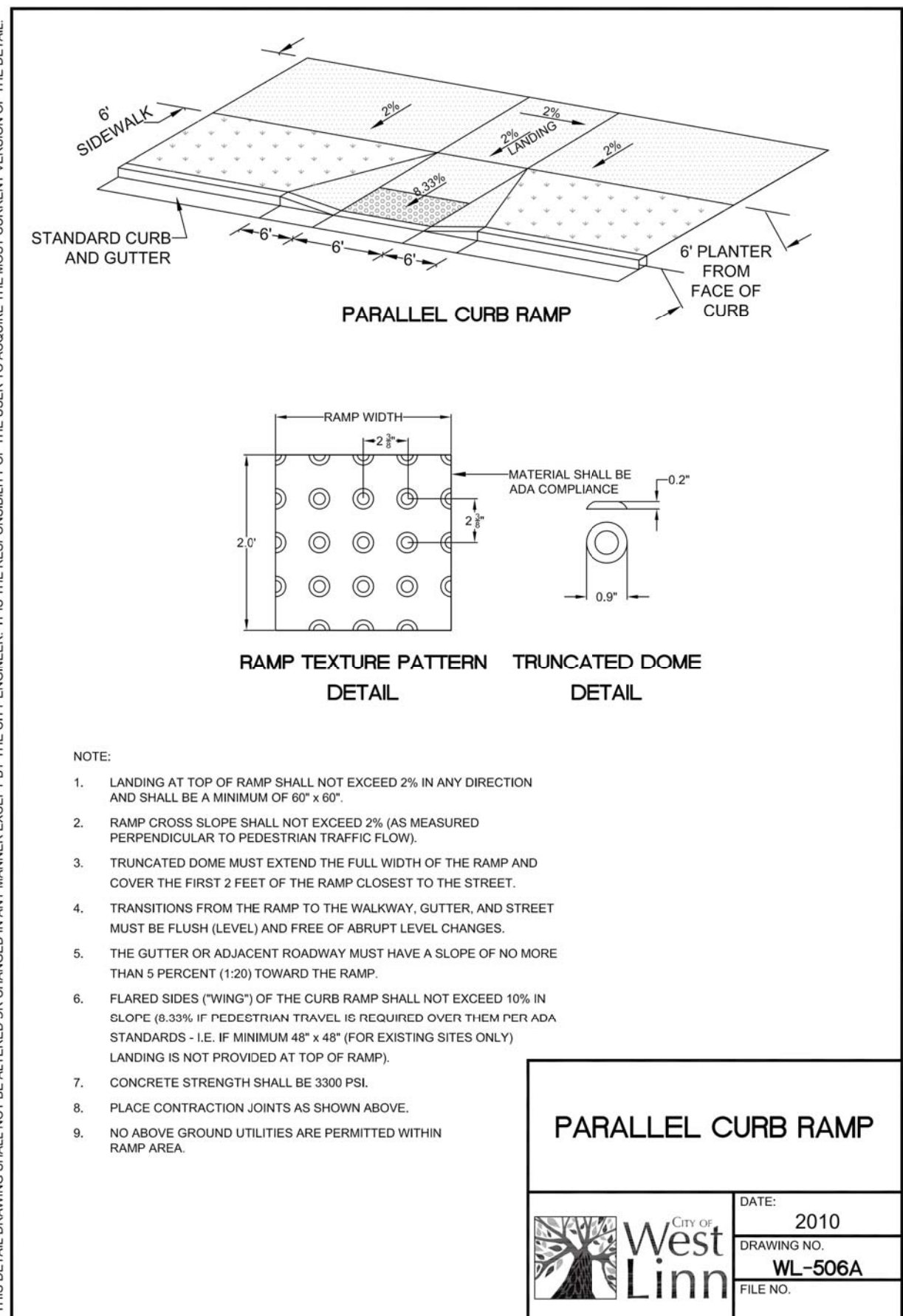
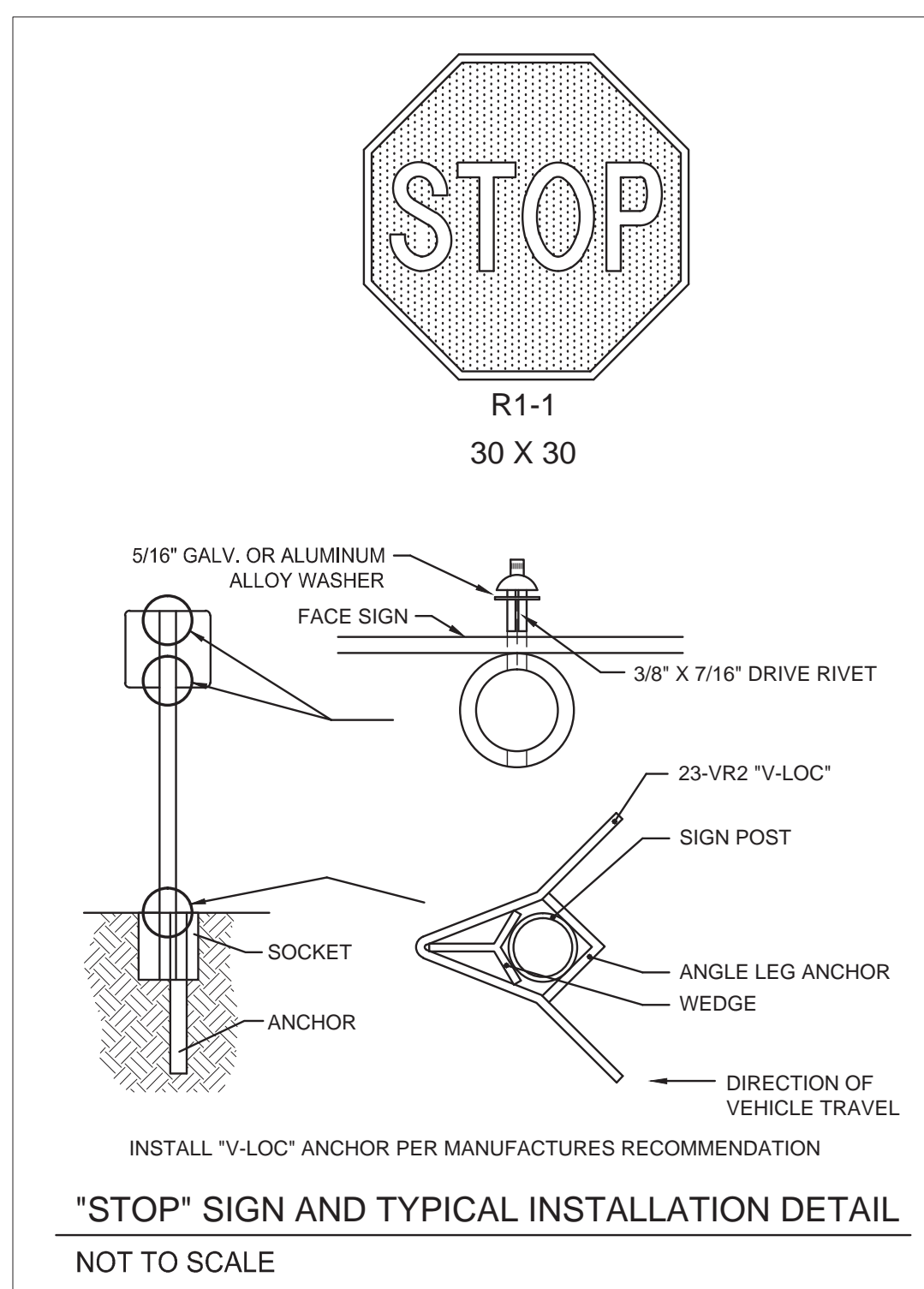
SHEET NUMBER

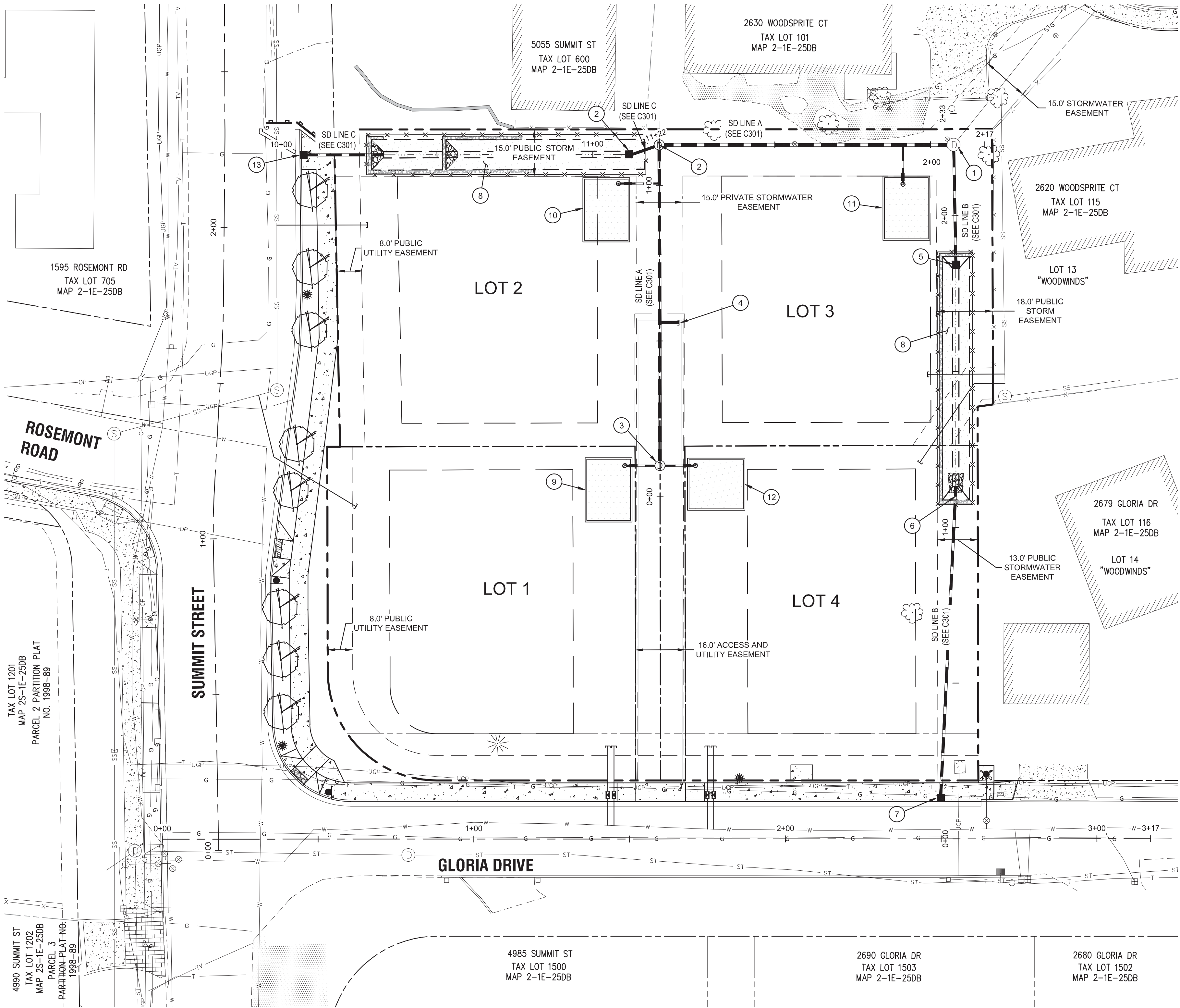
C210



PRIVATE ACCESS RAMP DETAIL

SCALE: 1" = 5'





GENERAL UTILITY NOTES

1. ALL EXISTING STORM DRAIN PIPING AND STRUCTURES DESIGNATED FOR MODIFICATION WITHIN THESE PLANS SHALL BE POTHOLED AND FIELD VERIFIED FOR LENGTH, ALIGNMENT, DEPTH AND GRADE PRIOR TO COMMENCEMENT OF CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
2. ALL PRIVATE HORIZONTAL DRAIN PIPING SHOWN SHALL CONFORM TO THE INTERNATIONAL PLUMBING CODE (IPC) AND ALL OREGON SPECIALTY CODE AMENDMENTS FOR: FITTINGS, CONNECTIONS, ALIGNMENT, GRADE & MATERIAL.
3. SEE SHEETS C301 FOR PROFILE DATA.

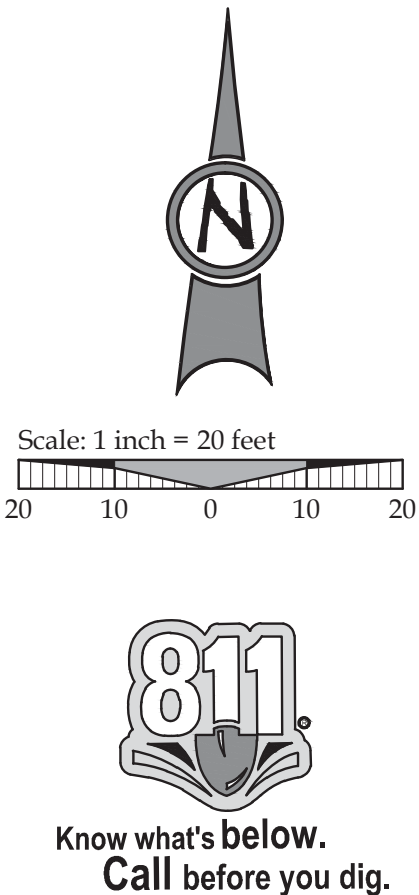
STORM LATERAL TABLE

STORM LATERAL	LATERAL SIZE	LENGTH	INVERT AT MAIN	INVERT AT END	DEPTH AT END	MAIN LINE STATION
LOT 1	6"	13.83 LF	595.09	596.90	4.0 FT	SD MH 5
LOT 2	6"	12.2 LF	586.95	588.40	4.3 FT	STA: 1+00.55, STORM LINE A
LOT 3	6"	11.9 LF	575.80	580.60	5.5 FT	STA: 1+91.11, STORM LINE A
LOT 4	6"	13.30 LF	595.14	596.20	5.3 FT	SD MH 5

STORM DRAIN STRUCTURE TABLE

1. EX. SD MH 3
PROFILE DATA: SEE SHEET C301
CONSTRUCTION DATA: SEE SHEET 310
2. SD MH 4
PROFILE DATA: SEE SHEET C301
CONSTRUCTION DATA: SEE SHEET 310
3. SD MH 5
PROFILE DATA: SEE SHEET C301
CONSTRUCTION DATA: SEE SHEET 310
4. SD STUB
STA: 0+55.88, 6.22' RT STORM LINE A
IE (8" W): 597.55
INSTALL 8.53 LF 8" PVC @ S=-.8814
5. SD DI B2
CONSTRUCT DITCH INLET AT LOCATION SHOWN PER STD.
DWG. WL-603 SHOWN ON SHEET C311
AND ELEVATION DATA SHOWN ON C301.
6. CONSTRUCT STORM LINE 'B'
OUTFALL TO WATER QUALITY
SWALE AS SHOWN ON SHEET C301.
CLASS 100 RIP RAP PAD (APPROX. 3 CY)
APPROXIMATELY 6'Lx5'Wx2'D.
7. SD CI B1
PROFILE DATA: SEE SHEET C301
CONSTRUCTION DATA: SEE SHEET 311

8. CONSTRUCT WATER QUALITY
SWALE AS SHOWN. ELEVATION DATA
SHOWN ON SHEET C301.
9. LOT 1 - WATER QUALITY PLANTER
TO BE CONSTRUCTED UNDER SEPARATE
PERMIT AT THE TIME OF HOME CONSTRUCTION.
10. LOT 2 - WATER QUALITY PLANTER
TO BE CONSTRUCTED UNDER SEPARATE
PERMIT AT THE TIME OF HOME CONSTRUCTION.
11. LOT 3 - WATER QUALITY PLANTER
TO BE CONSTRUCTED UNDER SEPARATE
PERMIT AT THE TIME OF HOME CONSTRUCTION.
12. LOT 4 - WATER QUALITY PLANTER
TO BE CONSTRUCTED UNDER SEPARATE
PERMIT AT THE TIME OF HOME CONSTRUCTION.
13. SD CI C2
PROFILE DATA: SEE SHEET C301
CONSTRUCTION DATA: SEE SHEET 311
14. SD DI C1
PROFILE DATA: SEE SHEET C301
CONSTRUCTION DATA: SEE SHEET 311



LEGEND

- BOUNDARY LINE
- EXISTING RIGHT-OF-WAY
- EXISTING CENTERLINE
- EXISTING LOT LINE
- EXISTING CURB
- EXISTING ASPHALT
- EXISTING SIDEWALK
- EXISTING GRAVEL DRIVE
- EXISTING LIGHT POLE
- EXISTING TRAFFIC SIGN
- EXISTING SANITARY SEWER LINE
- EXISTING WATER LINE
- EXISTING STORM LINE
- EXISTING GAS LINE
- EXISTING UNDERGROUND POWER
- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE
- EXISTING CATCHBASIN
- PROPOSED SETBACK LINE
- PROPOSED RIGHT-OF-WAY
- PROPOSED LOT LINE
- PROPOSED CENTERLINE
- PROPOSED CURB
- PROPOSED SIDEWALK
- PROPOSED SETBACK LINE
- STORM SEWER CURB INLET
- STORM SEWER DITCH INLET
- STORM DRAIN LINE AND MANHOLE
- DETENTION POND LIMITS
- STORM SEWER LATERAL AS NOTED
- SANITARY SEWER LATERAL
- SANITARY SEWER LINE AND MANHOLE
- DOMESTIC WATER SERVICE & METER
- PROPOSED STREET LIGHT
- PROPOSED RETAINING WALL

STORM DRAINAGE PLAN HARPER'S TERRACE SUBDIVISION LF 10, LLC WEST LINN, OR



Digital Signature
03/17/2015



3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 251E25DB 500
DESIGNED BY | CLF/BC
CHECKED BY | JDH

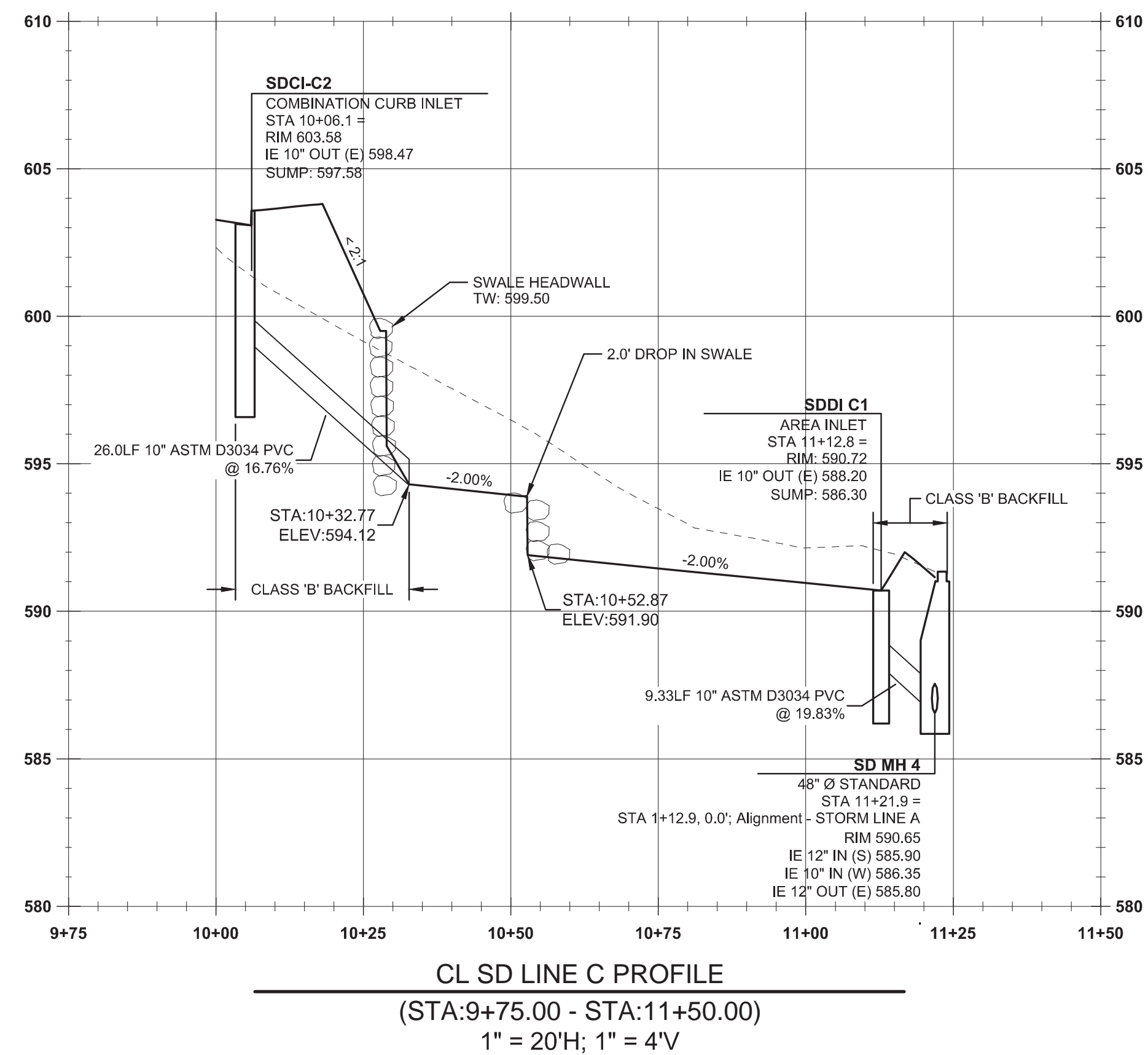
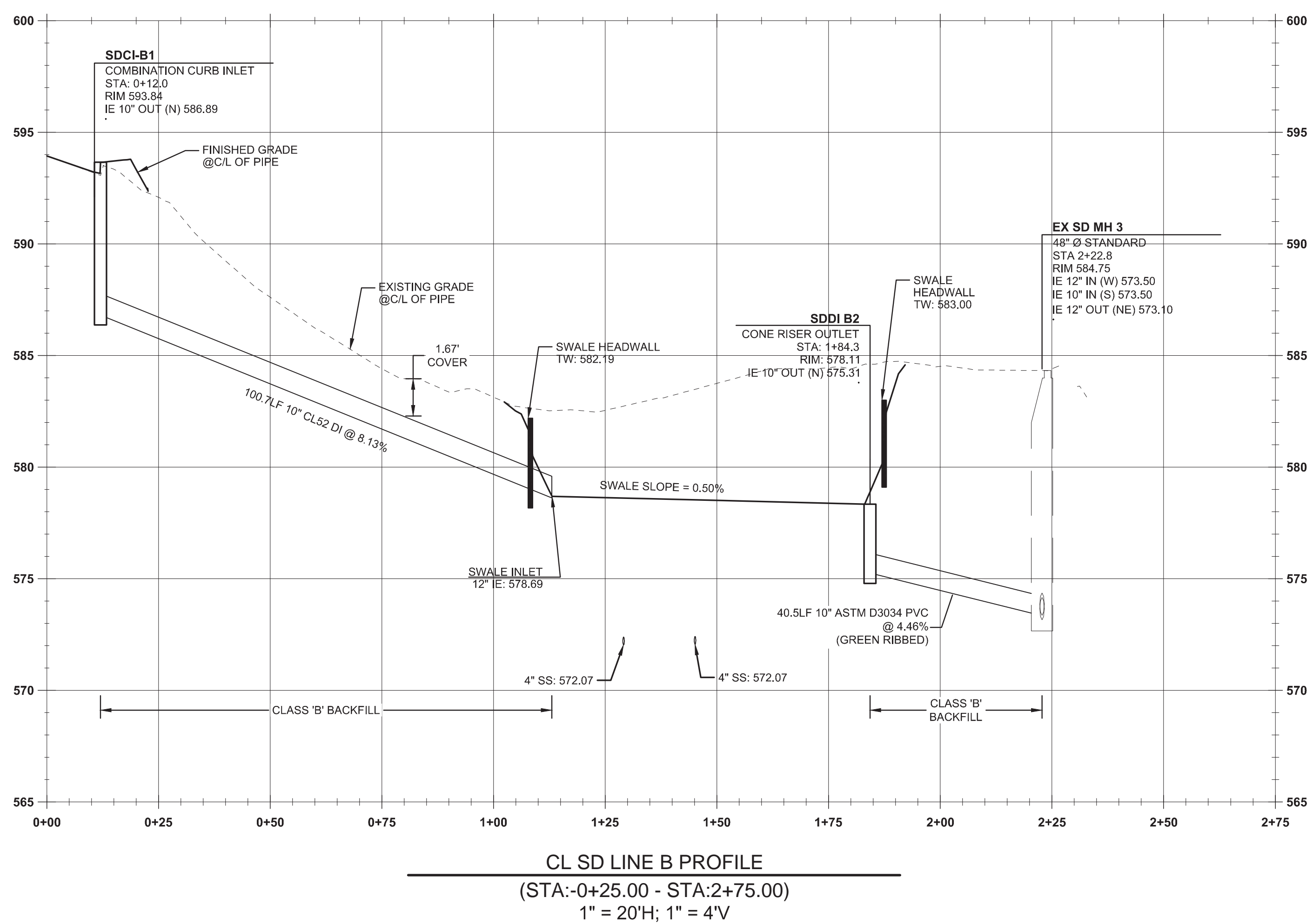
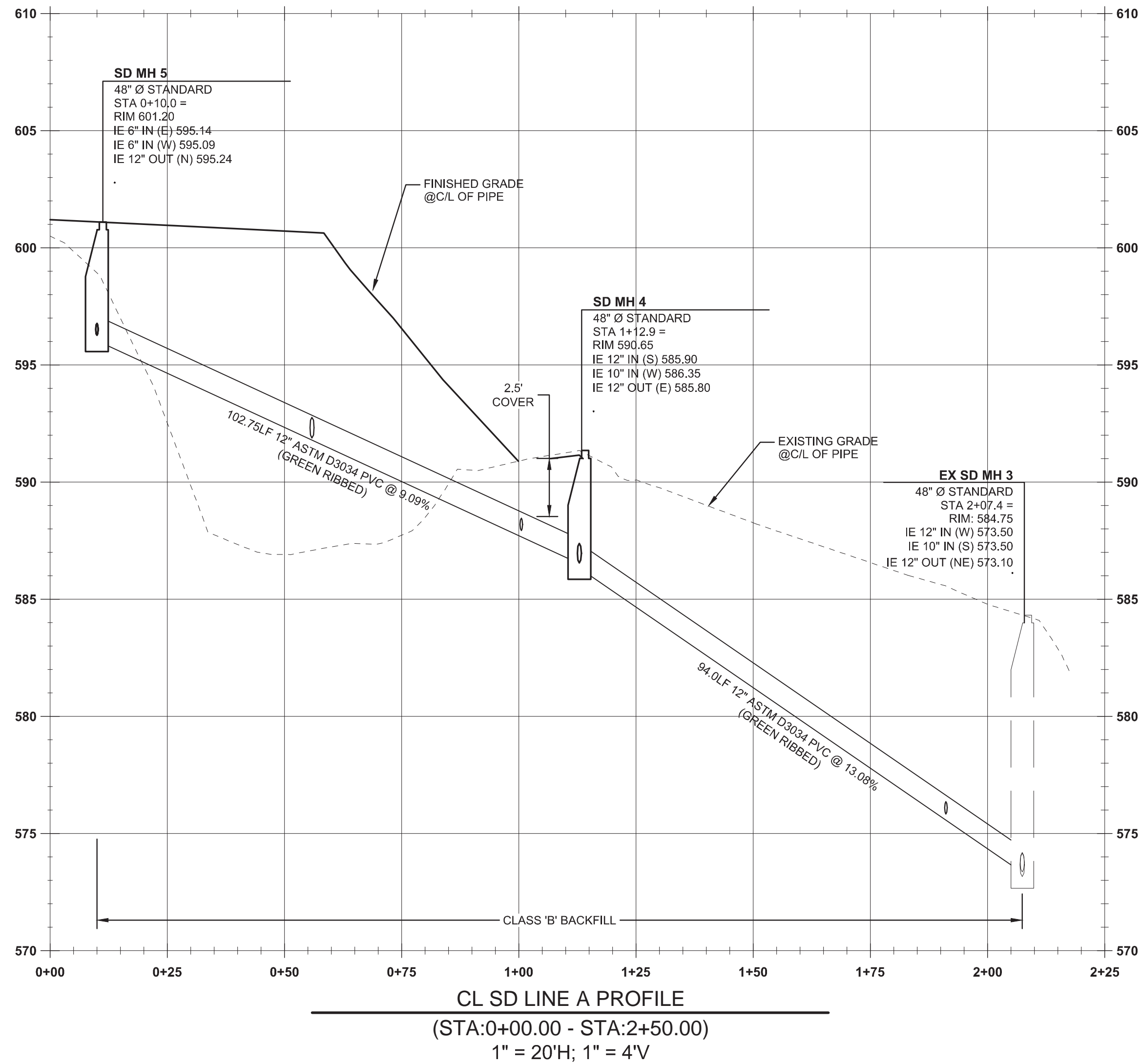
SHEET TITLE
STORM PLAN

SHEET NUMBER

C300

RECORD DRAWING
03/17/2015

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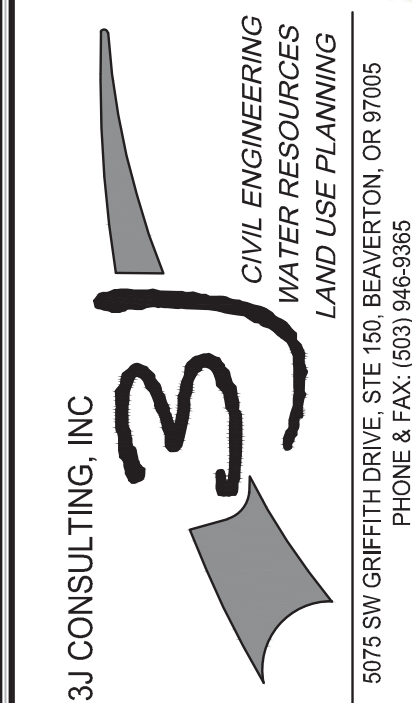


Know what's below.
Call before you dig.

STORM DRAINAGE PROFILE PLAN

HARPER'S TERRACE
SUBDIVISION

LF 10, LLC
WEST LINN, OR



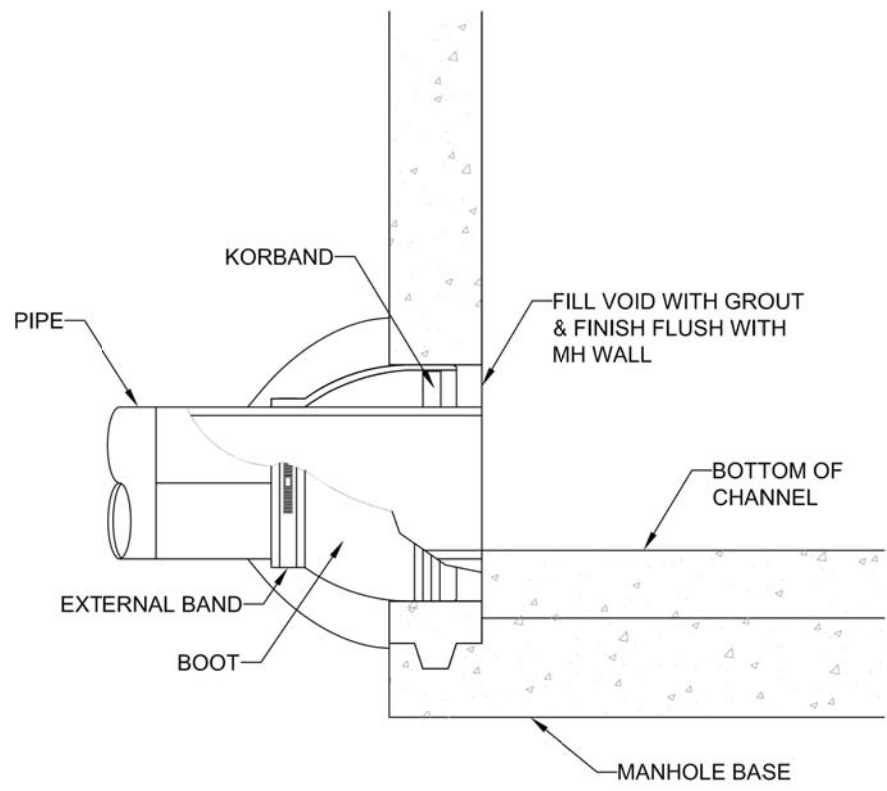
3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 2S1E25DB 500
DESIGNED BY | CLF/BCH
CHECKED BY | JDH

SHEET TITLE
SD LINES 'A' & 'B'
SHEET NUMBER

C301

RECORD DRAWING
03/17/2015
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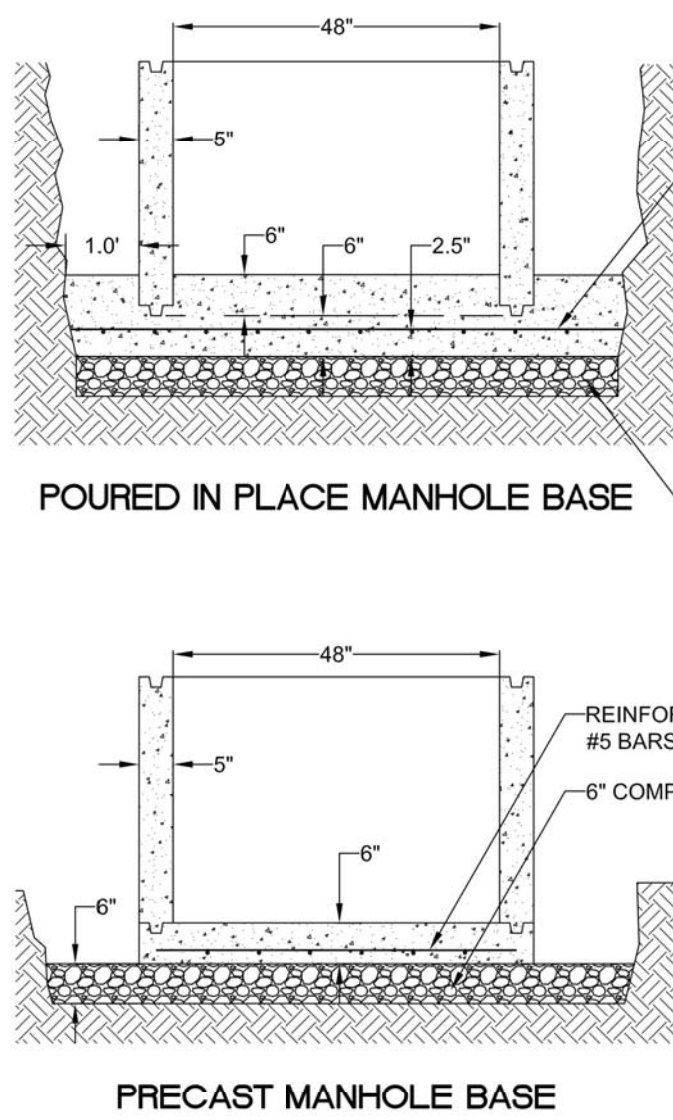
FLEXIBLE MANHOLE CONNECTION
(KOR-N-SEAL OR APPROVED EQUAL)

FLEXIBLE MANHOLE CONNECTION



DATE: 2010
DRAWING NO. WL-212
FILE NO.

THIS DETAIL DRAWING SHALL NOT BE ALTERED OR CHANGED IN ANY MANNER EXCEPT BY THE CITY ENGINEER. IT IS THE RESPONSIBILITY OF THE USER TO ACQUIRE THE MOST CURRENT VERSION OF THE DETAIL.



PRECAST MANHOLE BASE

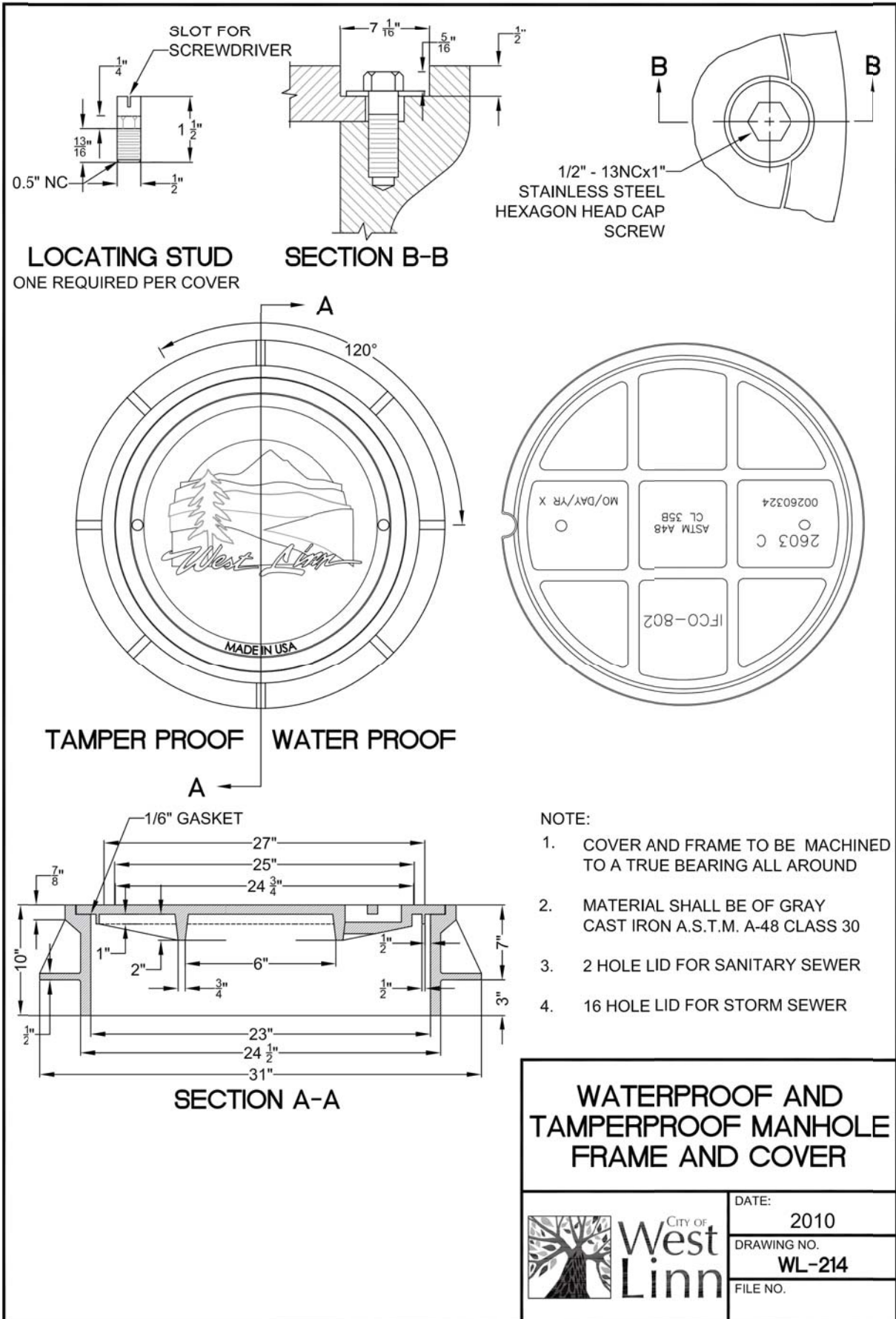
NOTE:
USE 3300 PSI CONCRETE FOR EITHER
MANHOLE BASE.
CONCRETE SHALL CONFORM TO SECTION
205. PRECAST MANHOLES SHALL
CONFORM TO ASTM C478.

MANHOLE BASE



DATE: 2010
DRAWING NO. WL-211
FILE NO.

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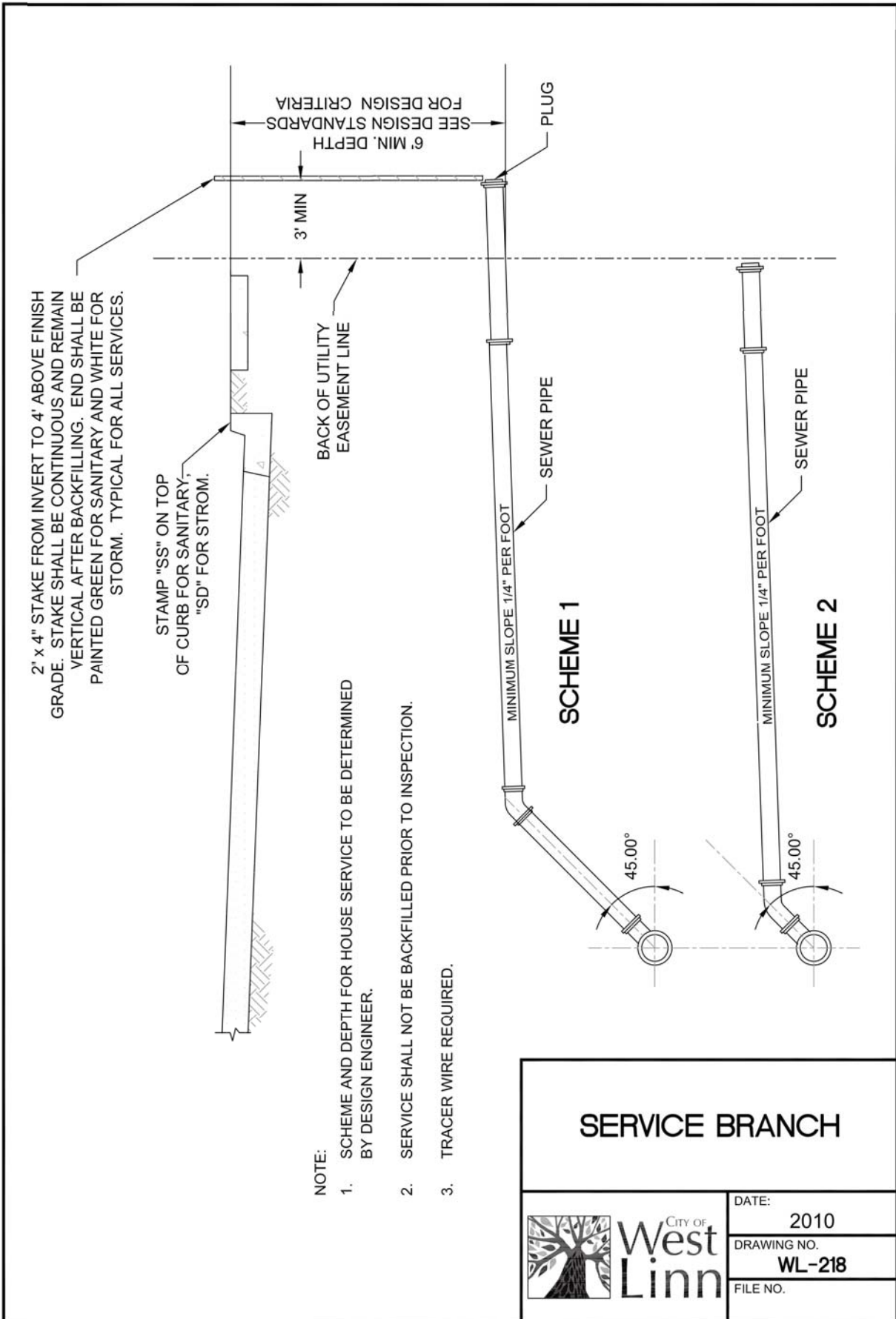


WATERPROOF AND
TAMPERPROOF MANHOLE
FRAME AND COVER



DATE: 2010
DRAWING NO. WL-214
FILE NO.

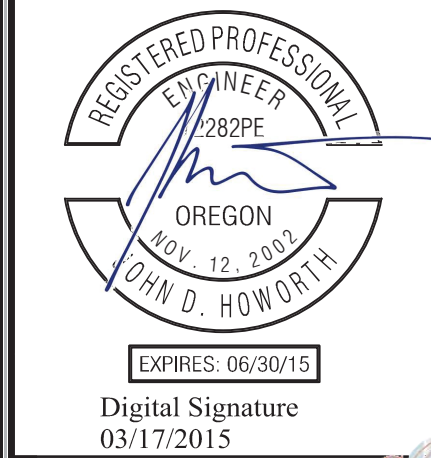
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SERVICE BRANCH



DATE: 2010
DRAWING NO. WL-218
FILE NO.



3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 251E25D08 500
DESIGNED BY | CLF/BCH
CHECKED BY | JDH

SHEET TITLE
STM DETAILS I
SHEET NUMBER

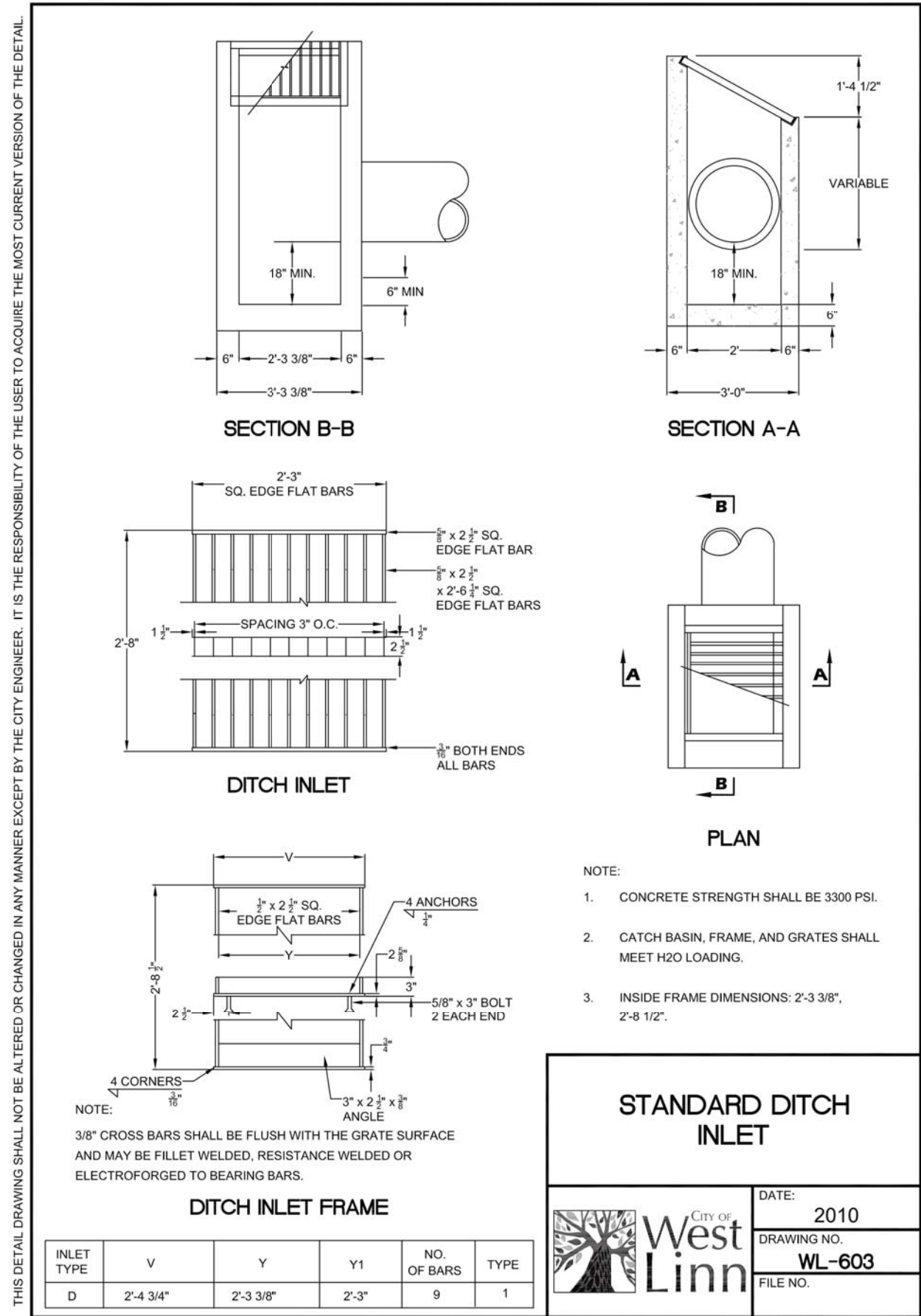
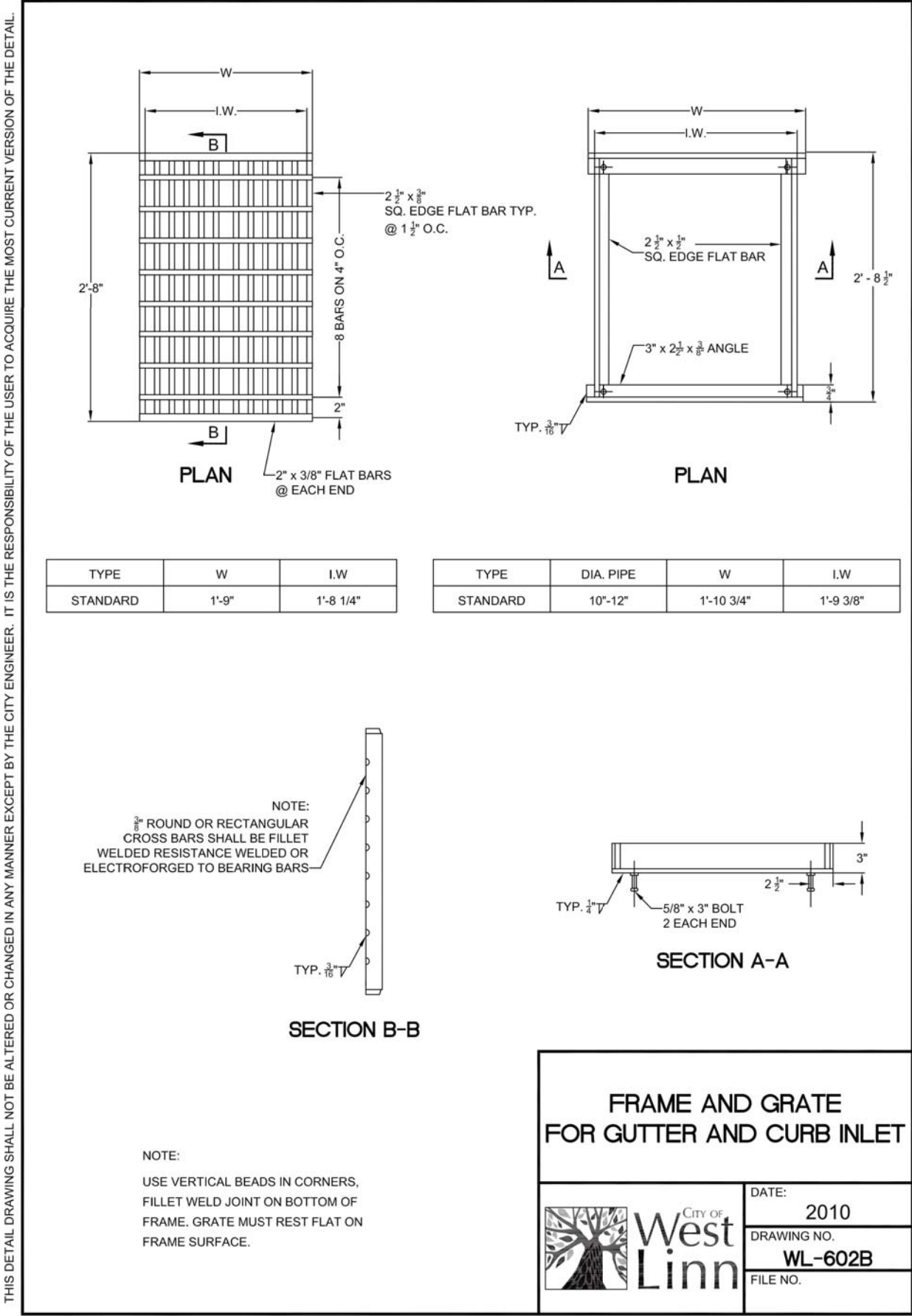
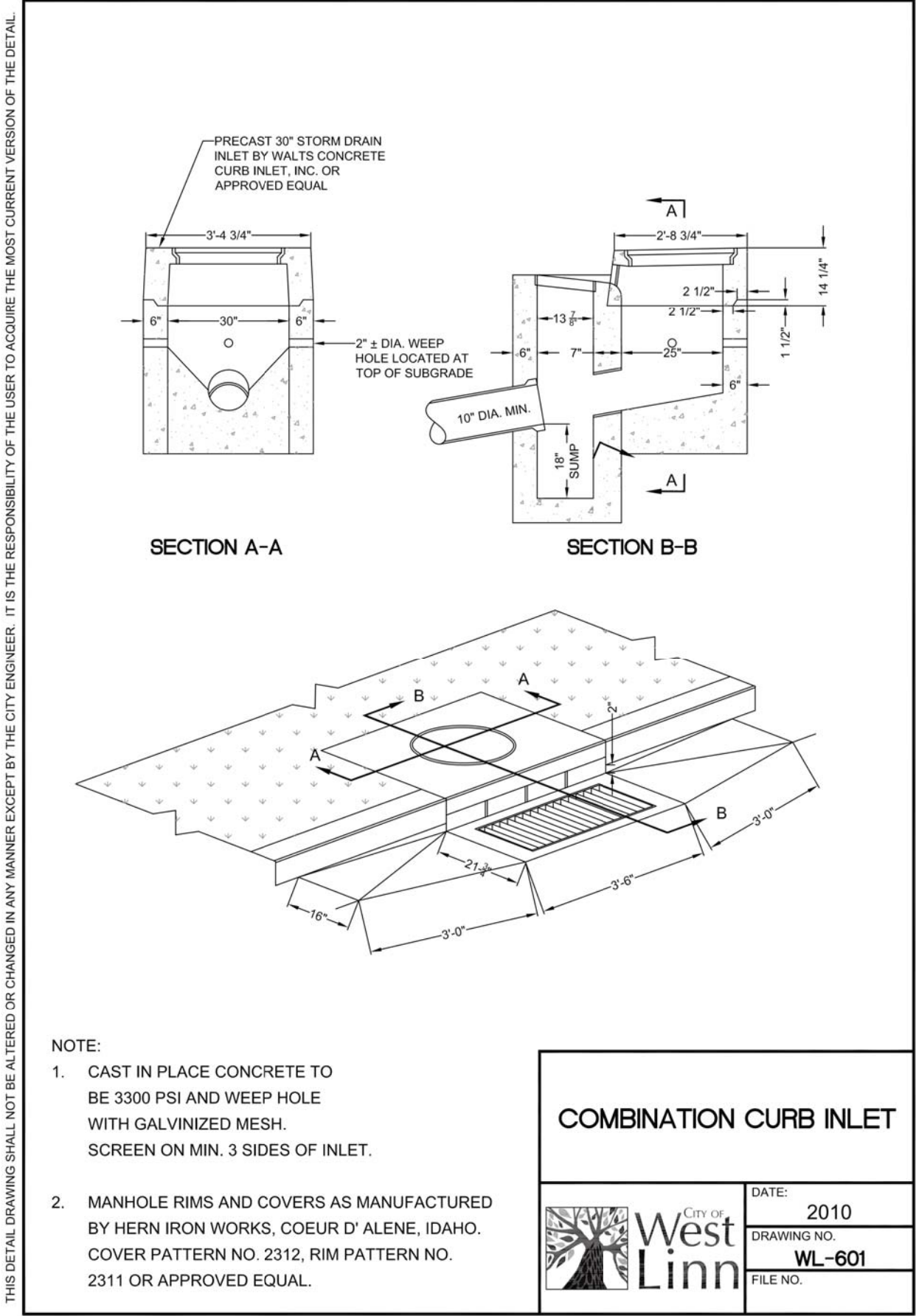
C310

STORMWATER DRAINAGE DETAILS I
HARPER'S TERRACE
SUBDIVISION
LF 10, LLC
WEST LINN, OR

RECORD DRAWING
03/17/2015

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STORM DRAINAGE DETAILS II
HARPER'S TERRACE
SUBDIVISION
LF 10, LLC
WEST LINN, OR

J.T. SMITH
companies

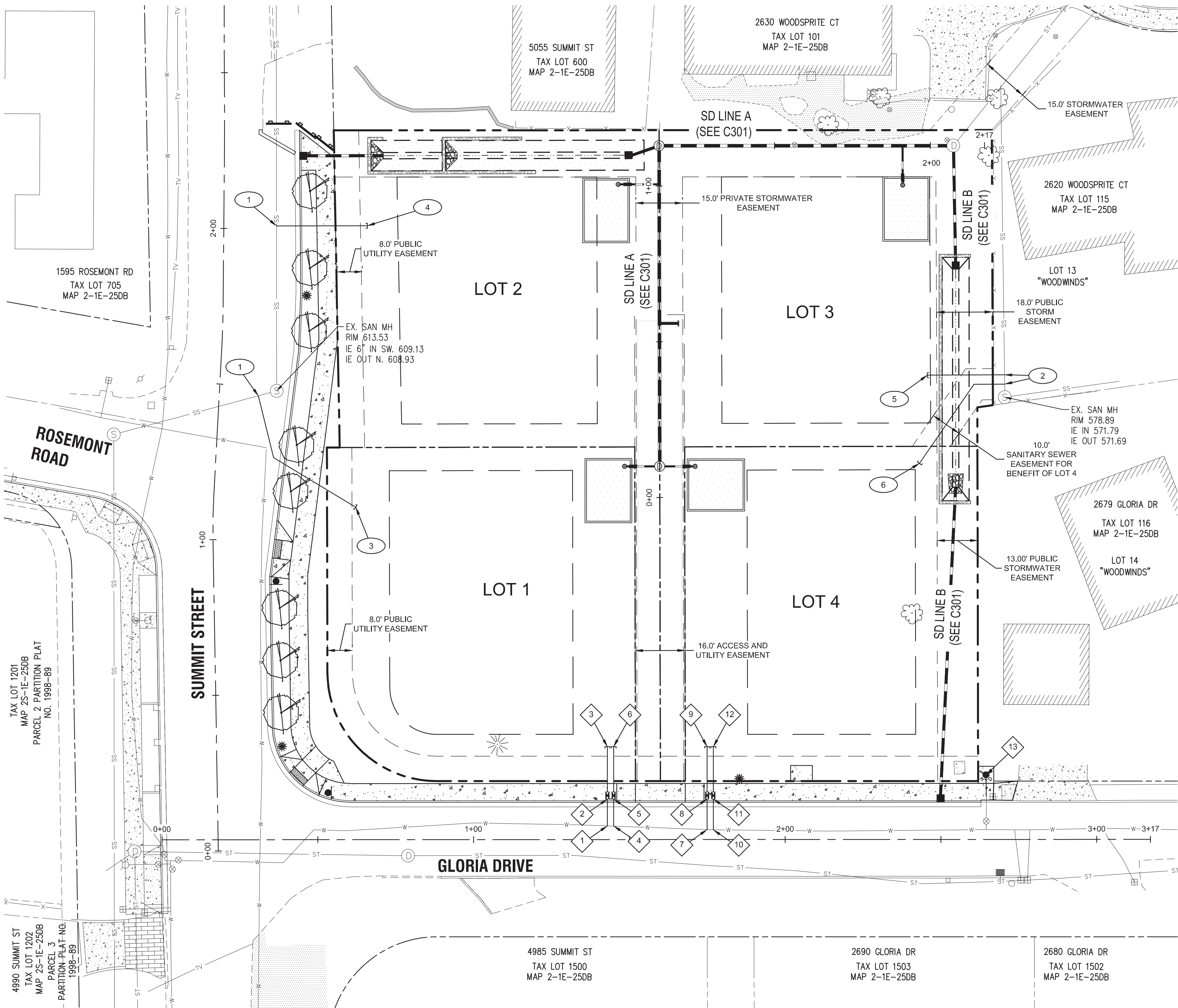
REGISTERED PROFESSIONAL
ENGINEER
282PE
OREGON
NOV. 12, 2007
JOHN D. HOWARTH
EXPIRES: 06/30/15
Digital Signature
03/17/2015

3J CONSULTING, INC.
CIVIL ENGINEERING
WATER RESOURCES
LAND USE PLANNING
5075 SW GRIFFITH DRIVE, STE 150, BEAVERTON, OR 97005
PHONE & FAX: (503) 946-5865

3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 2S1E25DB 500
DESIGNED BY | CLF/BC
CHECKED BY | JDH

SHEET TITLE
STM DETAILS I
SHEET NUMBER

C311



LEGEND

	BOUNDARY LINE		EXISTING STORM MANHOLE
	RIGHT-OF-WAY		EXISTING CATCHBASIN
	EXISTING CENTERLINE		PROPOSED RIGHT-OF-WAY
	EXISTING EASEMENT LINE		PROPOSED LOT LINE
	EXISTING LOT LINE		PROPOSED CENTERLINE
	EXISTING CURB AND GUTTER		PROPOSED CURB AND GUTTER
	EXISTING SANITARY SEWER LINE		PROPOSED SIDEWALK
	EXISTING WATER LINE		STORM DRAIN LINE AND MANHOLE
	EXISTING STORM LINE		STORM SEWER CURB INLET
	EXISTING SIDEWALK		PROPOSED STREET LIGHT
	EXISTING LIGHT POLE		PROPOSED RETAINING WALL
	EXISTING TRAFFIC SIGN		PROPOSED SANITARY
	EXISTING FIRE HYDRANT		PROPOSED WATER LINE
	EXISTING WATER METER		
	EXISTING SANITARY MANHOLE		

SANITARY SEWER CONSTRUCTION NOTES

- 1 STA: 1+46.91, 12.5' RT (LOT 1) AND STA: 2+00.95, 16.9' RT (LOT 2) SUMMIT STREET CL
CORE DRILL EXISTING SANITARY SEWER MAIN AND INSTALL PROPOSED 4" SANITARY LATERALS FOR
LOTS 1 & 2 PER CITY OF WEST LINN STANDARD DETAIL WL-303 ON SHEET C410. FOR ELEVATION DATA
SEE SANITARY LATERAL TABLE THIS SHEET.
- 2 STA: 2+70.49, 149.2' LT (LOT 3) AND STA: 2+70.51, 146.2' LT (LOT 4) GLORIA DRIVE CL
CORE DRILL EXISTING SANITARY SEWER MAIN AND INSTALL PROPOSED 4" SANITARY LATERALS FOR
LOTS 3 & 4 PER CITY OF WEST LINN STANDARD DETAIL WL-303 ON SHEET C410. FOR ELEVATION DATA
SEE SANITARY LATERAL TABLE THIS SHEET.
- 3 SANITARY SEWER STUB (LOT 1)
STA: 1+12.51, 45.7' RT, SUMMIT STREET CL
SEE LATERAL TABLE THIS SHEET FOR ELEVATION DATA.
CAP AND MARK END PER CITY OF WEST LINN STANDARD DETAIL WL-218 ON SHEET C410.
- 4 SANITARY SEWER STUB (LOT 2)
STA: 2+01.25, 46.1' RT, SUMMIT STREET CL
SEE LATERAL TABLE THIS SHEET FOR ELEVATION DATA.
CAP AND MARK END PER CITY OF WEST LINN STANDARD DETAIL WL-218 ON SHEET C410.
- 5 SANITARY SEWER STUB (LOT 3)
STA: 2+45.74, 149.1' LT, GLORIA DRIVE CL
SEE LATERAL TABLE THIS SHEET FOR ELEVATION DATA.
CAP AND MARK END PER CITY OF WEST LINN STANDARD DETAIL WL-218 ON SHEET C410.
- 6 SANITARY SEWER STUB (LOT 4)
STA: 2+43.1, 120.7' LT, GLORIA DRIVE CL
SEE LATERAL TABLE THIS SHEET FOR ELEVATION DATA.
CAP AND MARK END PER CITY OF WEST LINN STANDARD DETAIL WL-218 ON SHEET C410.

SANITARY LATERAL TABLE

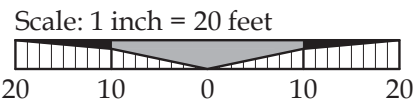
SAN LATERAL	LATERAL SIZE	LENGTH	INVERT AT MAIN	INVERT AT END	DEPTH AT END	MAIN LINE STATION
LOT 1 SANITARY	4"	51.3 LF	609.26	611.00	4.4 FT	1+46.91, 12.6' RT, SUMMIT STREET CL
LOT 2 SANITARY	4"	39.1 LF	600.98	601.70	4.6 FT	2+00.95, 16.9' RT, SUMMIT STREET CL
LOT 3 SANITARY	4"	24.8 LF	±571.77	575.00	9.0 FT	2+70.49, 149.2' LT, GLORIA DRIVE CL
LOT 4 SANITARY	4"	40.7 LF	±571.74	576.10	8.4 FT	2+70.51, 146.2' LT, GLORIA DRIVE CL

WATER LINE CONSTRUCTION NOTES

1	(STA: 1+42.97, 4.41' LT GLORIA DRIVE) INSTALL 1" WATER SERVICE TO EXISTING 12" DIP WATER LINE, INCLUDING 1" CORP. STOP, 1" COPPER PIPE, METER BOX, AND ALL FITTINGS PER CITY OF WEST LINN STANDARD DETAIL WL-402 (STANDARD 1 INCH WATER SERVICE) ON SHEET C410.
2	(STA: 1+42.97, 13.0' LT GLORIA DRIVE) INSTALL 1" METER BOX WITHIN CURB TIGHT SIDEWALK PER CITY OF WEST LINN STANDARD DETAIL WL-402 (STANDARD 1 INCH WATER SERVICE) ON SHEET C410.
3	(STA: 1+42.97, 29.8' LT GLORIA DRIVE) CAP 1" STUB-OUT 3' BEYOND PUE AND MARK w/ 2x4.
4	(STA: 1+44.97, 4.33' LT GLORIA DRIVE) INSTALL 1" WATER SERVICE TO EXISTING 12" DIP WATER LINE, INCLUDING 1" CORP. STOP, 1" COPPER PIPE, METER BOX, AND ALL FITTINGS PER CITY OF WEST LINN STANDARD DETAIL WL-402 (STANDARD 1 INCH WATER SERVICE) ON SHEET C410.
5	(STA: 1+44.97, 13.0' LT GLORIA DRIVE) INSTALL 1" METER BOX WITHIN CURB TIGHT SIDEWALK PER CITY OF WEST LINN STANDARD DETAIL WL-402 (STANDARD 1 INCH WATER SERVICE) ON SHEET C410.
6	(STA: 1+44.97, 29.8' LT GLORIA DRIVE) CAP 1" STUB-OUT 3' BEYOND PUE AND MARK w/ 2x4.
7	(STA: 1+74.97, 3.19' LT GLORIA DRIVE) INSTALL 1" WATER SERVICE TO EXISTING 12" DIP WATER LINE, INCLUDING 1" CORP. STOP, 1" COPPER PIPE, METER BOX, AND ALL FITTINGS PER CITY OF WEST LINN STANDARD DETAIL WL-402 (STANDARD 1 INCH WATER SERVICE) ON SHEET C410.
8	(STA: 1+74.98, 13.0' LT GLORIA DRIVE) INSTALL 1" METER BOX WITHIN CURB TIGHT SIDEWALK PER CITY OF WEST LINN STANDARD DETAIL WL-402 (STANDARD 1 INCH WATER SERVICE) ON SHEET C410.
9	(STA: 1+74.98, 29.8' LT GLORIA DRIVE) CAP 1" STUB-OUT 3' BEYOND PUE AND MARK w/ 2x4.
10	(STA: 1+76.97, 3.11' LT GLORIA DRIVE) INSTALL 1" WATER SERVICE TO EXISTING 12" DIP WATER LINE, INCLUDING 1" CORP. STOP, 1" COPPER PIPE, METER BOX, AND ALL FITTINGS PER CITY OF WEST LINN STANDARD DETAIL WL-402 (STANDARD 1 INCH WATER SERVICE) ON SHEET C410.
11	(STA: 1+76.98, 13.00' LT GLORIA DRIVE) INSTALL 1" METER BOX WITHIN CURB TIGHT SIDEWALK PER CITY OF WEST LINN STANDARD DETAIL WL-402 (STANDARD 1 INCH WATER SERVICE) ON SHEET C410.
12	(STA: 1+76.98, 29.8' LT GLORIA DRIVE) CAP 1" STUB-OUT 3' BEYOND PUE AND MARK w/ 2x4.
13	PRIOR TO INSTALLATION OF FIRE HYDRANT, CONTRACTOR TO VERIFY ELEVATION WITH CITY OF WEST LINN PUBLIC WORKS DEPARTMENT. SEE CITY OF WEST LINN STANDARD DETAIL WL-401 (STANDARD FIRE HYDRANT ASSEMBLY) ON SHEET C311.

GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION AT NO COST TO THE DEVELOPER.
2. ALL WATER PIPE TO BE DUCTILE IRON PIPE UNLESS OTHERWISE NOTED.
3. WATER SYSTEM TO BE INSTALLED AND TESTED PER CITY OF WEST LINN STANDARD CONSTRUCTION SPECIFICATIONS.
4. ALL SEWER PIPE TO BE PVC AND SHALL CONFORM TO ASTM D-3034 UNLESS OTHERWISE NOTED.
5. EXTEND PRIVATE UTILITIES WITH A JOINT TRENCH WITHIN 8' PUE SHOWN. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER TO OBTAIN DESIGN INFORMATION.
6. ALL UTILITY LATERAL LOCATIONS MUST BE STAMPED ON NEW CURB.



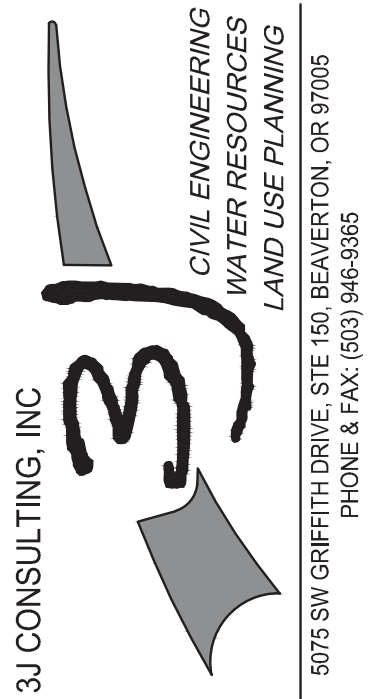
RECORD DRAWING
03/17/2015

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SANITARY SEWER AND WATER PLAN

HARPER'S TERRACE
SUBDIVISION

LF 10, LLC
WEST LINN, OR



3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 251E25DB 500
DESIGNED BY | CLF/BCB
CHECKED BY | JDH

SHEET TITLE
SEWER & WATER
SHEET NUMBER

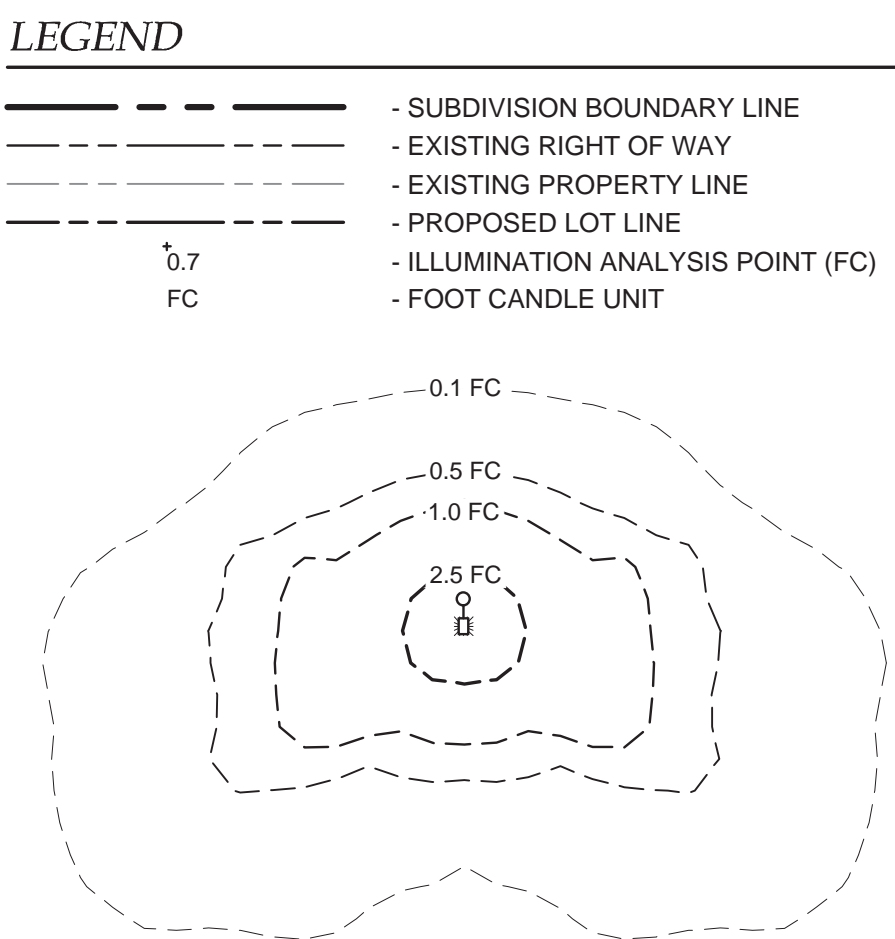
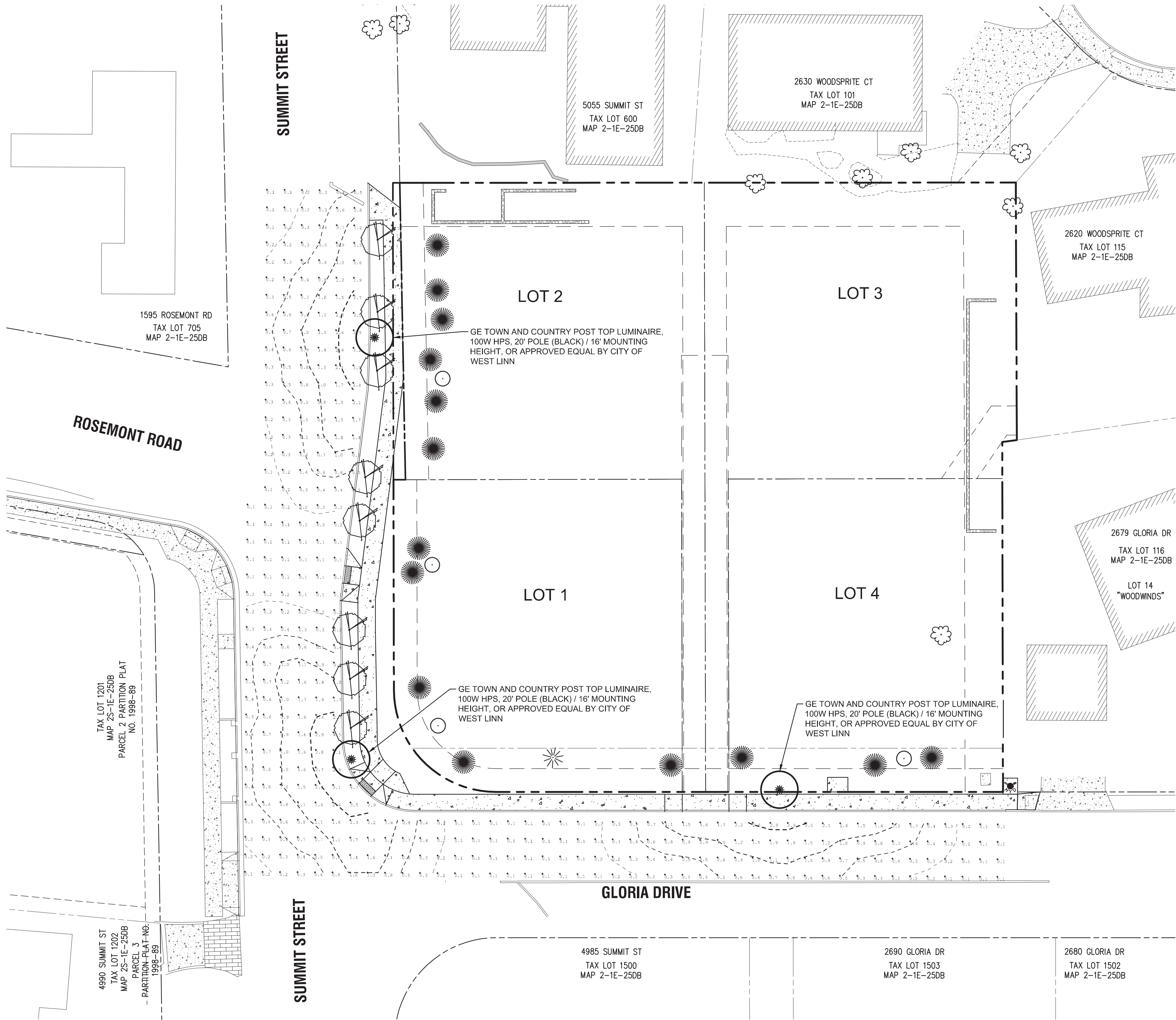
C400

DATE:	201
DRAWING NO.	WL-4
FILE NO.	

010
NO.
-401


 CITY OF
**West
Linn**

C410



STREET LIGHTING STATISTICS		
ROAD CLASSIFICATION (SUMMIT ST)	COLLECTOR (RESIDENTIAL)	AVERAGE MAINTAINED ILLUMINATION REQUIRED: 0.6 FC
ROAD CLASSIFICATION (GLORIA DR)	LOCAL (RESIDENTIAL)	AVERAGE MAINTAINED ILLUMINATION REQUIRED: 0.4 FC
EXISTING LIGHT(S) INCLUDED	0	
MAX. ILLUMINATION	4.7 FC	
MIN. ILLUMINATION	0.1 FC	
AVERAGE ILLUMINATION	0.75 FC	
UNIFORMITY (AVG/MIN)	7.5	

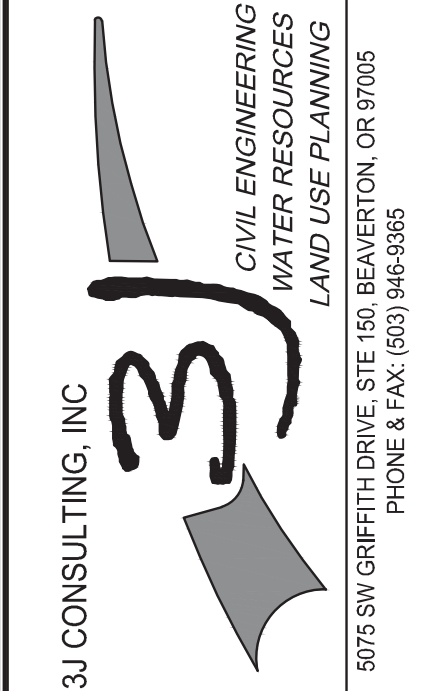
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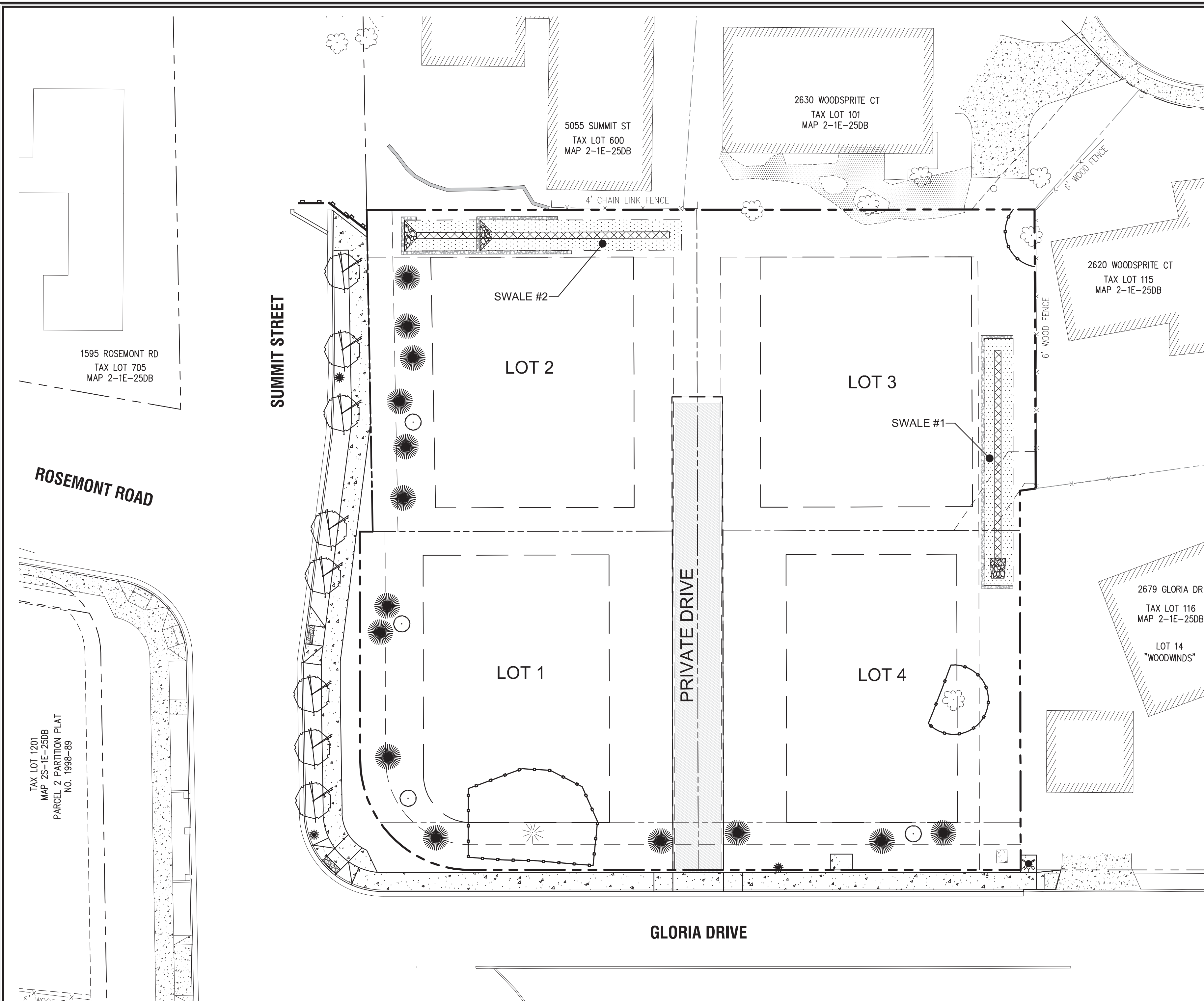
STREET LIGHTING PLAN
HARPER'S TERRACE
SUBDIVISION
LF 10, LLC
WEST LINN, OR



3J JOB ID # | 13123
LAND USE # | SUB-13-05
TAX LOT # | 251E25DB 500
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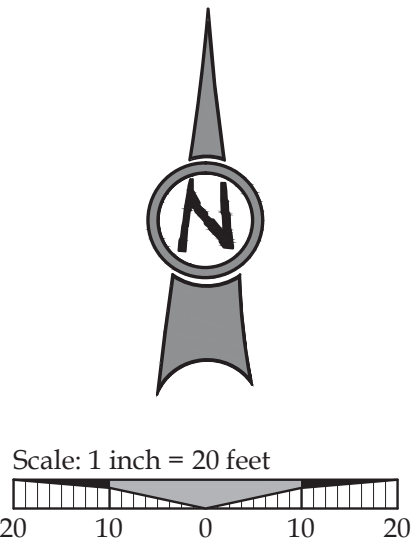
SHEET TITLE
LIGHTING PLAN
SHEET NUMBER

C500



LEGEND

- SUBDIVISION BOUNDARY LINE
- EXISTING RIGHT OF WAY
- EXISTING PROPERTY LINE
- PROPOSED RIGHT OF WAY
- PROPOSED LOT LINE
- PROPOSED EASEMENT
- PROPOSED SETBACK LINE
- TREE PROTECTION FENCING
- PROPOSED PERVIOUS PAVING
- PROPOSED CONCRETE



PLANT MATERIALS SCHEDULE

	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	QUANTITY
	SCARLET OAK	QUERCUS COCCINIA	2" CAL.	22' MIN	8
	VINE MAPLE	ACER CIRCINATUM	6' / 2" CAL.	10' MIN	4
	WESTERN RED CEDAR	THUJA PLICATA	2" CAL.	12' MIN	14

TOTAL PROPOSED TREE COUNT: 26
TOTAL MITIGATION REQUIREMENT: 36" (CALIPER MEASUREMENT)
STREET TREES NOT INCLUDED IN MITIGATION COUNT

GENERAL LANDSCAPING NOTES

- LANDSCAPE PLANTING SHALL CONFIRM TO THE STANDARDS ESTABLISHED UNDER THE WEST LINN STANDARDS FOR LANDSCAPE PLANTING
- ALL PLANT BEDS SHALL HAVE A 3" DEPTH OF BARK MULCH
- ALL PLANT MATERIAL DELIVERED TO THIS SITE SHALL MEET THE AMERICAN NURSERYMAN'S ASSOCIATION STANDARDS.
- CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FOR ALL PLANT MATERIAL SUBSTITUTIONS FROM THE CIVIL ENGINEER PRIOR TO INSTALLATION. PLANT SUBSTITUTIONS WITHOUT PRIOR WRITTEN APPROVAL THAT DO NOT COMPLY WITH THE DRAWINGS AND SPECIFICATIONS MAY BE REJECTED BY THE LANDSCAPE ARCHITECT AT NO COST TO THE OWNER. THESE ITEMS MAY BE REQUIRED TO BE REPLACED WITH PLANT MATERIALS THAT ARE IN COMPLIANCE WITH THESE DRAWINGS.

WATER QUALITY SWALE PLANTING NOTES

- INSTALL WATER QUALITY PLANTINGS PER CITY OF PORTLAND STANDARD VEGETATED SWALE DETAIL SW-120 AND SW-303.
- SWALE ZONE "A".
- SWALE ZONE "B".

SWALE #1

SWALE ZONE "A" (140 SF)	TYPE	PLANTING RATE	SIZE	SPACING DENSITY (O.C.)	QTY
SLOUGH SEDGE	HERBACEOUS PLANTS	300/100 SF	6" PLUGS	6"	420
RED-TWIG DOGWOOD	SMALL SHRUBS	4 /100 SF	1 GALLON	3'	6

SWALE ZONE "B" (576 SF)	TYPE	PLANTING	SIZE	SPACING DENSITY (O.C.)	QTY
WESTERN SERVICEBERRY	DECIDUOUS TREE	1/ 200 SF	MIN. CALIPER 1-1/2" AT 6" ABOVE BASE	-	3
AND					
BLACK TWINBERRY	LARGE SHRUB	3/ 100 SF	3 GALLON OR EQUIV.	4'	17
PACIFIC NINEBARK	MED. TO SMALL SHRUBS	4/ 100 SF	1 GALLON OR EQUIV.	2'	23
COASTAL STRAWBERRY	GROUNDCOVER	4/ SF	4" OR EQUIV.	6"	2,304

SWALE #2

SWALE ZONE "A" (160 SF)	TYPE	PLANTING RATE	SIZE	SPACING DENSITY (O.C.)	QTY
SLOUGH SEDGE	HERBACEOUS PLANTS	300/100 SF	6" PLUGS	6"	480
RED-TWIG DOGWOOD	SMALL SHRUBS	4 /100 SF	1 GALLON	3'	6

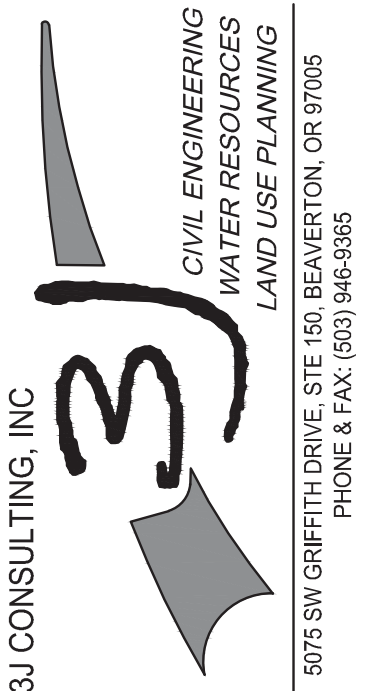
SWALE ZONE "B" (691 SF)	TYPE	PLANTING	SIZE	SPACING DENSITY (O.C.)	QTY
BLUE ARCTIC WILLOW	DECIDUOUS TREE	1/ 200 SF	MIN. CALIPER 1-1/2" AT 6" ABOVE BASE	-	4
AND					
OCEANSPRAY	LARGE SHRUB	3/ 100 SF	3 GALLON OR EQUIV.	4'	21
PACIFIC NINEBARK	MED. TO SMALL SHRUBS	4/ 100 SF	1 GALLON OR EQUIV.	2'	28
COASTAL STRAWBERRY	GROUNDCOVER	4/ SF	4" OR EQUIV.	6"	2,764

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MITIGATION PLANTING PLAN
HARPER'S TERRACE
SUBDIVISION
LF 10, LLC
WEST LINN, OR



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LAND USE # | SUB-13-05
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SHEET TITLE
MITIGATION PLAN
SHEET NUMBER

L100