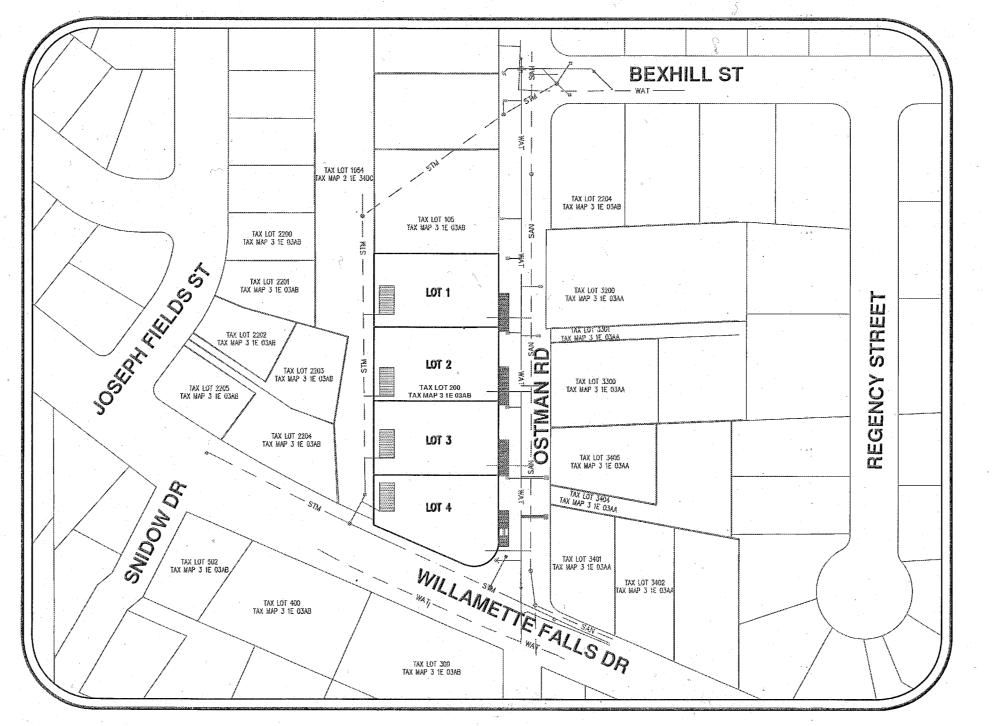


VICINITY MAP SCALE: 1" = 1000'

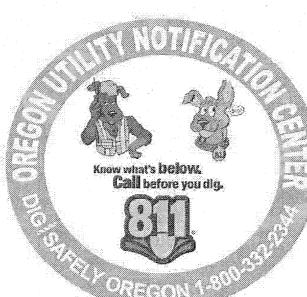
LEGEND **PROPOSED** PROPOSED **DECIDUOUS TREE** STORM SEWER CLEAN OUT STORM SEWER CATCH BASIN CONIFEROUS TREE STORM SEWER MANHOLE GAS METER WATER BLOWOFF GAS VALVE (3) WATER METER **GUY WIRE ANCHOR** POWER POLE WATER VALVE Р POWER VAULT WATER REDUCER DOUBLE CHECK VALVE POWER PEDESTAL AIR RELEASE VALVE C SANITARY SEWER CLEAN OUT O COMMUNICATIONS JUNCTION BOX SANITARY SEWER MANHOLE O COMMUNICATIONS RISER MAILBOX STREET LIGHT **EXISTING PROPOSED** RIGHT-OF-WAY LINE **BOUNDARY LINE** PROPERTY LINE CENTERLINE EDGE OF PAVEMENT EASEMENT FENCE LINE **GRAVEL EDGE** POWER LINE OVERHEAD WIRE COMMUNICATIONS LIN FIBER OPTIC LINE GAS LINE SANITARY SEWER LIN WATER LINE



SITE MAP SCALE: 1" = 100'

ATTENTION EXCAVATORS:

RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS BUT NOT MORE THAN JEN BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.



COOO - COVER SHEET WITH VICINITY AND SITE MAPS

COO1 - CONSTRUCTION NOTES

COO2 - EXISTING CONDITIONS PLAN AND TREE TABLE

C103 - STREET DETAILS

C104 - STREET DETAILS

C200 - PUBLIC STORM SEWER PLAN AND PROFILE -

L100 - LANDSCAPING PLAN

CO52 - PHASE II GRADING AND EROSION PLAN

C102 - STREET PLAN AND PROFILE - OSTMAN ROAD

C110 - STRIPING AND SIGNAGE PLAN

C300 - PUBLIC SANITARY SEWER PLAN AND PROFILE -

C301 - SANITARY SEWER DETAILS

C401 - WATER DETAILS

SHEET INDEX

C101 - STREET PLAN AND PROFILE - WILLAMETTE FALLS

C201 - PUBLIC STORM SEWER DETAILS

OSTMAN ROAD

CO30 - DEMOLITION AND TREE REMOVAL AND

CO51 - PHASE I EROSION AND SEDIMENT CONTROL PLAN

C100 - STREET PLAN AND CROSS SECTIONS

C202 - PRIVATE STORM SEWER PLAN

C400 - WATER PLAN

PRESERVATION PLAN

CO50 - EROSION AND SEDIMENT CONTROL COVER SHEET

CO53 - EROSION CONTROL DETAILS

OSTMAN ROAD

TAX LOT 200, CLACKAMAS COUNTY ASSESSOR'S MAP 3 1E 03AB,

FOUR LOT RESIDENTIAL SUBDIVISION FOR FUTURE SINGLE-FAMILY DETACHED HOMES IN THE R-10 ZONE, AS APPROVED IN THE CITY OF WEST LINN FINAL DECISION NOTICE DATED 4-10-2014 FOR SUB-14-01/VAR-14-01/VAR-14-02/VAR-14-03/VAR-14-04/VAR-14-05.

FIRE

VERTICAL DATUM: ELEVATIONS ARE BASED ON NGS BENCHMARK 89 B (PID: RD0258) ON THE WEST SIDE OF HIGHWAY 99E, 2.4 MILES SOUTH OF THE PROJECT SITE WITH A NAVD 88 ELEVATION OF 93.78 FEET.

44,463 SF± (1.02 ACRES±)

PORTLAND GENERAL ELECTRIC 121 SW SALMON ST

PORTLAND, OREGON. 97024

COMCAST

BEAVERTON, OREGON, 97008

TELEPHONE CENTURY LINK 1001 MOLALLA AVE

PH: (888) 496-1650 GAS

NW NATURAL 220 NW 2ND AVE PORTLAND, OREGON. 97209 PH: (503) 226-4211

OWNER/APPLICANT:

RENAISSANCE HOMES 16771 BOONES FERRY ROAD LAKE OSWEGO, OR 97035

PLANNING/CIVIL ENGINEERING/SURVEYING LANDSCAPE ARCHITECTURE FIRM (APPLICANT'S REPRESENTATIVE):

RIGHT-OF-WAYS OR EASEMENTS.

AS-BUILT DISCLAIMER:
AS-BUILT INFORMATION IS BASED ON A COMBINATION OF FIELD SURVEY INFORMATION, INSPECTION INFORMATION, AND CONTRACTOR—PROVIDED INFORMATION. THE ENGINEER ONLY CERTIFIES INFORMATION WHICH

COULD BE FIELD-VERIFIED AFTER CONSTRUCTION WAS COMPLETED. AS-BUILTS ARE ONLY FOR PUBLIC IMPROVEMENTS WITHIN PUBLIC

AKS ENGINEERING & FORESTRY, LLC CONTACT: MONTY HURLEY 12965 SW HERMAN DR, SUITE 100 TUALATIN, OR 97062 PH: 503-563-6151 FAX: 503-563-6152

SITE LOCATION:

1770 OSTMAN ROAD WEST LINN, OR 97068

SITE DESCRIPTION:

LOCATED IN THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 3, TOWNSHIP 3 SOUTH, RANGE 1 EAST, WILLAMETTE MERIDIAN, CITY OF WEST LINN, CLACKAMAS COUNTY, OREGON

PROJECT PURPOSE:

BENCHMARK:

TOTAL SITE AREA:

UTILITY CONTACTS:

POWER

PH: (503) 736-5450

CABLE / INTERNET 9605 SW NIMBUS

PH: (503) 912-8307 PH: (503) 557-3900

WATER / SANITARY / STORM SEWER CITY OF WEST LINN PUBLIC WORKS 22500 SALAMO RD OREGON CITY, OREGON. 97045 WEST LINN, OREGON. 97034

TUALATIN VALLEY FIRE AND RESCUE

WEST LINN REFUSE AND RECYCLING

11945 SW 70TH AVENUE

TIGARD, OREGON, 97223

PH: (503) 649-8577

1600 SE 4TH AVE

CANBY, OREGON. 97013

GARBAGE

PH: (503) 656-4261

E E

DESIGNED BY: DATE: 2/9/2015

RENEWAL DATE: 6/30/15

JOB NUMBER 3745

C000

SHEET

2. THE LOCATIONS, DEPTHS AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ARE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. ADDITIONAL UTILITIES MAY EXIST WITHIN THE WORK AREA.

3. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED PRIOR TO COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

4. CONTRACTOR MUST VERIFY ALL EXISTING UTILITIES FOR BOTH VERTICAL ELEVATION AND HORIZONTAL LOCATION PRIOR TO START OF WORK (POTHOLE BEFORE DIGGING IF NECESSARY). SHOULD CONFLICTS ARISE AND REDESIGN OR RELOCATION OF FACILITIES IS NECESSARY, IT SHALL BE DONE AT THE CONTRACTOR'S EXPENSE, CHANGES MUST BE APPROVED BY THE PROJECT ENGINEER IN ADVANCE OF WORK, CONTRACTOR SHALL COORDINATE THE WORK WITH APPLICABLE AGENCIES.

5. TRENCHES OUTSIDE OF THE FUTURE PAVED OR CONCRETE AREAS MAY BE BACKFILLED WITH NATIVE MATERIAL IN ACCORDANCE WITH COMPACTION SPECIFICATIONS FOR APWA CLASS A BACKFILL. CONTRACTOR SHALL CHECK WITH PROJECT ENGINEER AND VERIFY.

6. SUBSEQUENT SETTLEMENT OR CRACKING OF FINISHED SURFACES WITHIN THE WARRANTY PERIOD SHALL BE CONSIDERED TO BE A FAILURE OF THE SUBGRADE, AND REPAIRED IN A MANNER ACCEPTABLE TO AND AT NO COST TO THE CITY OR DEVELOPER.

7. THE CONTRACTOR SHALL CONTROL TRAFFIC THROUGH THE PROJECT SITE IN CONFORMANCE WITH THE LATEST EDITION OF "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "OREGON SUPPLEMENTS", AND CITY REQUIREMENTS. THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN LOCAL ACCESS FOR OWNERS NEAR THE PROJECT SITE. THE CONTRACTOR SHALL PROVIDE A PROJECT-SPECIFIC TRAFFIC CONTROL PLAN, APPROVED BY THE CITY, AND AVAILABLE ON THE PROJECT SITE.

8. THE CONTRACTOR SHALL HAVE A MINIMUM OF ONE (1) SET OF APPROVED CONSTRUCTION PLANS ON THE JOB SITE AT ALL TIMES DURING THE CONSTRUCTION PHASES.

CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL EARTHWORK, TRENCH BACKFILL, ROAD CONSTRUCTION COMPACTION TESTS, AND GEOTECHNICAL REVIEWS WITH THE PROJECT'S GEOTECHNICAL ENGINEER AND THE CITY.

10. CONTRACTOR SHALL MAINTAIN BENCHMARKS, PROPERTY CORNERS, AND MONUMENTS. IF SUCH POINTS ARE DISTURBED OR DESTROYED BY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, AND IF REQUIRED BY ORS 209, THE CONTRACTOR SHALL PAY FOR THEIR REPLACEMENT BY EMPLOYING A PROFESSIONAL LAND SURVEYOR TO RESET PROPERTY CORNERS AND OTHER SUCH MONUMENTS.

11. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING ITEMS: A. LIST OF SUBCONTRACTORS

B. PROJECT SCHEDULE

C. TRAFFIC CONTROL PLAN

D. EMERGENCY CONTACT NAME AND PHONE NUMBER

12. PRIOR TO FINAL ACCEPTANCE AND PAYMENT, THE CONTRACTOR SHALL CLEAN THE WORK SITE AND ADJACENT AREAS OF ANY DEBRIS, DISCARDED ASPHALTIC CONCRETE MATERIAL, OR OTHER ITEMS DEPOSITED BY THE CONTRACTOR'S PERSONNEL DURING THE PERFORMANCE OF THIS CONTRACT.

13. PUBLIC ROADWAYS SHALL NOT BE CLOSED TO TRAFFIC, AT ANY TIME, WITHOUT HAVING FIRST OBTAINED A STREET CLOSURE PERMIT FROM THE CITY. THE CONTRACTOR IS RESPONSIBLE FOR PROVISION OF TIMELY NOTIFICATION OF TRAFFIC FLOW DISRUPTIONS TO AREA-WIDE EMERGENCY SERVICES, TRI-MET BUS SERVICE, AND THE SCHOOL DISTRICT.

14. TRAFFIC CONTROL DEVICES, FLAG PERSONS, ETC., SHALL BE IN PLACE PRIOR TO INITIATION OF CONSTRUCTION WORK AND SHALL BE EFFECTIVELY MAINTAINED. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO ANY WORK WITHIN EXISTING RIGHT-OF-WAY.

15. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER OR THE CITY FORTY-EIGHT (48) HOURS PRIOR TO ANY STAGED INSPECTION.

16. A COPY OF THE PERMIT WITH ALL ATTACHMENTS, A COPY OF THE APPROVED CONSTRUCTION PLANS, AND ALL AMENDMENTS SHALL BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. ALL WORK SHALL CONFORM TO THE PERMIT TERMS, CONDITIONS/PROVISIONS, CITY-APPROVED CONSTRUCTION PLANS, APPROVED PLAN AMENDMENTS, AND THESE GENERAL CONDITIONS. CHANGES TO ANY OF THE AFORESAID MUST BE APPROVED BY THE PROJECT ENGINEER AND CITY, IN ADVANCE OF WORK PERFORMANCE.

18. MAINTENANCE OF THE WORK AREA AND APPROACH ROADS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE WORK AREA AND APPROACH ROADS SHALL BE MAINTAINED IN A CLEAN AND SANITARY CONDITION, FREE FROM OBSTRUCTIONS, HAZARDS, DEBRIS, AND TRASH AT ALL TIMES. A COPY OF THE CONTRACTOR CERTIFICATE OF INSURANCE SHALL BE AVAILABLE AT THE WORK AREA.

19. THE SPREADING OF MUD OR DEBRIS OR STORAGE OF MATERIAL OR EQUIPMENT OF ANY KIND UPON ANY PUBLIC ROADWAY IS STRICTLY PROHIBITED AND VIOLATION SHALL BE CAUSE FOR IMMEDIATE SUSPENSION OF THE PERMIT. THE PROJECT ENGINEER AND/OR CITY MAY AT ANY TIME ORDER IMMEDIATE CLEAN UP AND STOPPAGE OF WORK TO ACCOMPLISH CLEAN-UP

20. EFFECTIVE EROSION CONTROL IS REQUIRED. EROSION CONTROL DEVICES MUST BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE APPROVED BY THE CITY.

21. PROPERTY DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED. GRASS, SHRUBS, FLOWERS, BARK DUST, EXISTING SIGNS, PAVEMENT MARKINGS, MAILBOXES, ETC. DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE RE-ESTABLISHED, REINSTALLED OR REPLACED, WITH LIKE KIND AND MATERIAL.

22. EFFECTIVE DRAINAGE CONTROL IS REQUIRED. DRAINAGE SHALL BE CONTROLLED WITHIN THE SITE AND SHALL BE ROUTED SO THAT ADJACENT PRIVATE PROPERTY, PUBLIC PROPERTY, AND THE RECEIVING SYSTEM ARE NOT ADVERSELY IMPACTED. THE PROJECT ENGINEER AND/OR CITY MAY AT ANY TIME ORDER CORRECTIVE ACTION AND STOPPAGE OF WORK TO ACCOMPLISH EFFECTIVE DRAINAGE CONTROL.

23. A TEMPORARY HARD-SURFACE PATCH (COLD MIX AC OR HOT MIX BASE PAVING) SHALL BE PLACED ON TRENCHES WITHIN EXISTING ROADWAYS AT THE END OF EACH DAY'S WORK. NO TRENCH, ON-SITE OR OFF-SITE, SHALL BE LEFT AT ANY TIME IN AN UNSAFE CONDITION. THE CONTRACTOR IS RESPONSIBLE AND LIABLE FOR HAZARDS OR DAMAGE RESULTING FROM THE PROSECUTION OF THE WORK.

24. WORK PROVIDED FOR UNDER THE PERMIT SHALL INCLUDE REPAIR OF EXISTING FACILITIES (ROADS, DITCHES, ETC.) AS MAY BE NECESSARY, IN THE PROJECT ENGINEER'S OPINION, TO OVERCOME DETERIORATION OR DAMAGE WHICH OCCURRED IN CONJUNCTION WITH THE WORK AUTHORIZED BY THE PERMIT. CORRECTIVE WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

25. THE PROJECT ENGINEER MAY, AT THEIR DISCRETION, REQUIRE THE PROVISION OF TESTS AND/OR REPORTS FROM THE CONTRACTOR TO VALIDATE CLAIMS OF MATERIAL OR CONSTRUCTION ADEQUACY/COMPLIANCE. SUCH TESTS/REPORTS SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE.

26. THE CONTRACTOR IS TO COORDINATE CONSTRUCTION OF DRY UTILITIES WITH THE UTILITY COMPANIES (POWER, TELEPHONE, GAS, AND CABLE TELEVISION).

27. POWER, TELEPHONE, GAS, AND CABLE TELEVISION TRENCHING AND CONDUITS ARE TO BE INSTALLED PER UTILITY COMPANY REQUIREMENTS WITH PULL WIRE. VERIFY WITH UTILITY COMPANY FOR SIZE AND TYPE OF CONDUIT PRIOR TO CONSTRUCTION.

28. THE PROJECT ENGINEER RESERVES THE RIGHT TO ADJUST GRADES OR ALIGNMENT TO ACCOMMODATE OTHER UTILITIES AS REQUIRED; SUCH ADJUSTMENTS OR REVISIONS SHALL BE REVIEWED BY THE CITY AND APPROVED PRIOR TO COMMENCEMENT OF WORK.

29. PROPERTY AND RIGHT-OF-WAY LINES SHOWN ARE APPROXIMATE. THESE PLANS ARE NOT MEANT TO SERVE BOUNDARY SURVEY PURPOSES.

30. ALL LENGTHS ARE HORIZONTAL DISTANCES AND SHALL BE CONSIDERED APPROXIMATE. PIPE LENGTHS ARE FROM CENTER OF STRUCTURE (MANHOLE) TO CENTER OF STRUCTURE (MANHOLE).

31. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION.

32. THE CONTRACTOR SHALL MAKE PROVISIONS TO KEEP ALL EXISTING UTILITIES IN SERVICE AND PROTECT THEM DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY DAMAGED UTILITIES USING MATERIALS AND METHODS APPROVED BY THE UTILITY OWNER. NO SERVICE INTERRUPTIONS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN AGREEMENT WITH THE UTILITY PROVIDER.

 THE CONTRACTOR SHALL REMOVE AND DISPOSE OF TREES, STUMPS, BRUSH, ROOTS, TOPSOIL, AND OTHER MATERIAL IN THE ROADWAY AND WHERE INDICATED ON THE PLANS. MATERIAL SHALL BE DISPOSED OF IN SUCH A MANNER AS TO MEET ALL APPLICABLE REGULATIONS.

34. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT "REDLINE DRAWINGS" TO THE PROJECT ENGINEER. "REDLINE DRAWINGS" DOCUMENT ALL DEVIATIONS AND REVISIONS TO THE APPROVED PLANS; THEY ALSO RECORD A DESCRIPTION OF CONSTRUCTION MATERIALS ACTUALLY USED (PIPE MATERIAL, ETC.).

35. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THIS PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS INCLUDING SUCH INCIDENTALS, AS MAY BE NECESSARY TO MEET THE INTENT OF THE PROJECT CONTRACT DOCUMENTS, APPLICABLE AGENCY REQUIREMENTS, AND OTHER WORK AS NECESSARY TO PROVIDE A COMPLETE PROJECT.

THERE SHALL BE NO ALTERATION OR VARIANCE FROM THE APPROVED PLANS WITHOUT APPROVAL OF THE PROJECT ENGINEER.

37. THE CONTRACTOR SHALL MAINTAIN AND COORDINATE ACCESS TO ALL AFFECTED PROPERTIES.

38. IF GROUND WATER SPRINGS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE MEASURES TO ENSURE THAT THE WATER IS NOT CONVEYED THROUGH UTILITY TRENCHES, AND THE NATURAL FLOW PATH OF THE SPRING IS ALTERED AS LITTLE AS PRACTICABLE. THE PROJECT ENGINEER SHALL SUBMIT INFORMATION SUMMARIZING THE SITUATION TO THE CITY.

39. ANY INSPECTION BY THE CITY, COUNTY, STATE, FEDERAL AGENCY, OR PROJECT ENGINEER SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN COMPLIANCE WITH THE APPLICABLE PLANS CODES, REGULATIONS. STANDARDS, AND PROJECT CONTRACT DOCUMENTS.

40. SAWCUT STRAIGHT MATCH LINES WHERE EXISTING PAVEMENT MEETS NEW PAVEMENT. SAND AND SEAL JOINT (TYPICAL).

41. DUST SHALL BE CONTROLLED WITHIN THE DEVELOPMENT DURING CONSTRUCTION AND SHALL NOT BE PERMITTED TO DRIFT ONTO ADJACENT PROPERTIES.

42. CONTRACTOR SHALL WORK TO PRESERVE ALL TEMPORARY SURVEY CONTROL POINTS, TEMPORARY BENCHMARKS, TEMPORARY GRADE STAKES, AND OTHER REFERENCE POINTS FOR AS LONG AS THEY ARE NEEDED FOR CONSTRUCTION ACTIVITIES.

43. CONTRACTOR SHALL FOLLOW OSHA REQUIREMENTS.

44. ALL TRENCHES SHALL BE PROPERLY SHORED AND BRACED TO PREVENT CAVING.

45. NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT. ALL TRENCHES SHALL BE COVERED WITH STEEL PLATES OR FILLED IN AT NIGHT.

46. UNIDENTIFIED UTILITIES SHALL NOT BE DISRUPTED OR CUT UNTIL UTILITY COMPANY HAS APPROVED THE CUT OR DISRUPTION.

47. ALL FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER-THAN-ORIGINAL CONDITION.

48. NOTIFY THE UTILITY COMPANY IMMEDIATELY OF ALL UTILITIES EXPOSED. UTILITIES OR INTERFERING PORTIONS OF UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK.

49. WHERE TRENCH EXCAVATION REQUIRES REMOVAL OF PCC CURBS AND/OR SIDEWALKS, THE CURBS AND/OR SIDEWALKS SHALL BE SAWCUT AND REMOVED AT A TOOLED JOINT UNLESS OTHERWISE AUTHORIZED BY THE OWNER'S REPRESENTATIVE. THE SAWCUT LINES SHOWN ON THE DRAWINGS ARE SCHEMATIC AND NOT INTENDED TO SHOW THE EXACT ALIGNMENT OF SUCH CUTS.

50. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DOCUMENTS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO . NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DOCUMENTS AND IN FULL COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS AND CODES.

51. THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED DRAWINGS AND DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS AND DAMAGE TO ALL ITEMS THAT ARE TO REMAIN. ALL REPAIRS SHALL USE NEW MATERIAL. REPAIRS SHALL RESTORE THE DAMAGED ITEM TO THE PRE-EXISTING CONDITION OR BETTER. SUCH REPAIRS SHALL BE PERFORMED AT THE CONTRACTOR'S SOLE EXPENSE.

52. CONTRACTOR IS RESPONSIBLE FOR SITE JOB SAFETY, WHICH SHALL INCLUDE BUT NOT BE LIMITED TO THE INSTALLATION AND MAINTENANCE OF BARRIERS, FENCING, AND OTHER APPROPRIATE SAFETY ITEMS NECESSARY TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION AND CONSTRUCTION ACTIVITY.

53. DEBRIS AND TRASH SHALL NOT BE BURIED OR STOCKPILED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL CITY, STATE, AND FEDERAL LAWS AND REGULATIONS. THE CONTRACTOR SHALL MAINTAIN RECORDS TO DEMONSTRATE PROPER DISPOSAL ACTIVITIES, TO BE PROVIDED TO THE PROJECT ENGINEER UPON REQUEST.

54. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND APPROVALS FOR OFF SITE DISPOSAL FACILITIES AND SUPPLY A COPY OF APPROVALS TO THE PROJECT ENGINEER UPON

55. CONTRACTOR SHALL MONITOR THE HAULING OF DEBRIS TO INSURE THAT ALL SPILLAGE FROM TRUCKS IS PROMPTLY AND COMPLETELY REMOVED AND CLEANED UP.

56. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK. THE CONTRACTOR SHALL TAKE NECESSARY FIELD MEASUREMENTS AND OTHERWISE VERIFY ALL DIMENSIONS AND EXISTING CONSTRUCTION CONDITIONS INDICATED AND/OR SHOWN ON THE PLANS. SHOULD ANY ERROR OR INCONSISTENCY EXIST, THE CONTRACTOR SHALL NOT PROCEED WITH THE EFFECTED WORK UNTIL REPORTED TO THE PROJECT ENGINEER FOR CLARIFICATION OR CORRECTION.

57. CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF MAILBOXES WITH LOCAL POSTMASTER.

58. CONTRACTOR MUST DISCONNECT AND ABANDON ALL UTILITIES TO STRUCTURES THAT ARE BEING DEMOLISHED PER THE REQUIREMENTS OF THE PUBLIC UTILITY BEING ABANDONED.

59. CONTRACTOR TO LOCATE UNDERGROUND FUEL TANK AND ABANDON PER DEQ UNDERGROUND STORAGE TANK REQUIREMENTS, INCLUDING REMOVAL OF THE TANK AND REPLACEMENT WITH STRUCTURAL FILL.

NOTIFICATION

GENERAL - THE CONTRACTOR SHALL, AS A MINIMUM, COORDINATE THE PROPOSED CONSTRUCTION ACTIVITIES WITH THE OWNER AND THE LOCAL PUBLIC AGENCIES, UTILITIES AND COMPANIES DURING CONSTRUCTION TO AVOID DAMAGE AND TO PREVENT THE INTERRUPTION OF SERVICES AND UTILITIES TO RESIDENTS AND BUSINESSES:

ONE CALL LOCATE - OREGON UTILITIES NOTIFICATION CENTER (503) 246-6699

AS-BUILT DISCLAIMER:

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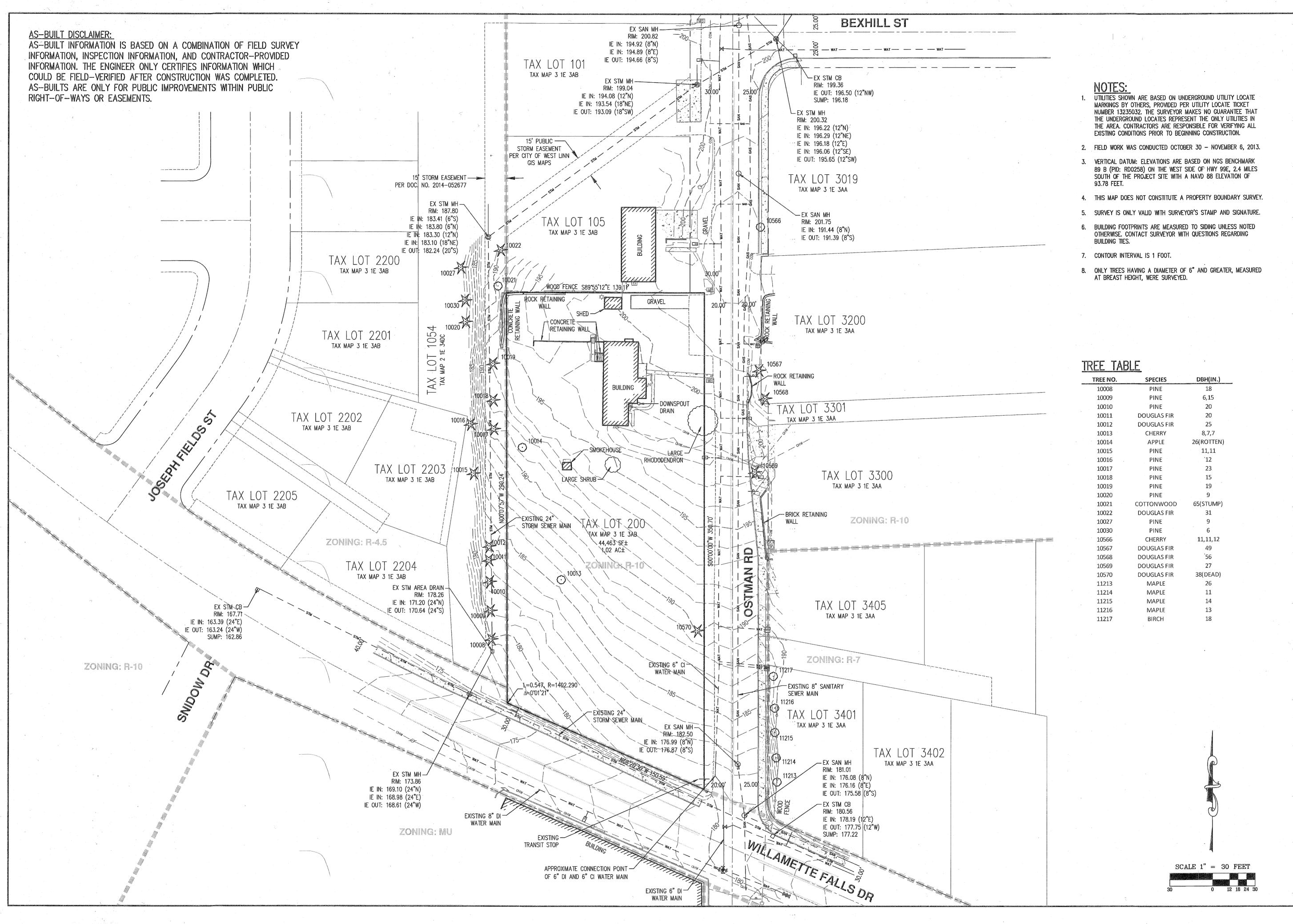
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DESIGNED BY: AS NOTED DATE: 2/9/2015

RENEWAL DATE: 6/30/15

JOB NUMBER 3745

SHEET C001



FORESTRY, LLC

SUITE 100
TUALATIN, OR 97062
PHONE: 503.563.6151
FAX: 503.563.6152
www.aks-eng.com
ENGINEERING

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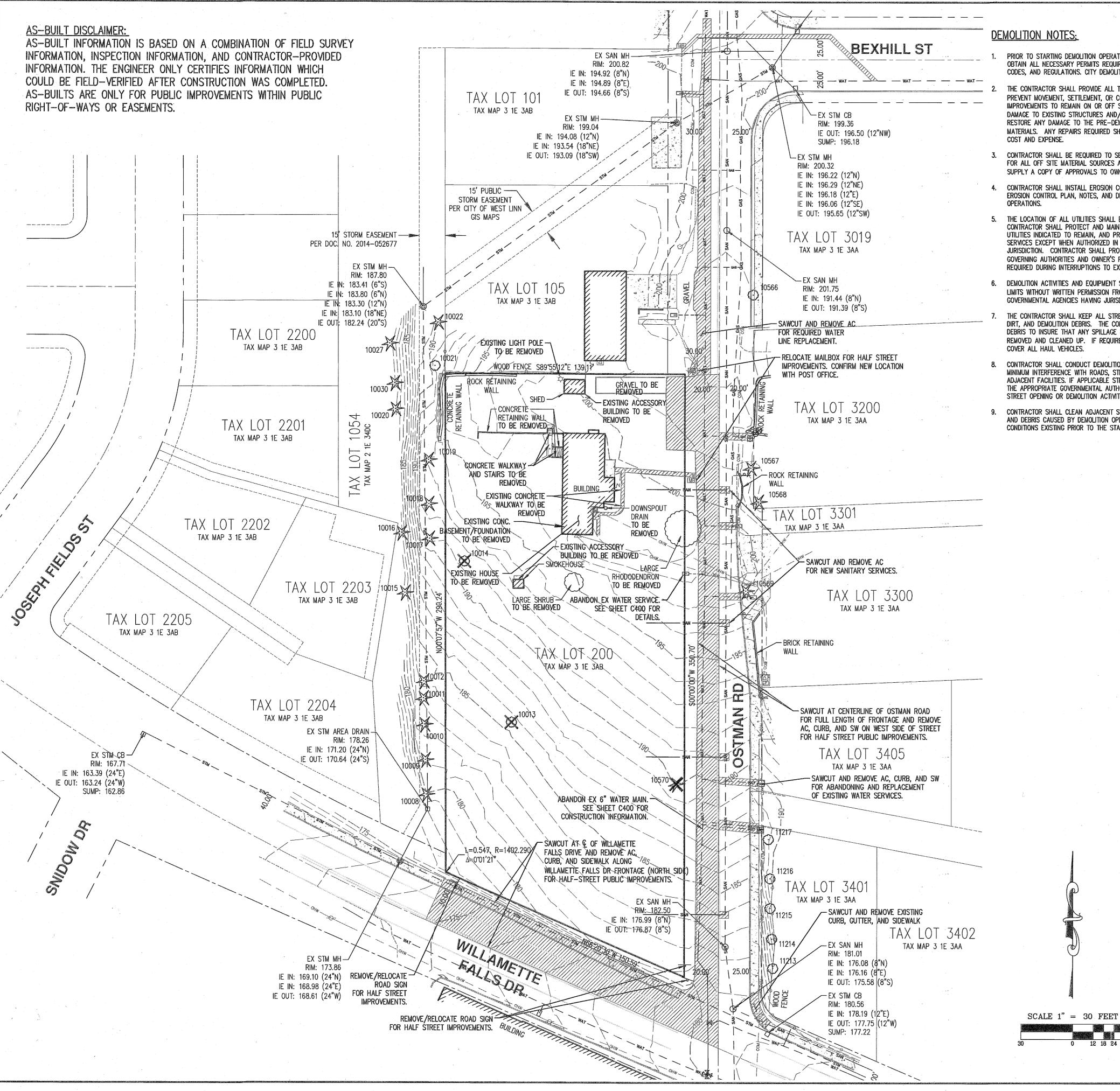
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DRAWN BY: JDR
CHECKED BY: MBH
SCALE: AS NOTED
DATE: 2/9/2015
REGISTERED
PROFESSIONAL
LAND SURVEYOR

OREGON
JULY 15, 2003
MONTGOMERY B. HURLEY
58542LS
RENEWS: 6/30/15

SENEWS: 6/30/15

JOB NUMBER 3745

SHEET **C002**



DEMOLITION NOTES:

- PRIOR TO STARTING DEMOLITION OPERATIONS, THE CONTRACTOR SHALL APPLY FOR AND OBTAIN ALL NECESSARY PERMITS REQUIRED BY FEDERAL, STATE, CITY, AND LOCAL LAWS, CODES, AND REGULATIONS. CITY DEMOLITION PERMIT SHALL BE REQUIRED.
- THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT. SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES AND/OR IMPROVEMENTS TO REMAIN ON OR OFF SITE. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING STRUCTURES AND/OR IMPROVEMENTS TO REMAIN AND SHALL RESTORE ANY DAMAGE TO THE PRE-DEMOLITION CONDITION OR BETTER USING NEW MATERIALS. ANY REPAIRS REQUIRED SHALL BE PERFORMED AT THE CONTRACTOR'S SOLE
- 3. CONTRACTOR SHALL BE REQUIRED TO SECURE ALL NECESSARY PERMITS AND APPROVALS FOR ALL OFF SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. CONTRACTOR SHALL SUPPLY A COPY OF APPROVALS TO OWNER'S REPRESENTATIVE PRIOR TO INITIATING WORK.
- CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES IN CONFORMANCE WITH THE EROSION CONTROL PLAN, NOTES, AND DETAILS PRIOR TO STARTING DEMOLITION
- 5. THE LOCATION OF ALL UTILITIES SHALL BE MARKED IN THE FIELD PRIOR TO DEMOLITION. CONTRACTOR SHALL PROTECT AND MAINTAIN IN A SAFE AND OPERABLE CONDITION ALL UTILITIES INDICATED TO REMAIN. AND PREVENT INTERRUPTION OF EXISTING UTILITY SERVICES EXCEPT WHEN AUTHORIZED IN WRITING BY THE AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES, ACCEPTABLE TO GOVERNING AUTHORITIES AND OWNER'S REPRESENTATIVE, FOR BUILDING(S) TO REMAIN AS REQUIRED DURING INTERRUPTIONS TO EXISTING UTILITY SERVICES.
- 6. DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE PROJECT LIMITS WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE AND/OR GOVERNMENTAL AGENCIES HAVING JURISDICTION IF APPLICABLE.
- THE CONTRACTOR SHALL KEEP ALL STREETS AND PUBLIC RIGHT-OF-WAYS CLEAN OF MUD. DIRT, AND DEMOLITION DEBRIS. THE CONTRACTOR SHALL MONITOR THE HAULING OF DEBRIS TO INSURE THAT ANY SPILLAGE FROM TRUCKS IS PROMPTLY AND COMPLETELY REMOVED AND CLEANED UP. IF REQUIRED AND/OR NECESSARY, THE CONTRACTOR SHALL COVER ALL HAUL VEHICLES.
- 8. CONTRACTOR SHALL CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. IF APPLICABLE STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY PRIOR TO THE COMMENCEMENT OF ANY STREET OPENING OR DEMOLITION ACTIVITIES IN THE RIGHT-OF-WAY.
- 9. CONTRACTOR SHALL CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITIONS EXISTING PRIOR TO THE START OF THE WORK.

- 10. DEBRIS SHALL NOT BE BURIED OR STOCKPILED ON THE PROPERTY. ALL DEMOLITION DEBRIS AND MATERIALS SHALL BE DISPOSED OF AT OFFSITE LOCATIONS IN ACCORDANCE WITH ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS, CODES, AND REGULATIONS. THE CONTRACTOR SHALL MAINTAIN RECORDS TO DEMONSTRATE PROPER DISPOSAL ACTIVITIES AND SHALL PROVIDE A COPY TO THE OWNER OR OWNER'S REPRESENTATIVE UPON REQUEST. CONTRACTOR SHALL COORDINATE AND PAY ALL COSTS INCLUDING DISPOSAL CHARGES.
- PAVEMENT SHALL BE SAW CUT IN STRAIGHT LINES, AND EXCEPT FOR EDGE OF BUTT JOINTS, SHALL EXTEND TO THE FULL DEPTH OF THE EXISTING PAVEMENT. THE SAWCUT LINES SHOWN ON THE DRAWINGS ARE SCHEMATIC AND NOT INTENDED TO SHOW THE EXACT ALIGNMENT OF SUCH CUTS.
- 12. CONTRACTOR SHALL CONFORM TO APPLICABLE REGULATORY PROCEDURES IF HAZARDOUS OR CONTAMINATED MATERIALS ARE DISCOVERED.
- CONTRACTOR IS RESPONSIBLE FOR JOB SAFETY AND SHALL PROVIDE, ERECT. AND MAINTAIN TEMPORARY BARRIERS, WARNING SIGNS, TRAFFIC CONES, AND PROTECTION AS NECESSARY DURING DEMOLITION ACTIVITIES.
- CONTRACTOR SHALL REMOVE ALL EXISTING STRUCTURES, FACILITIES, IMPROVEMENTS, ETC. AS SHOWN, UNLESS OTHERWISE DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL BACKFILL ALL EXCAVATION RESULTING FROM, OR INCIDENTAL TO, DEMOLITION ACTIVITIES. BACKFILL SHALL BE ACCOMPLISHED WITH APPROVED MATERIALS, AND SHALL BE PLACED AS COMPACTED ENGINEERED FILL AS REQUIRED TO SUPPORT NEW IMPROVEMENTS. BACKFILLING SHALL OCCUR IMMEDIATELY AFTER DEMOLITION ACTIVITIES UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE
- 16. DEMOLITION AREAS SHALL BE GRADED TO MATCH ADJACENT TERRAIN TO FORM A SMOOTH, CLEAN (FREE OF DEBRIS), FREE DRAINING SURFACE, UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR APPROVED BY THE OWNER'S REPRESENTATIVE.
- 17. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR RELOCATION AND TERMINATION OF EXISTING UTILITIES AS NECESSARY. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND PAY ALL COSTS FOR EXCAVATION, BACKFILL, CONDUIT, WIRING, AND APPURTENANCES REQUIRED TO COMPLETE THE WORK. THIS WORK INCLUDES ALL EXISTING DRY UTILITIES TO THE EXISTING HOUSE AND THE EXISTING BUILDINGS ADJACENT TO
- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS CONTAINED IN THE GRADING AND DEMOLITION PERMIT ISSUED BY THE CITY OF WEST LINN BUILDING DEPARTMENT.
- CONTRACTOR SHALL LOCATE EXISTING SANITARY SEWER SERVICE TO THE HOUSE DURING DEMOLITION AND NOTIFY THE PROJECT ENGINEER AND CITY INSPECTOR. CONTRACTOR SHALL ABANDON THE SEWER SERVICE PIPING PER CITY OF WEST LINN REQUIREMENTS

TREE TABLE

VO.	SPECIES	DBH(IN.)
)8	PINE	18
)9	PINE	6,15
LÒ	PINE	20
l1 DO	UGLAS FIR	20
.2 DO	UGLAS FIR	25
13	CHERRY	8,7,7
L 4	APPLE	26(ROTTEN)
L5	PINE	11,11
L 6	PINE	12
17	PINE	23
18	PINE	. 15
19	PINE	19
20	PINE	9
21 COT	TONWOOD	65(STUMP)
22 DO	UGLAS FIR	31
27	PINE	9
80	PINE	6
66	CHERRY	11,11,12
57 DO	UGLAS FIR	49
8 DO	UGLAS FIR	56
59 DO	UGLAS FIR	27
0 DO	UGLAS FIR	38(DEAD)
.3	MAPLE	26
.4	MAPLE	11
.5	MAPLE	14
.6	MAPLE	13
.7	BIRCH	18
	08 09 00 11 DO 22 DO 33 44 55 66 77 88 99 00 11 COT 12 DO 17 19 10 10 10 10 10 10 10 10 10 10 10 10 10	PINE PINE PINE DOUGLAS FIR DOUGLAS FIR CHERRY APPLE PINE PINE PINE PINE PINE PINE PINE PIN

* TREE TO BE REMOVED

LEGEND

EXISTING GROUND CONTOUR (1 FT)

EXISTING GROUND CONTOUR (5 FT)

EXISTING TREE TO BE REMOVED

EXISTING TREE TO REMAIN

A.C. / CONCRETE TO BE REMOVED

XX

____ 101 ____

SHEET

ZO

DESIGNED BY: CHECKED BY:

CC

AS NOTED DATE: 2/9/2015 **58542PE**

RENEWAL DATE: 6/30/15 REVISIONS

JOB NUMBER 3745

C030

ODEQ EROSION AND SEDIMENT CONTROL PLAN (ESCP)

TAX LOT 101 TAX LOT 2201 TAX LOT 3402

PLANNING / ENGINEERING / SURVEYING FIRM

AKS ENGINEERING & FORESTRY, LLC. CONTACT: DAVID NICHOLS 12965 SW HERMAN ROAD, SUITE 100 TUALATIN, OR 97062 PH: 503-563-6151 FAX: 503-563-6152

APPLICANT/OWNER

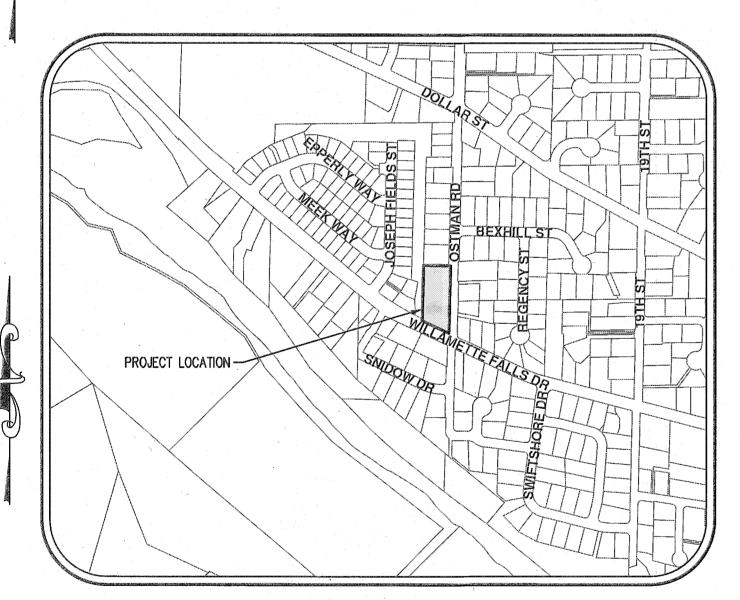
RENAISSANCE HOMES 16771 BOONES FERRY ROAD LAKE OSWEGO, OR 97035

SHEET INDEX

CO50 - EROSION CONTROL COVER SHEET CO51 - PHASE 1 EROSION AND SEDIMENT CONTROL PLAN CO52 - PHASE 2 GRADING AND EROSION CONTROL PLAN

CO53 - EROSION CONTROL NOTES AND DETAILS

SITE MAP NOT TO SCALE



VICINITY MAP SCALE: 1"=500"

ATTENTION EXCAVATORS:

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS BUT NOT MORE THAN TEN BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.



NARRATIVE DESCRIPTIONS

EXISTING SITE CONDITIONS ONE SINGLE FAMILY HOUSE WITH DETACHED SHED OUTBUILDING.

DEVELOPED CONDITIONS * RESIDENTIAL SUBDIVISION BUILDING LOTS.

NATURE OF CONSTRUCTION ACTIVITY AND TIMETABLE FOR MAJOR ACTIVITIES

- * CLEARING (SEPT, 2014 JAN, 2015)
- * MASS GRADING [EXCAVATION AND FILL] (SEPT, 2014 NOV, 2014)
- * INSTALLATION OF UTILITIES (SEPT, 2014 JAN, 2015)
- * STREET CONSTRUCTION (SEPT. 2014 JAN. 2015) * FINAL STABILIZATION (JAN, 2015)

TOTAL SITE AREA = 1.02 ACRES±

TOTAL DISTURBED AREA = $60,566 \text{ SF} \pm = 1.39 \text{ ACRES} \pm$

SITE SOIL CLASSIFICATION:

53C LATOURELL LOAM, 8% TO 15 % SLOPES 88A WILLAMETTE SILT LOAM, WET, 0% - 3% SLOPES

<u>RECEIVING WATER BODIES:</u>

PUBLIC STORM DRAINAGE SYSTEM.

<u>INSPECTION FREQUENCY:</u>

 ONCE EVERY TWO WEEKS ON INACTIVE SITES. DAILY WHEN STORMWATER RUNOFF IS OCCURRING.

PROJECT LOCATION:

1770 OSTMAN ROAD, WEST LINN, OR 97068 LAT: N45.344722* LONG: W122.667222*

PROPERTY DESCRIPTION:

TAX LOT 200, CLACKAMAS COUNTY ASSESSOR'S MAP 3 1E 03AB. LOCATED IN THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 3, TOWNSHIP 3 SOUTH, RANGE 1 EAST, WILLAMETTE MERIDIAN, CITY OF WEST LINN, CLACKAMAS COUNTY, OREGON

PERMITTEE'S SITE INSPECTOR: NATHAN GARITY

COMPANY/AGENCY: AKS ENGINEERING & FORESTRY, LLC PHONE: 503-563-6151 (OFFICE) 971-275-3920 (MOBILE)

FAX: 503-563-6151 E-MAIL: NATHANGOAKS-ENG.COM DESCRIPTION OF EXPERIENCE:

INSPECTING EROSION AND SEDIMENT CONTROLS. THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200CN PERMIT. THIS ESCP AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLYANCE ENTERENTE IN STOUCH OF PERMAPT YEAR REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200CN PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.

STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES:

ODEQ STANDARD EROSION AND SEDIMENT CONTROL PLAN NOTES . HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS. (SCHEDULE A.8.C.I.(3)) 2. ALL PERMIT REGISTRANTS MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTRÓL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT. (SCHEDULE A.8.A)

3. RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS,

STATE, AND FEDERAL EROSION AND SEDIMENT CONTROL REGULATIONS. (SCHEDULE A.8.C.II.(1)(C)) SPECIFIC CONDITIONS. (SCHEDULE A.12.C.III)

BECOMING A SOURCE OF EROSION. (SCHEDULE A.8.C.II.(1)(D)) 7. IDENTIFY, MARK, AND PROTECT (BY FENCING OFF OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION MPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO E PRESERVED. IDENTIFY

BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS). AND OTHER AREAS TO BE PRESERVED. ESPECIALLY IN PERIMETER AREAS. (SCHEDULE A.8.C.I.(1)&(2))

VEGETATION IS DISTURBED AND MUST REMAIN IN PLACE AND BE MAINTAINED. REPAIRED. AND PROMPTLY IMPLEMENTED FOLLOWING PROCEDURES ESTABLISHED FOR THE DURATION OF CONSTRUCTION, INCLUDING PROTECTION FOR ACTIVE STORM DRAIN INLETS AND CATCH BASINS AND APPROPRIATE NON-STORMWATER POLLUTION CONTROLS. (SCHEDULE

11. APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES AND FOR ALL ROADWAYS INCLUDING GRAVEL ROADWAYS. (SCHEDULE A.8.C.I.(7)) 12. ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS, (SCHEDULE

BMPS MUST BE IN PLACE PRIOR TO LAND-DISTURBING ACTIVITIES. (SCHEDULE A.7.D.II.(O AND A.8.C.I(4))

FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, LEFTOVER PAINTS, SOLVENTS, AND GLUES FROM CONSTRUCTION OPERATIONS. (SCHEDULE A.7.E.I.(2))

SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN. AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN PLAN TO MANUFACTURE'S SPECIFICATIONS. (SCHEDULE A.9.D)

19. TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE

20. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND DURING WET WEATHER, (SCHEDULE A.7.A.I) 21. SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE

HEIGHT AND BEFORE FENCE REMOVAL. (SCHEDULE A.9.C.I) 22. OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT. AND BEFORE BMP REMOVAL. (SCHEDULE A.9.C.II)

23. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENT BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT. (SCHEDULE A.9.C.III & IV) 24. WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE

DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STEAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DIVISION OF STATE LANDS REQUIRED TIMEFRAME. (SCHEDULE A.9.B.I) 25. THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS. (SCHEDULE A.9.B.II) 26. THE ENTIRE SITE MUST BE TEMPORARILY STABILIZED USING VEGETATION OR A HEAVY MULCH LAYER, TEMPORARY

SEDDING, OR OTHER METHODS SHOULD ALL CONSTRUCTION ACTIVITIES CEASE FOR 30 DAYS OR MORE. (SCHEDULE

27. PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SCHEDULE A.7.F.II) 28. THE DESIGNATED EROSION AND SEDIMENT CONTROL INSPECTOR MUST PERFORM DAILY INSPECTIONS OF THE BMPS AND DISCHARGE OUTFALLS WHEN RAINFALL AND RUNOFF OCCUR. RECORD THE INSPECTIONS AND OBSERVATIONS IN A

LOG THAT IS ON SITE, (SCHEDULE B.1.B(1)) 29. ALL ESCP CONTROLS AND PRACTICES MUST BE INSPECTED VISUALLY ONCE TO ENSURE THAT BMPS ARE IN WORKING ORDER PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY AND MUST BE INSPECTED VISUALLY ONCE EVERY TWO (2) WEEKS DURING INACTIVE PERIODS GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS. (SCHEDULE B.1.B.(2) & (3))

30. IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION DURING PERIOD IN WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER. (SCHEDULE

31. DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. IDENTIFY THE TYPE OF VEGETATION SEED MIX USED. (SCHEDULE A.7.B.III) 32. PROVIDE PERMANENT EROSION CONTROL MEASURES ON ALL EXPOSED AREAS. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AS EXPOSED AREAS BECOME STABILIZED, UNLESS DOING SO CONFLICTS WITH LOCAL REQUIREMENTS PROPERLY DISPOSE OF CONSTRUCTION MATERIALS AND WASTE, INCLUDING SEDIMENT RETAINED BE TEMPORARY BMPS. (SCHEDULE A.8.C.III)

AS-BUILT DISCLAIMER:

AS-BUILT INFORMATION IS BASED ON A COMBINATION OF FIELD SURVEY INFORMATION, INSPECTION INFORMATION, AND CONTRACTOR-PROVIDED INFORMATION. THE ENGINEER ONLY CERTIFIES INFORMATION WHICH COULD BE FIELD-VERIFIED AFTER CONSTRUCTION WAS COMPLETED. AS-BUILTS ARE ONLY FOR PUBLIC IMPROVEMENTS WITHIN PUBLIC RIGHT-OF-WAYS OR EASEMENTS.

BMP MATRIX FOR CONSTRUCTION PHASES

EFER TO DEO GUIDANCE	YEAR:	14	14	14	14	14	14	14	14	15		15	15	15	15	15	15		1:
BMPs	MONTH:	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	1
PIPE SLOPE DRAINS									·										
ENERGY DISSIPATERS						-	-												
TEMPORARY DIVERSION DIKES											-								
CHECK DAMS																			
TEMPORARY SEEDING AND PLANTING	-																		
PERMANENT SEEDING AND PLANTING							Х	Х	Х										
MYCORRHIHIZAE/BIOFERTILIZERS																	9		
MULCHES (SPECIFY TYPE)					· · ·														
COMPOST BLANKETS																			
COMPOST SOCKS																			
COMPOST BERM	· .																		
SOIL TACKIFIERS																			
SODDING VEGETATIVE BUFFER STRIPS																			r
SEDIMENT FENCING	李孝				Х	Х	Х	Х	Х										F
EROSION CONTROL BLANKETS AND MATS- AMERICAN GREEN S150))					
EARTH DIKES (STABILIZED)																			T
DRAINAGE SWALES	-				Х	Х	Х	Х	Х										Γ
ROCK OUTLET PROTECTION																			T
SEDIMENT TRAP		·																	ŀ
STORM DRAIN INLET PROTECTION	本本				Х	Х	Х	Х	Х										
TEMPORARY OR PERMANENT SEDIMENTATION BASINS																			T
UNPAVED ROADS GRAVELED OR OTHER BMP ON ROAD																			
DEWATERING (TREATMENT LOCATION, SCHEMATIC, AND SAMPLING PLAN REQUIRED)																			
PAVING OPERATION CONTROLS							Х	Х								:			Ī
CONCRETE TRUCK WASHOUT					Х	Х	Х	Х											Ī
GRAVEL CONSTRUCTION ENTRANCE	**				Х	х	Х	Х											
PLASTIC SHEETING							Х	Χ	Χ										T
RAIN GARDEN					Х	Х	Χ	Х	X		-								T

	INSPECTION	FREQUENCY
	SITE CONDITION	MINIMUM FREQUENCY
1.	ACTIVE PERIOD	DAILY WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOWMELT, IS OCCURRING.
		AT LEAST ONCE EVERY TWO (2) WEEKS REGARDLESS OF WETHER STORMWATER RUNOFF IS OCCURRING.
2.	PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY.	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.
3.	INACTIVE PERIODS GREATER THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS.	ONCE EVERY TWO (2) WEEKS.
4.	PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER.	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.

* HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION

AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS. * ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-CN PERMIT REQUIREMENTS.

* INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-CN PERMIT REQUIREMENTS. * REVISIONS TO APPROVED ESC PLAN OR INSPECTOR MUST BE SUBMITTED TO DEQ OR AGENT IN ACCORDANCE WITH CURRENT 1200-C

RATIONALE STATEMENT

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMP'S WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS, AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN WILL BE SUBMITTED.

INITIAL MH

(1)

DESIGNED BY DATE: 2/9/2015 58542PE 7

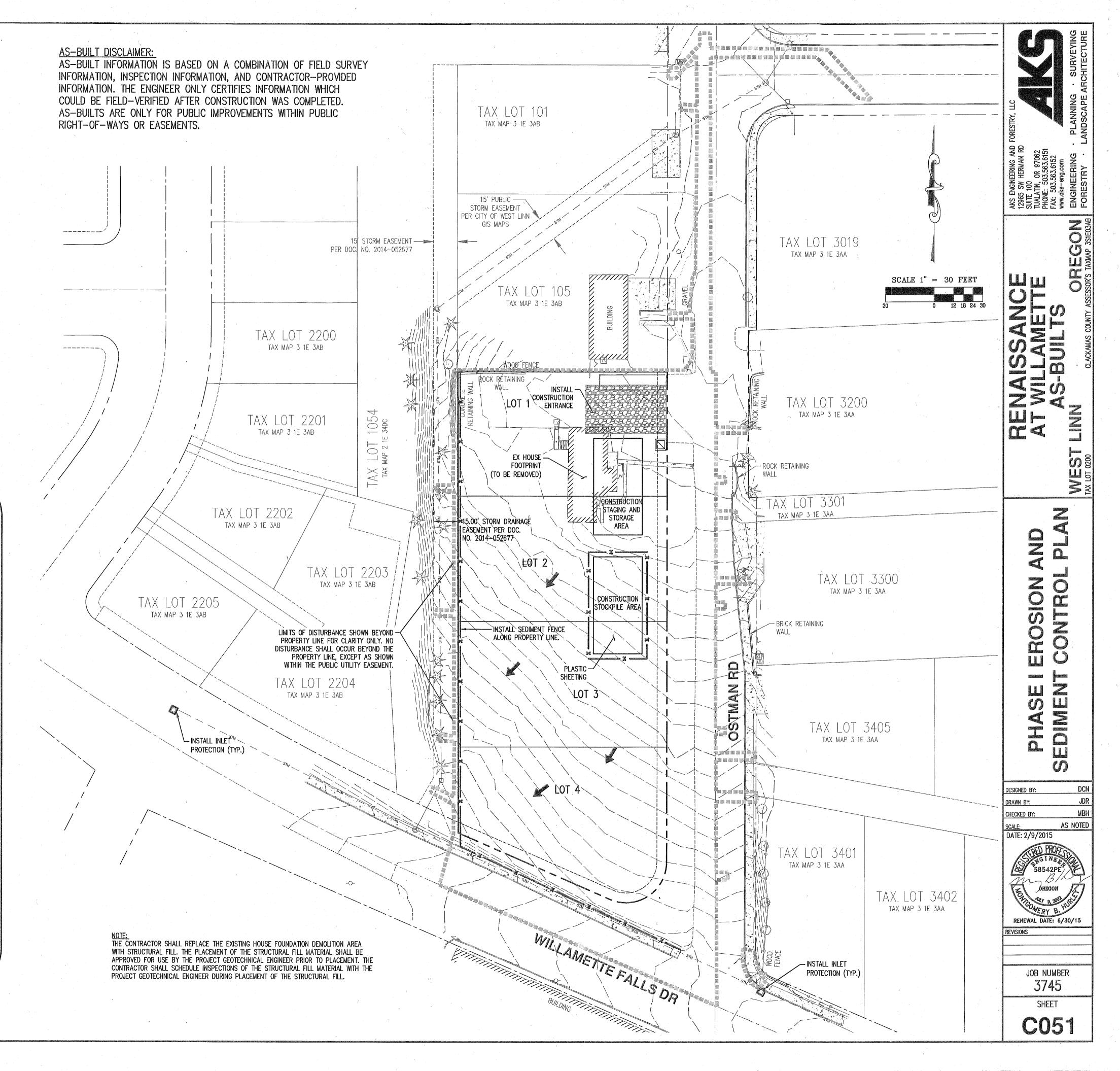
RENEWAL DATE: 6/30/15

JOB NUMBER 3745

SHEET

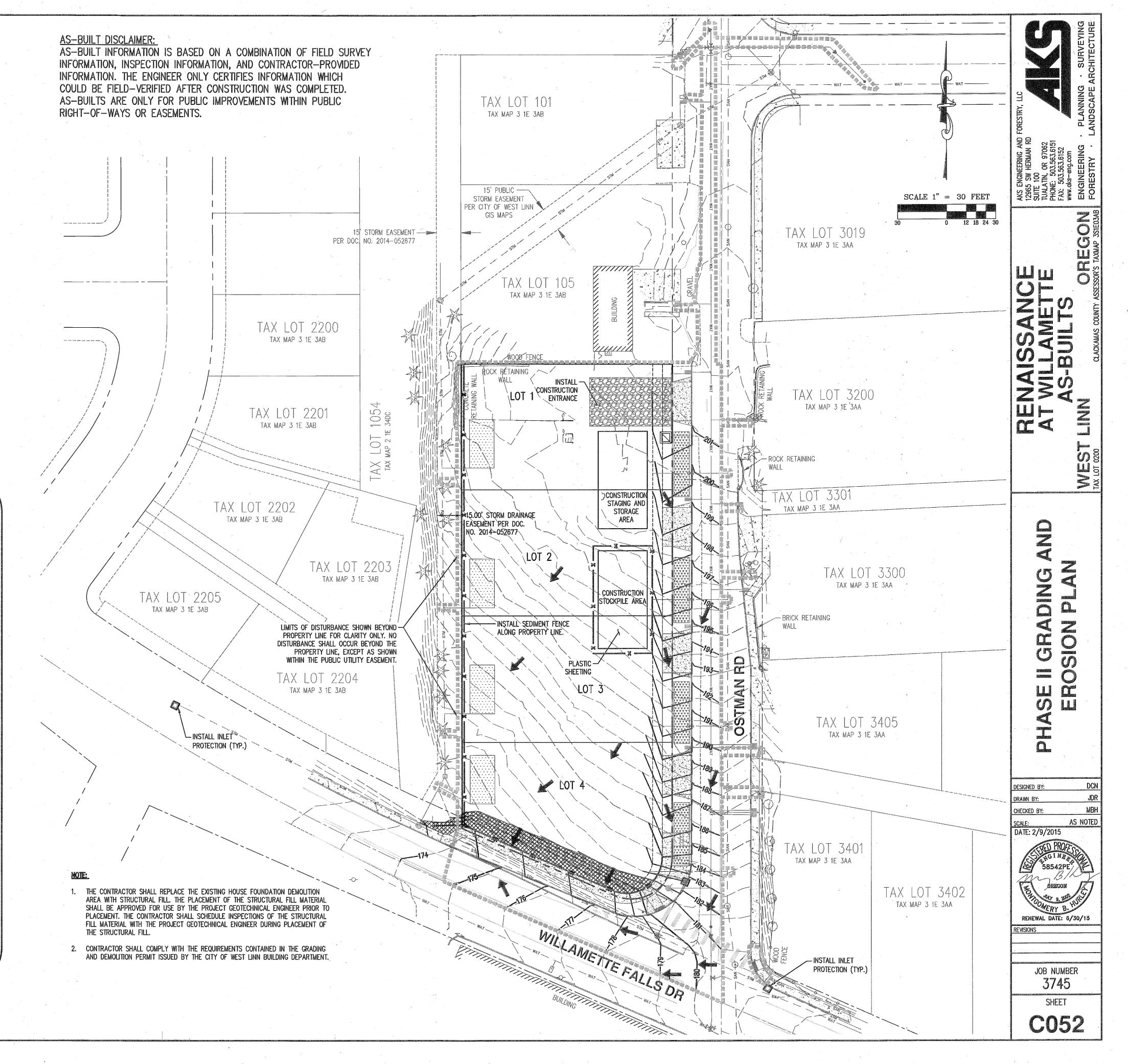
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	M	\sim	STORM SEWER CATCH BASIN		
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FIRE HYDRANT	Ω		STORM SEWER MANHOLE		
WATER BLOWOFF	Ŷ	1	GAS METER		
WATER METER		23.2	GAS VALVE	KDI -	
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DOUBLE CHECK VALVE	×		POWER POLE	-0-	
AIR RELEASE VALVE	ゟ゚	7	POWER VAULT	P	P
SANITARY SEWER CLEAN OUT	0	•	POWER JUNCTION BOX		
SANITARY SEWER MANHOLE	O		POWER PEDESTAL COMMUNICATIONS VAULT		(<u>~</u>
Sign Street light	-0		COMMUNICATIONS JUNCTION BOX		
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MAILDOX	rwoi	[MD]	SOMMOTIONS MOLIN	<u>.</u>	***
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GRAVEL EDGE		······································	······································		
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OVERHEAD WIRE		OHW	OHW		OHW
COMMUNICATIONS LINE		СОМ	— СОМ СОМ	······································	COM —
FIBER OPTIC LINE		CFO	— CFO — — — —	CFO	CFO
GAS LINE	_	— GAS — — —	— GAS — GAS —	GAS ———	— GAS ———
STORM SEWER LINE		— STM — — —	— STM — STM —		ราพ



AKS DRAWING FILE: 3745 CO51 GRADING AND ESC REVI.DWG | LAYOUT: CO51

			GEND		
	EXISTING	PROPOSED		EXISTING	PROPOSED
DECIDUOUS TREE	\odot	\odot	STORM SEWER CLEAN OUT	0	•
CONIFEROUS TREE	M	M	STORM SEWER CATCH BASIN		2
		N	STORM SEWER AREA DRAIN		
FIRE HYDRANT	Ω	B	STORM SEWER MANHOLE	(i)	
WATER BLOWOFF	?	1	GAS METER	©	
WATER METER		• • • • • • • • • • • • • • • • • • •	GAS VALVE GUY WIRE ANCHOR		
WATER VALVE	M M	P	POWER POLE		·
DOUBLE CHECK VALVE			POWER VAULT	P	E
AIR RELEASE VALVE SANITARY SEWER CLEAN (ダ OUT o	• •	POWER JUNCTION BOX		
SANITARY SEWER MANHOL			POWER PEDESTAL		
SIGN	-o-		COMMUNICATIONS VAULT	C	[C]
STREET LIGHT	X X	\$	COMMUNICATIONS JUNCTION BOX	\triangle	<u> </u>
MAILBOX	(M8)	[MB]	COMMUNICATIONS RISER	· · · · · · · · · · · · · · · · · · ·	
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GRAVEL EDGE		<u></u>			
POWER LINE		PWR	PWR PWR		PWR
OVERHEAD WIRE		CHW			OHW
COMMUNICATIONS LINE		— сом — — —	— сом — сом —		cox
FIBER OPTIC LINE		CF0	— CFO — — — — —	OFO	CFO
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STORM SEWER LINE			— STM — STM —		5TM



AKS DRAWING FILE: 3745 C051 GRADING AND ESC REVI.DWG | LAYOUT: C052

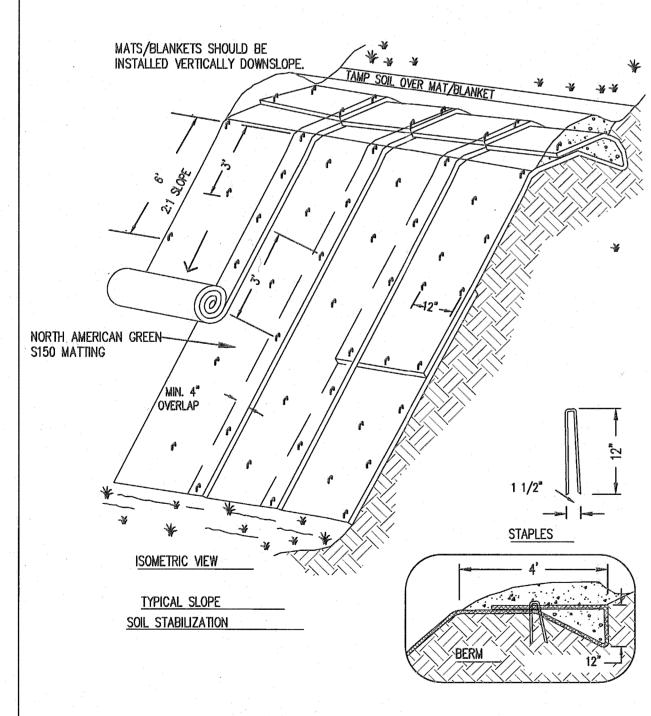
COVERING MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10' GRID SPACING IN ALL DIRECTIONS

BARRIER SHALL CONSIST OF SOIL BERM, SILT FENCE, STRAW WATTLE, GRASS LINED DITCH, SANDBAGS, OR OTHER APPROVED MATERIAL

STOCKPILE(S) MUST BE LOCATED IN AREAS THAT WILL NOT IMPOUND OR BLOCK STORMWATER RUNOFF ALL SEAMS SHALL BE TAPED OR WEIGHTED DOWN FOR FULL LENGTH.

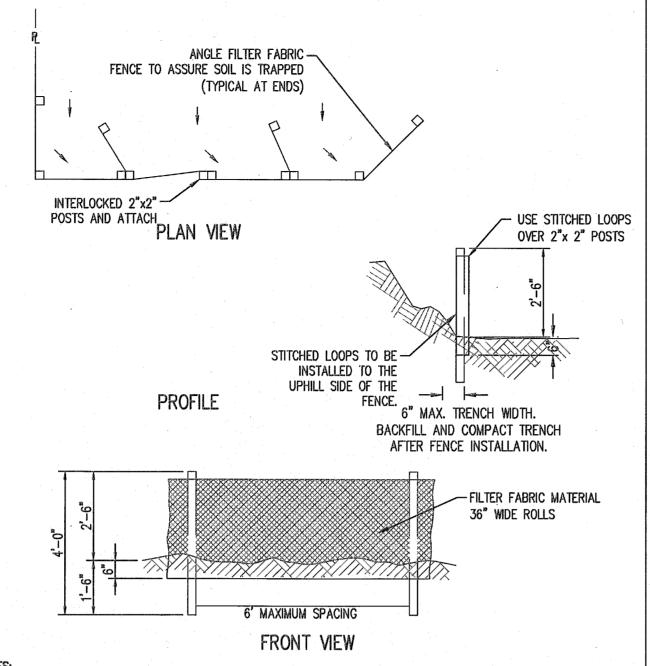
PLASTIC SHEETING REQUIRED FOR ALL TEMPORARY STOCKPILED MATERIAL

PLASTIC SHEETING



SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL

LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.



BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE. 2. 2"X 2" FIR. PINE OR STEEL FENCE POSTS. POSTS TO BE INSTALLED ON UPHILL SIDE OF SLOPE.

CLEAN PIT RUN OR 4"- 6" CLEAN ROCK

OUT OF ANY MEASURES USED TO TRAP SEDIMENT.

FILTERING SYSTEM.

SUBGRADE REINFORCEMENT

GEOTEXTILE, AS REQUIRED

GRAVEL CONSTRUCTION

THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

SEDIMENT BARRIERS SHALL BE MAINTAINED UNTIL UP-SLOPE AREA IS PERMANENTLY STABILIZED AT NO TIME SHALL MORE THAN 10 INCHES OF SEDIMENT BE ALLOWED TO ACCUMULATE BEHIND SEDIMENT FENCES. NEW SEDIMENT BARRIERS SHALL BE INSTALLED UPHILL AS REQUIRED TO CONTROL SEDIMENT TRANSPORT. SEDIMENT FENCE MUST BE ADEQUATELY SUPPORTED AS REQUIRED TO CONTROL SEDIMENT TRANSPORT. FENCE SHALL NOT BE STAPLED TO EXISTING TREES.

SEDIMENT FENCE SPECS: SEDIMENT FENCE SHALL BE CONSTRUCTED OF CONTINUOUS FILTER FABRIC TO MINIMIZE USE OF JOINTS. WHEN A JOINT IS REQUIRED, FABRIC SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-INCH OVERLAP AND BOTH ENDS SECURELY FASTENED TO A POST.

SEDIMENT FENCE

*UNLESS OTHERWISE SHOWN ON APPROVED DRAWINGS.

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF

SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN

WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE

WHERE RUNOFF CONTAINING SEDIMENT LADEN WATER IS LEAVING THE SITE VIA THE CONSTRUCTION

CONSTRUCTION ENTRANCE

ENTRANCE, OTHER MEASURES SHALL BE IMPLEMENTED TO DIVERT RUNOFF THROUGH AN APPROVED

PRE-CONSTRUCTION, CLEARING, AND **DEMOLITION NOTES:**

 ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

2. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE OR OTHER APPROVED

3. SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO

BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES.

AS-BUILT INFORMATION IS BASED ON A COMBINATION OF FIELD SURVEY INFORMATION, INSPECTION INFORMATION, AND CONTRACTOR-PROVIDED INFORMATION. THE ENGINEER ONLY CERTIFIES INFORMATION WHICH COULD BE FIELD-VERIFIED AFTER CONSTRUCTION WAS COMPLETED

ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.

4. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING, AND VACUUMING, MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

5. RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO

AS-BUILT DISCLAIMER:

AS-BUILTS ARE ONLY FOR PUBLIC IMPROVEMENTS WITHIN PUBLIC RIGHT-OF-WAYS OR EASEMENTS.

EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

2. ALL "SEDIMENT BARRIERS (TO BE INSTALLED AFTER GRADING)" SHALL BE INSTALLED IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINISHED GRADE AS SHOWN ON THESE PLANS.

3. INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.

4. LONG TERM SLOPE STABILIZATION MEASURES SHALL BE IN PLACE OVER AREAS WITH A SLOPE MORE THAN 5:1

OTHER MISCELLANEOUS BMP NOTES:

TO PREVENT ILLICIT CONNECTION AND ILLEGAL DISCHARGE:

1. INSPECT SITE BEFORE BEGINNING THE JOB FOR EVIDENCE OF ILLICIT CONNECTIONS OR ILLEGAL DUMPING OR DISCHARGES.

2. INSPECT SITE REGULARLY DURING PROJECT EXECUTION FOR EVIDENCE OF ILLICIT CONNECTIONS OR ILLEGAL DUMPING OR DISCHARGES.

3. OBSERVE SITE PERIMETER FOR EVIDENCE OR POTENTIAL OF ILLICITLY DISCHARGED OR ILLEGALLY DUMPED MATERIAL WHICH MAY ENTER THE JOB

4. IDENTIFICATION OF ILLICIT CONNECTIONS AND ILLEGAL DUMPING OR DISCHARGES:

A. SOLIDS: LOOK FOR DEBRIS. OR RUBBISH PILES. SOLID WASTE DUMPING OFTEN OCCURS ON ROADWAYS WITH LIGHT TRAFFIC LOADS OR IN AREAS NOT EASILY VISIBLE FROM THE TRAVELED WAY.

1. VISIBLE SIGNS OF STAINING OR UNUSUAL COLORS TO THE PAVEMENT OR SURROUNDING ADJACENT SOILS. 2. DISCOLORATION OR OILY SUBSTANCES IN THE WATER OR STAINS AND RESIDUES DETAINED WITH DITCHES. CHANNELS OR DRAINAGE BOXES.

3. PUNGENT ODORS COMING FROM THE DRAINAGE SYSTEMS. 4. ABNORMAL WATER FLOW DURING THE DRY WEATHER SEASON.

5. URBAN AREAS — EVIDENCE OF ILLICIT CONNECTIONS OR ILLEGAL DISCHARGES IS TYPICALLY DETECTED AT THE STORM DRAIN OUTFALL LOCATIONS OR AT THE MANHOLES. SIGNS OF AN ILLICIT CONNECTION OR ILLEGAL DISCHARGE

* - ABNORMAL WATER FLOW DURING THE DRY WEATHER SEASON

* - UNUSUAL FLOWS IN SUB-DRAIN SYSTEMS USED FOR DEWATERING. * - PUNGENT ODORS COMING FROM THE DRAINAGE SYSTEMS.

* - DISCOLORATION OR OILY SUBSTANCES IN THE WATER OR STAINS AND RESIDUES DETAINED WITHIN DITCHES.

* - EXCESSIVE SEDIMENT DEPOSITS, PARTICULARLY ADJACENT TO OR NEAR ACTIVE OFF-SITE CONSTRUCTION.

5. NOTIFY THE PROJECT SUPERINTENDENT OF ANY ILLICIT CONNECTIONS, DUMPINGS, OR DISCHARGES AT THE TIME OF DISCOVERY.

6. VEHICLES AND EQUIPMENT SHOULD BE WASHED OFF SITE AT A CONTROLLED WASH FACILITY WHEN AT ALL POSSIBLE. 7. USE "DRY CLEANING METHODS" SUCH AS WIPING DOWN WHENEVER POSSIBLE RATHER THAN WATER WASHING VEHICLES ON SITE.

8. IF CLEANING MUST BE CONDUCTED ON-SITE, IT SHALL BE CONDUCTED IN A DEDICATED AREA WITH THE FOLLOWING CHARACTERISTICS:

* - LOCATED AWAY FROM THE STORM DRAIN INLETS, DRAINAGE FACILITIES, OR WATERCOURSES.

* - PAVED WITH CONCRETE OR ASPHALT, OR STABILIZED WITH AN AGGREGATE BASE.

* - BERMED TO CONTAIN WASH WATERS AND TO PREVENT RUN-ON AND RUNOFF. * - CONFIGURED WASH AREA WITH A SUMP TO ALLOW COLLECTION AND DISPOSAL OF WASH WATER.

* - DISCHARGE WASH WATER TO A SANITARY OR PROCESS WASTE SEWER (WHERE PERMITTED), OR TO A DEAD END SUMP. WASH

WATERS SHALL NOT BE DISCHARGED TO STORM DRAINS OR WATERCOURSES. * - USED ONLY WHEN NECESSARY.

9. WHEN CLEANING VEHICLES OR EQUIPMENT WITH WATER:

* - USE AS LITTLE WATER AS POSSIBLE. CONSIDER USING A HIGH PRESSURE SPRAYER AND USE THE POSITIVE SHUTOFF VALVE.

* - DO NOT USE SOLVENTS OR DETERGENTS TO CLEAN VEHICLES OR EQUIPMENT ON SITE.

* - DO NOT USE STEAM CLEANING ON SITE.

10. INSPECT AND CLEAN WORK AREAS REGULARLY TO LIMIT WIND BLOWN DEBRIS AND POLLUTANTS TRANSPORTED BY STORMWATER.

TO REUSE AND RECYCLE CONSTRUCTION WASTES:

1. USE TRENCH SPOILS AND CUT AREA SOIL FOR FILL. UNSUITABLE AND EXCESS MATERIAL SHALL BE HAULED OFF SITE TO AN APPROVED LOCATION, IMPORTED FILL MATERIAL SHALL BE APPROVED BY THE PROJECT'S GEOTECHNICAL ENGINEER.

GRADING, STREET, AND UTILITY EROSION AND SEDIMENT CONSTRUCTION NOTES:

1. LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SLOPE MATTING.

2. TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.

3. STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. DURING "WET WEATHER" PERIODS, STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.

4. EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.

5. AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.

6. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

7. ACTIVE INLETS TO STORM WATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.

8. SATURATED MATERIALS THAT ARE HAULED OFF-SITE MUST BE TRANSPORTED IN WATER-TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT-LADEN WATER.

9. AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN-OFF THAT CAN ENTER THE STORM WATER SYSTEM. IF THE CONCRETE WASH-OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50' FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERMS OR TEMPORARY SETTLING PITS MAY BE REQUIRED. THE WASH-OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF THE CAPACITY.

10. SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORMWATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.

11. AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN--OFF INTO THE STORMWATER SYSTEM.

12. USE BMPs SUCH AS INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.

13. COVER CATCH BASINS, MANHOLES, AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACK COAT, ETC. TO PREVENT INTRODUCING THESE MATERIALS TO THE STORM WATER SYSTEM.

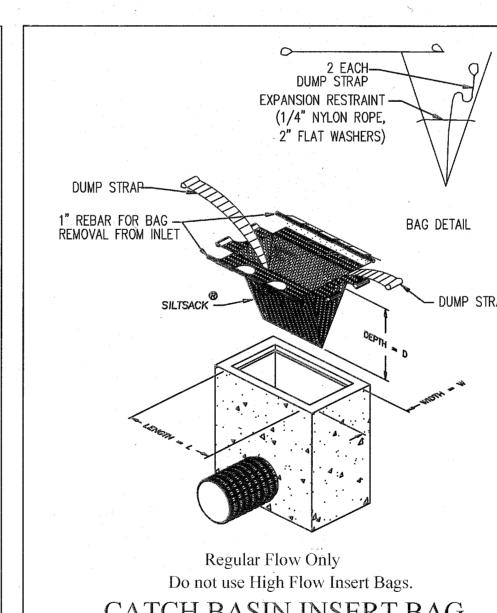
2 EACH— DUMP STRAP EXPANSION RESTRAINT (1/4" NYLON ROPE, 2" FLAT WASHERS) DUMP STRAP-1" REBAR FOR BAG BAG DETAIL Regular Flow Only

Do not use High Flow Insert Bags. CATCH BASIN INSERT BAG

1. RECESSED CURB INLET CATCH BASINS MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS. SIZE OF FILTER FABRIC INLET SACKS TO BE DETERMINED BY MANUFACTURER.

INLET PROTECTION DETAIL

APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS. STAKING OR STAPLING LAYOUT PER MANUFACTURERS SPECIFICATIONS. SLOPE MATTING



O

DESIGNED BY: RAWN BY: HECKED BY:

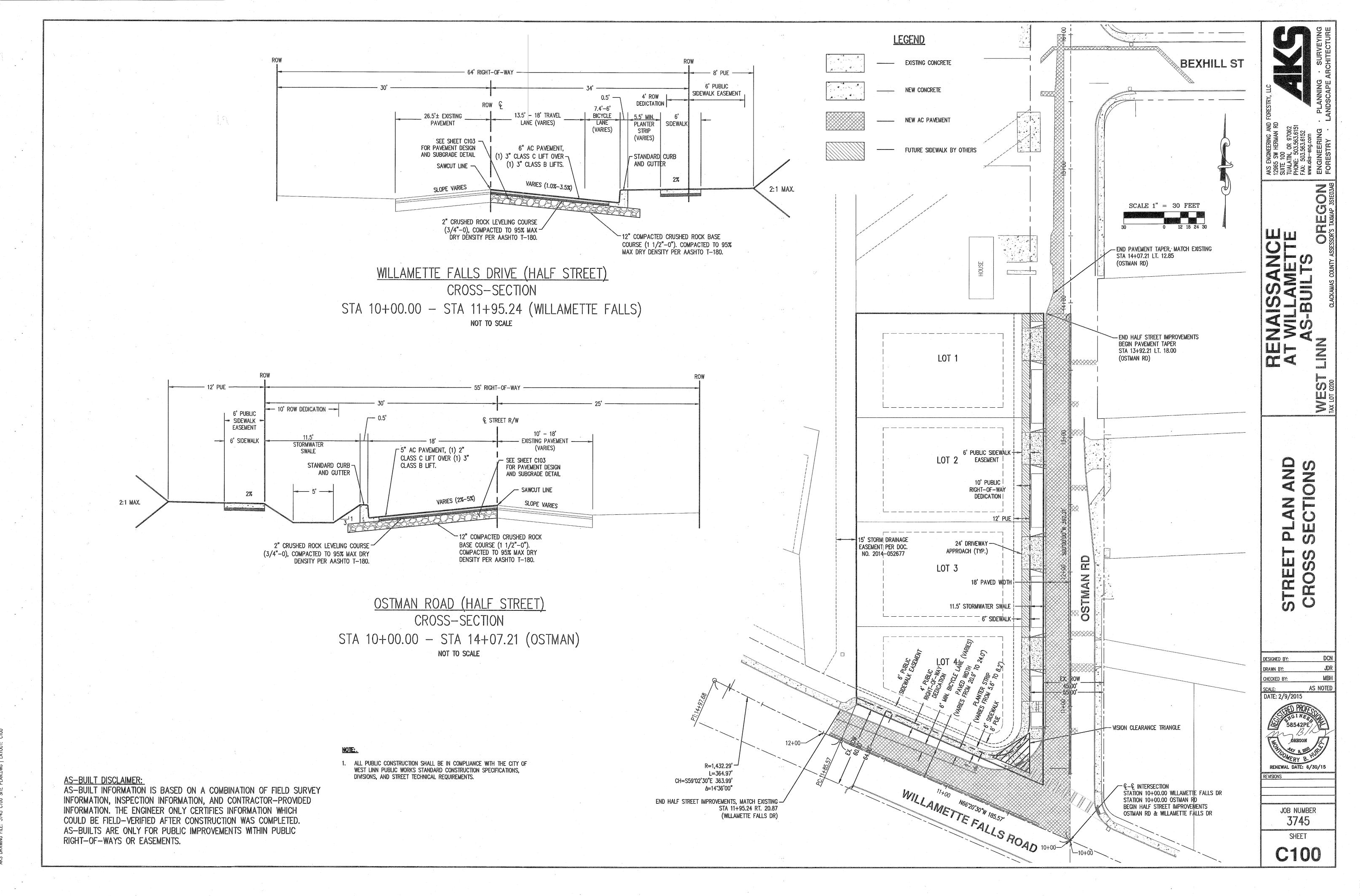
AS NOTED DATE: 2/9/2015

RENEWAL DATE: 6/30/15 REVISIONS

> JOB NUMBER 3745

C053

SHEET



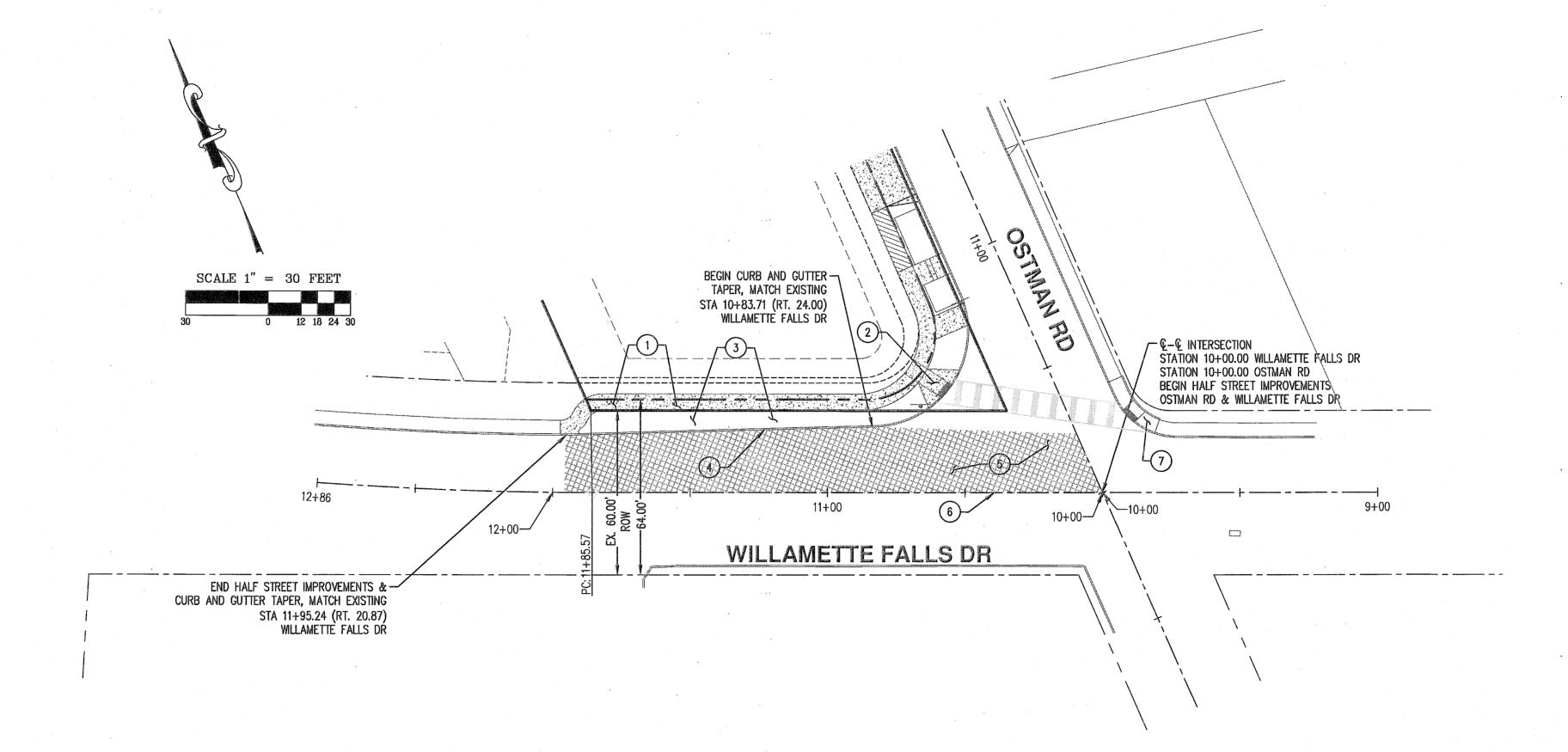
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FUTURE SIDEWALK BY OTHERS

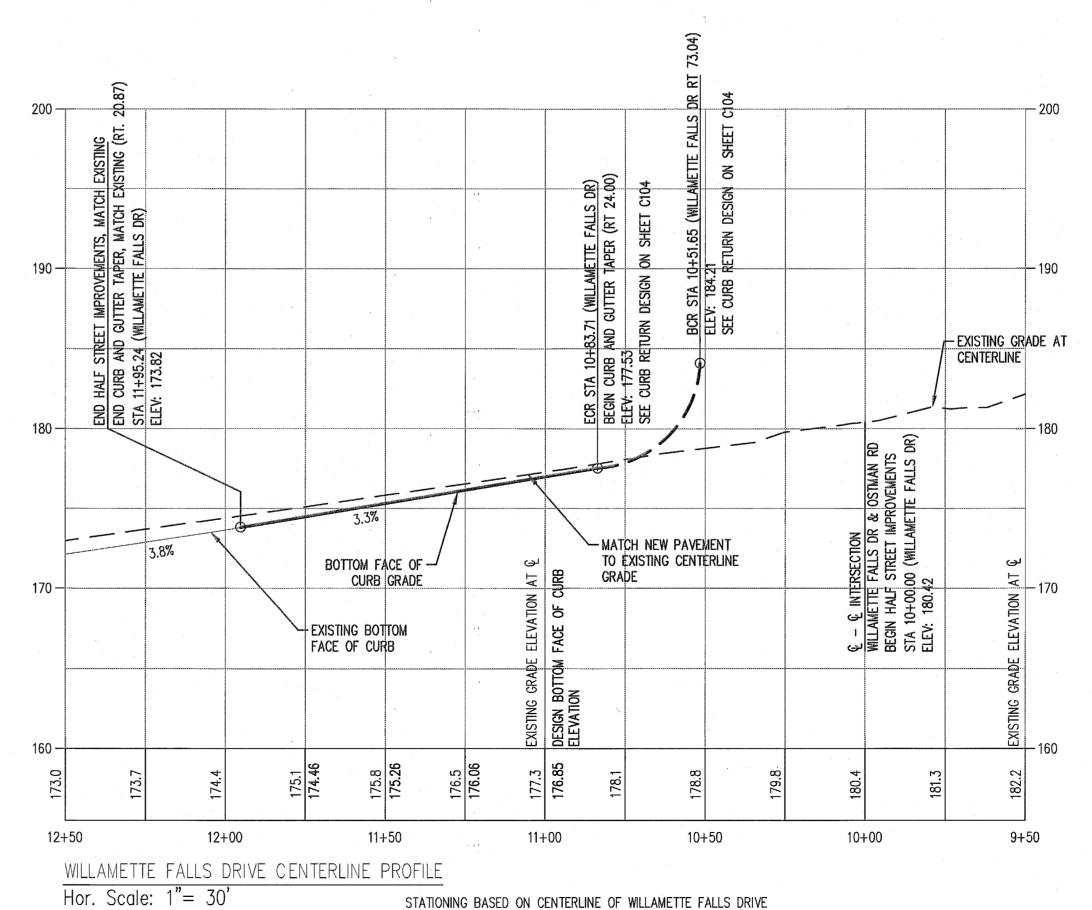
LEGEND

EXISTING CONCRETE NEW CONCRETE **NEW AC PAVEMENT**



PUBLIC STREET KEYED NOTES

- 1) INSTALL 6' WIDE CONCRETE SIDEWALK, SEE DETAIL ON SHEET C103, SEE SHEET C104 FOR DETAILED GRADING.
- 2 INSTALL SIDEWALK RAMP, SEE DETAIL ON SHEET C103. SEE SHEET C104 FOR DETAILED GRADING.
- (TO BE APPROVED BY CITY ARBORIST).
- (4) INSTALL STANDARD CURB AND GUTTER, SEE DETAIL ON SHEET C103.
- (5) INSTALL AC PAVEMENT AND AGGREGATE BASE, SEE DETAIL ON SHEET C103.
- 6 SAWCUT EX AC AT CENTERLINE. SAND AND SEAL SAWCUT JOINT PER CITY CONSTRUCTION STANDARDS.
- (7) INSTALL SIDEWALK RAMP, SEE DETAIL ON SHEET C104.



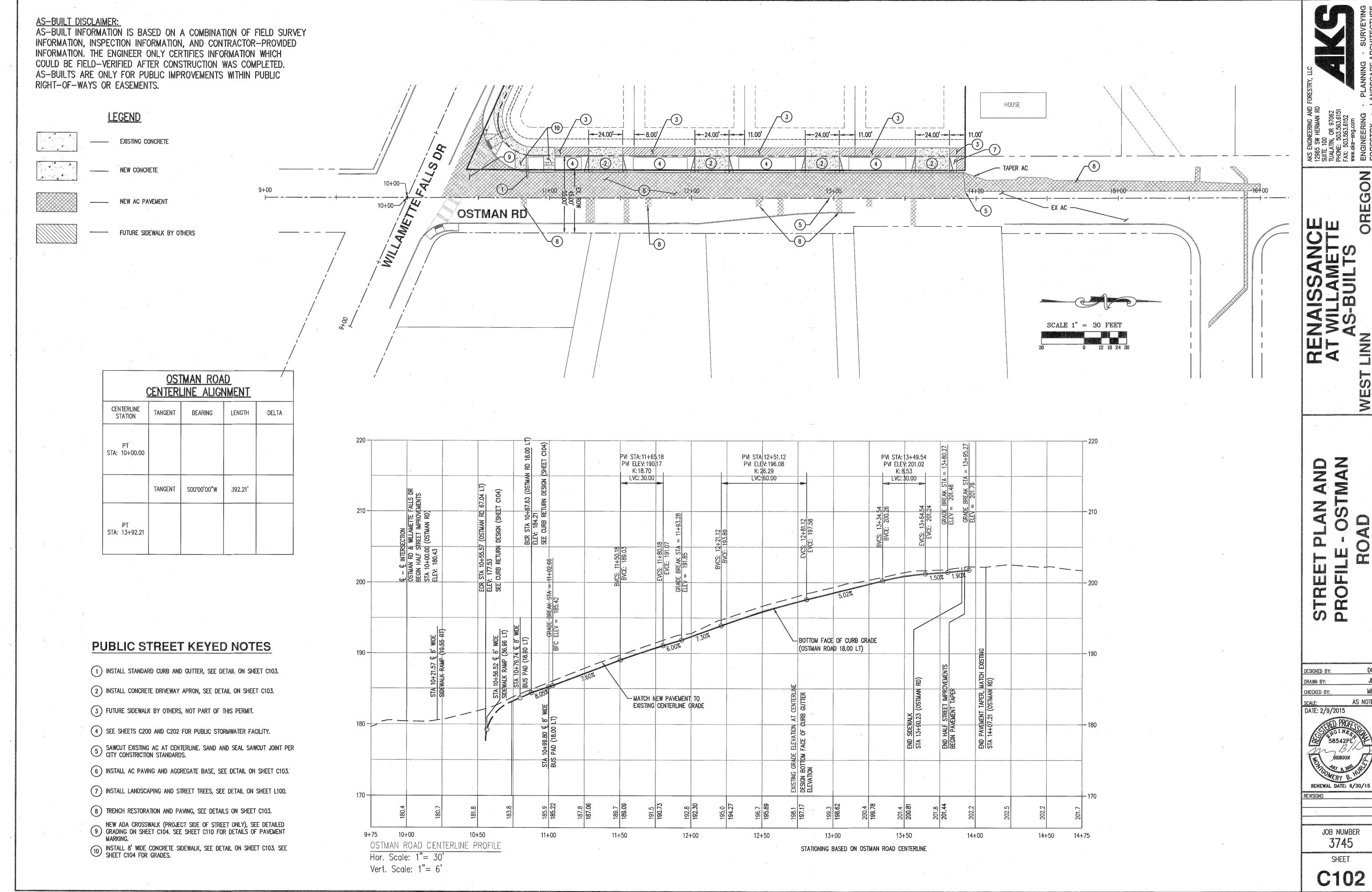
WILLAMETTE FALLS DRIVE CENTERLINE ALIGNMENT										
CENTERLINE STATION	TANGENT / CURVE	BEARING / RADIUS	LENGTH	DELTA						
PT STA: 10+00.00										
	TANGENT	N66°20′30"W	185.57'							
PC STA: 11+85.57										
	CURVE RT	1432.29'	9.66'	00°23′00″						
PT STA: 11+95.24										

DATE: 2/9/2015

JOB NUMBER 3745

SHEET C101

Vert. Scale: 1"= 6'



C102

OREGON 3SIF03AB

CONTRACT-JOINT CURB-SIDEWALK AWAY FROM CURB 10% SLOPE─\ 2% SLOPE-DEPRESSED CURB FOR-DRIVEWAY. 1" MAX LIP.

2" OF 3" MINUS-

SECTION A-A

West

COMPACTED SUBGRADE

CONCRETE SHALL HAVE A MINIMUM BREAKING

DRIVEWAY CURB CUT SHALL COMPLY WITH THE

CONDITIONS OF 5.0070, "WIDTH AND LOCATION OF

A. MUST MEET CURRENT ADA REQUIREMENTS

B. DAMAGED ROADWAY MUST BE SAWCUT AND

REPAVED WITH CLASS C HOT MIX ASPHALT

STRENGTH OF 3300 PSI AFTER 28 DAYS

CURB SHALL BE TROWELED JOINT WITH

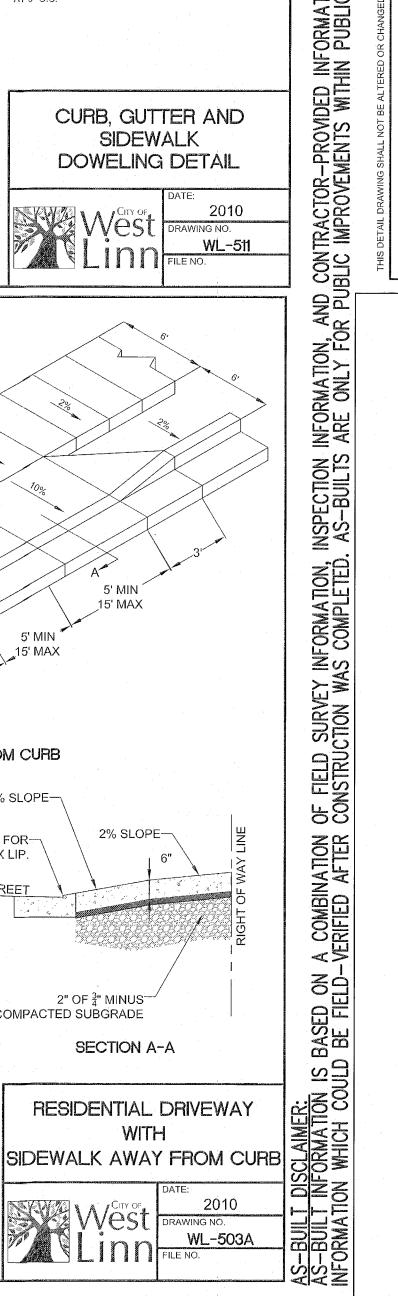
3. DRIVEWAY SHALL BE A MINIMUM 6" THICK

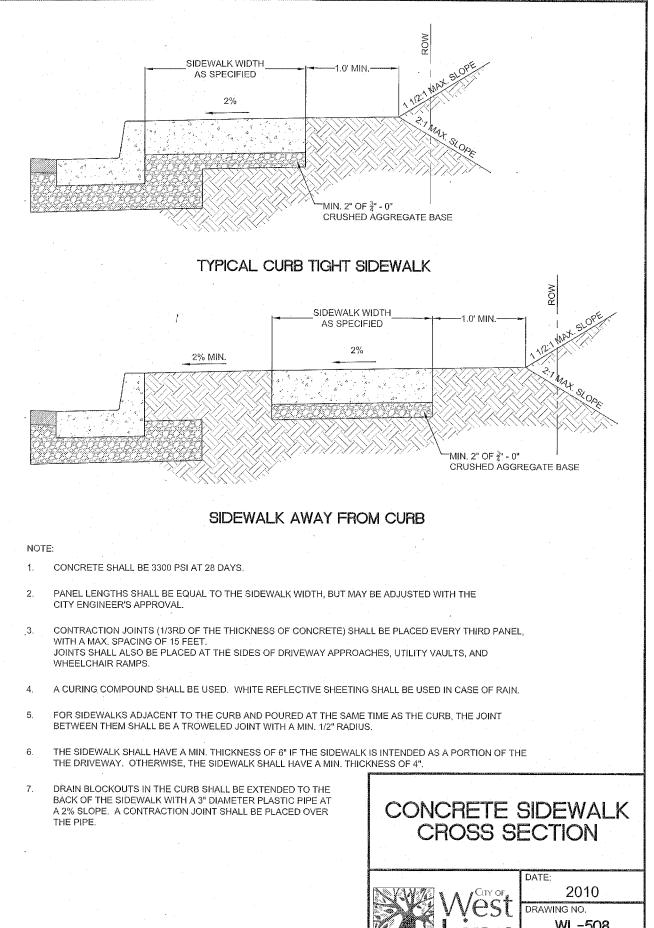
MIN. 1/2" RADIUS ALONG BACK OF CURB

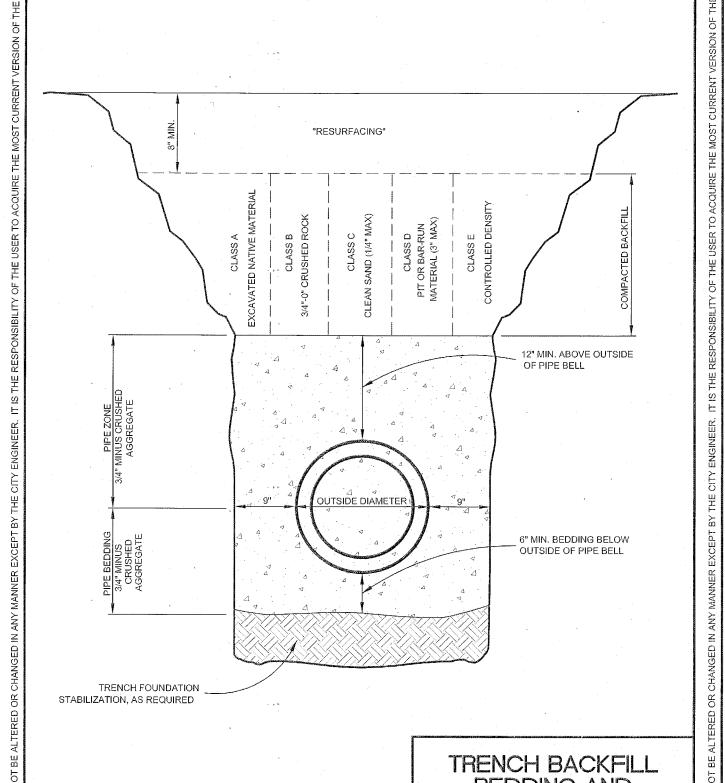
5. FOR REPLACEMENT OF EXISITING APPROACH:

TO GREATEST DEGREE POSSIBLE.

6 SACK MIX







BEDDING AND PIPE ZONE

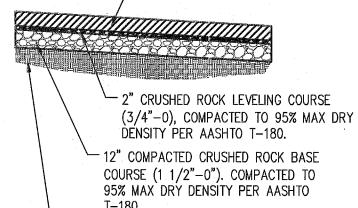
WL-200

PLACE "C" MIX AC MINIMUM THICKNESS OF 4" OR THE -SEAL SURFACE OVER THICKNESS OF THE REMOVED JOINT WITH TACK PAVEMENT, WHICHEVER IS MATERIAL AND SAND GREATER. COMPACT AS (AC PATCH ONLY) SPECIFIED--EXIST. PAVEMENT EXIST. PAVEMENT----6" MIN. 6" MIN--TACK COAT TACK COAT CUT EDGES CUT EDGES--COMPACTED AGGREGATE BASE, CDF OR FULL UNDISTURBED DEPTH ASPHALT AS DIRECTED BASE (EXIST.)-TRENCH WIDTH | COMPACTED TRENCH BACKFILL OR CDF AS SPECIFIED

- ALL EXISTING AC OR PCC PAVEMENT SHALL BE SAWCUT TO NEAT, STRAIGHT LINES PRIOR TO REPAVING.
- CONCRETE PAVEMENT SHALL BE REPLACED WITH CONCRETE TO A MINIMUM THICKNESS OF REMOVED PAVEMENT, WHICHEVER IS GREATER.
- IF EXISTING BASE MATERIAL IS CTB OR ATB, THEN REPLACEMENT BASE MATERIAL SHALL MATCH EXISTING.
- ALL UTILITIES SHALL HAVE A MINIMUM COVER OF 36".
- ALL TRENCH BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-180 OR AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- ALL TRENCH BACKFILL AND PATCHING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF WEST LINN.
- APPROVED CDF SHALL BE USED OR 3/4 0" GRAVEL BACKFILL SHALL BE PLACED AND COMPACTED IN 12" MAXIMUM LIFTS. IF 3/4-0" GRAVEL BACKFILL IS USED, COMPACTION TESTING BY A CERTIFIED TESTING COMPANY IS REQUIRED AT DEPTH INTERVALS AS SPECIFIED BY THE CITY ENGINEER.
- T-CUT MAY BE ENLARGED AT THE DISCRETION OF THE CITY ENGINEER OR CITY INSPECTOR DUE TO SITE CONDITIONS OR PROJECT REQUIREMENTS
- 9. ALL CUT EDGES SHALL BE SAND SEALED.
- 10. COMPACTED BACKFILL OR CDF MUST EXTEND 2 FEET OUTSIDE OF PAVEMENT SURFACE.

STREET T-CUT

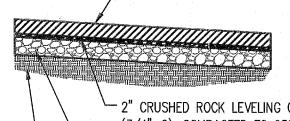
– 5" AC PAVEMENT, (1) 2" CLASS C LIFT OVER (1) 3" CLASS B LIFT.



- COMPACTED SUBGRADE PER ONSITE GEOTECHNICAL ENGINEER DURING CONSTRUCTION. COMPACTED AND PROOF ROLLED.

OSTMAN STREET

- 6" AC PAVEMENT, (1) 3" CLASS C LIFT OVER (1) 3" CLASS B LIFT.

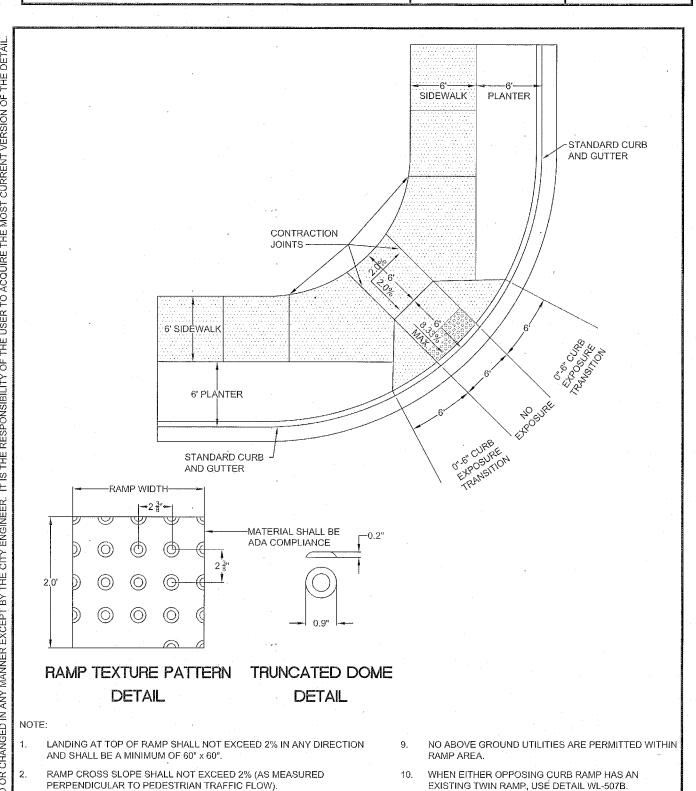


2" CRUSHED ROCK LEVELING COURSE (3/4"-0), COMPACTED TO 95% MAX DRY DENSITY PER AASHTO T-180. 12" COMPACTED CRUSHED ROCK BASE COURSE $(1 \frac{1}{2} - 0)$. COMPACTED TO 95% MAX DRY DENSITY PER AASHTO

- COMPACTED SUBGRADE PER ONSITE GEOTECHNICAL ENGINEER DURING CONSTRUCTION. COMPACTED AND PROOF ROLLED.

WILLAMETTE FALLS DRIVE

TYPICAL NEW ASPHALT SECTION NTS



TRUNCATED DOME MUST EXTEND THE FULL WIDTH OF THE RAMP AND COVER THE FIRST 2 FEET OF THE RAMP CLOSEST TO THE STREET. TRANSITIONS FROM THE RAMP TO THE WALKWAY, GUTTER, AND STREET MUST BE FLUSH (LEVEL) AND FREE OF ABRUPT LEVEL CHANGES. THE GUTTER OR ADJACENT ROADWAY MUST HAVE A SLOPE OF NO MORE

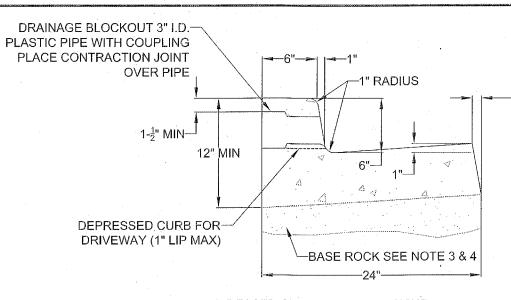
THAN 5 PERCENT (1:20) TOWARD THE RAMP. FLARED SIDES ("WING") OF THE CURB RAMP SHALL NOT EXCEED 10% IN SLOPE (8.33% IF PEDESTRIAN TRAVEL IS REQUIRED OVER THEM PER ADA STANDARDS - I.E. IF MINIMUM 48" x 48" (FOR EXISTING SITES ONLY) LANDING IS NOT PROVIDED AT TOP OF RAMP). CONCRETE STRENGTH SHALL BE-3300 PSI.

PLACE CONTRACTION JOINTS AS SHOWN ABOVE.

SINGLE CURB RAMP (ALLOWED WITH CITY

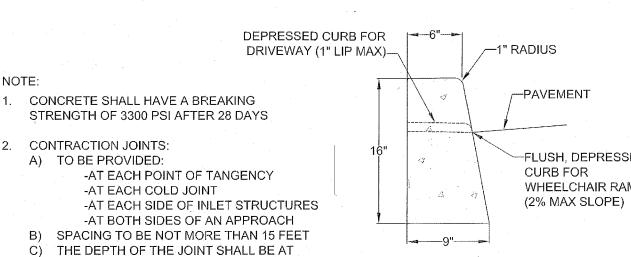
ENGINEER APPROVAL ONLY)

VVest WL-507A



FLUSH, DEPRESSED CURB FOR WHEELCHAIR RAMP 2% MAX SLOPE

TYPICAL CURB AND GUTTER



TYPICAL STRAIGHT CURB

2 West

BASE ROCK - 1-1/2"-0", 95% COMPACTION PER AASHTO T-180 ROCK SHALL BE TO SUBGRADE OF THE STREET SECTION OR 4" IN DEPTH, WHICHEVER IS GREATER

LEAST 1/3 OF THE THICKNESS OF CONCRETE

FULL DEPTH PREPARED ROCK SECTION SHALL EXTEND 1' HORIZONTALLY BEYOND BOTH SIDES OF CURB AND GUTTER

D) EXPANSION JOINTS SHALL NOT BE USED

CONTRACTION JOINTS:

A) TO BE PROVIDED:

DRAINAGE BLOCK - 3" DIA. PLASTIC PIPE A) DRAINAGE ACCESS THROUGH EXISTING CURBS SHALL BE DONE BY: -CORE DRILLING -VERTICAL SAWCUT OF CURB 24" EACH SIDE OF DRAIN AND RE-POURED TO FULL DEPTH

STAMP TOP OF CURB WITH "W" AT WATER SERVICE CROSSING AND "S" AT SANITARY

OF CURB

DESIGNED BY -FLUSH, DEPRESSEI AS NOTED WHEELCHAIR RAMP (2% MAX SLOPE) DATE: 2/9/2015

RENEWAL DATE: 6/30/15

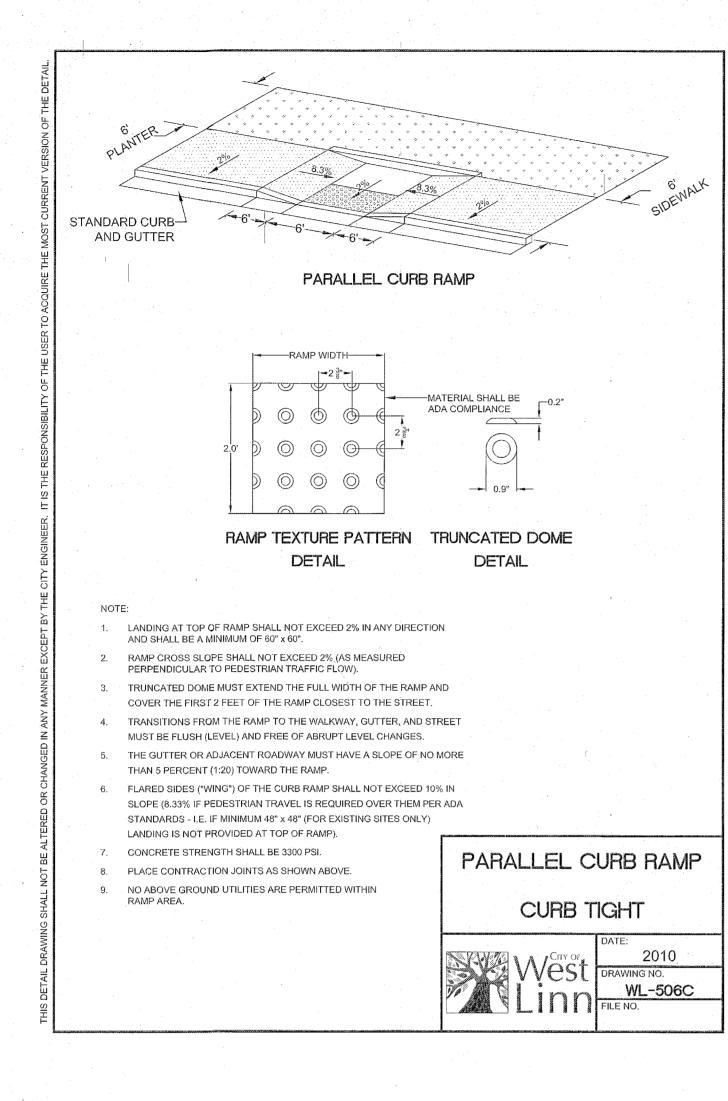
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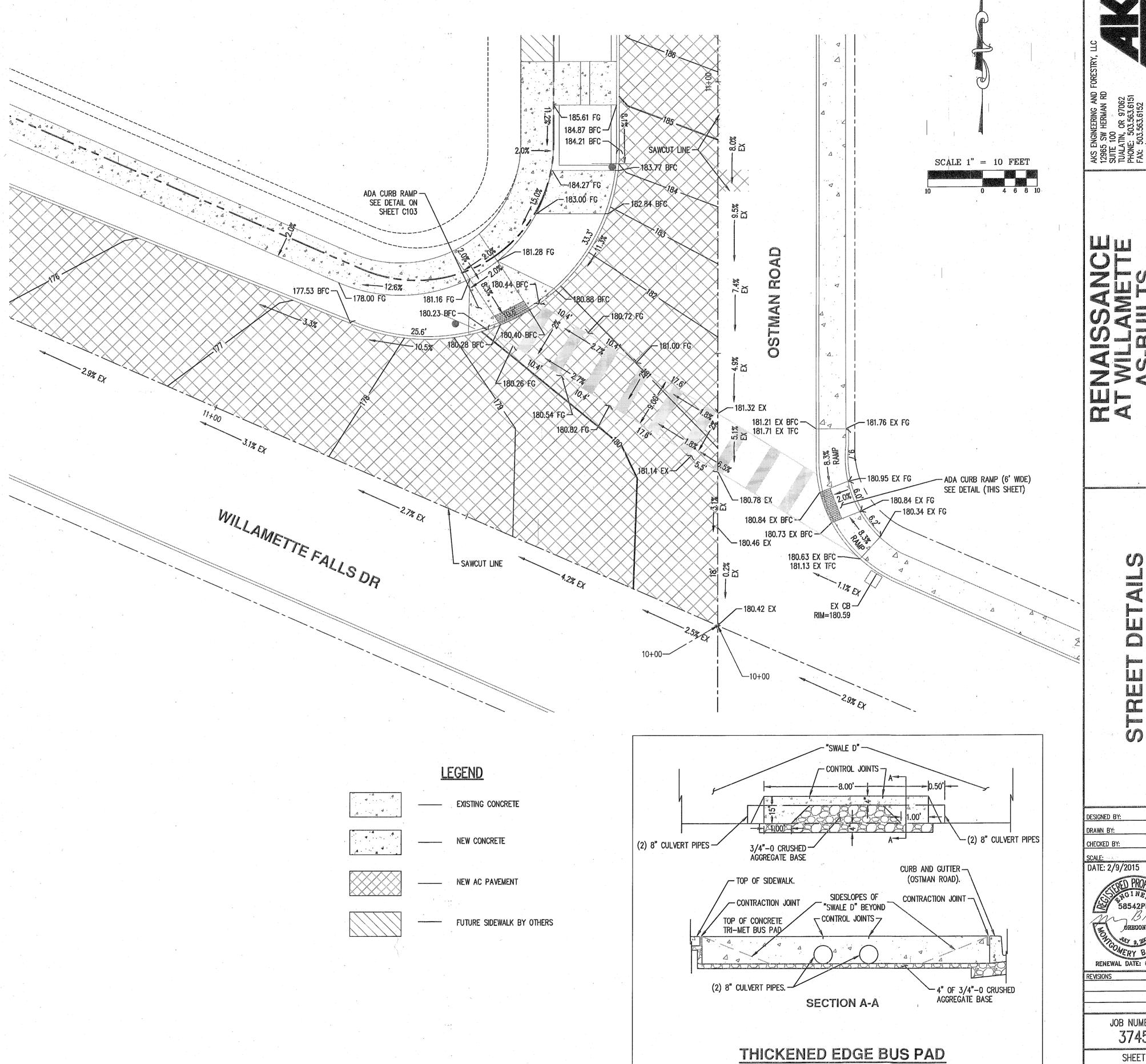
TYPICAL CURBS

JOB NUMBER 3745

REVISIONS

SHEET





JOB NUMBER

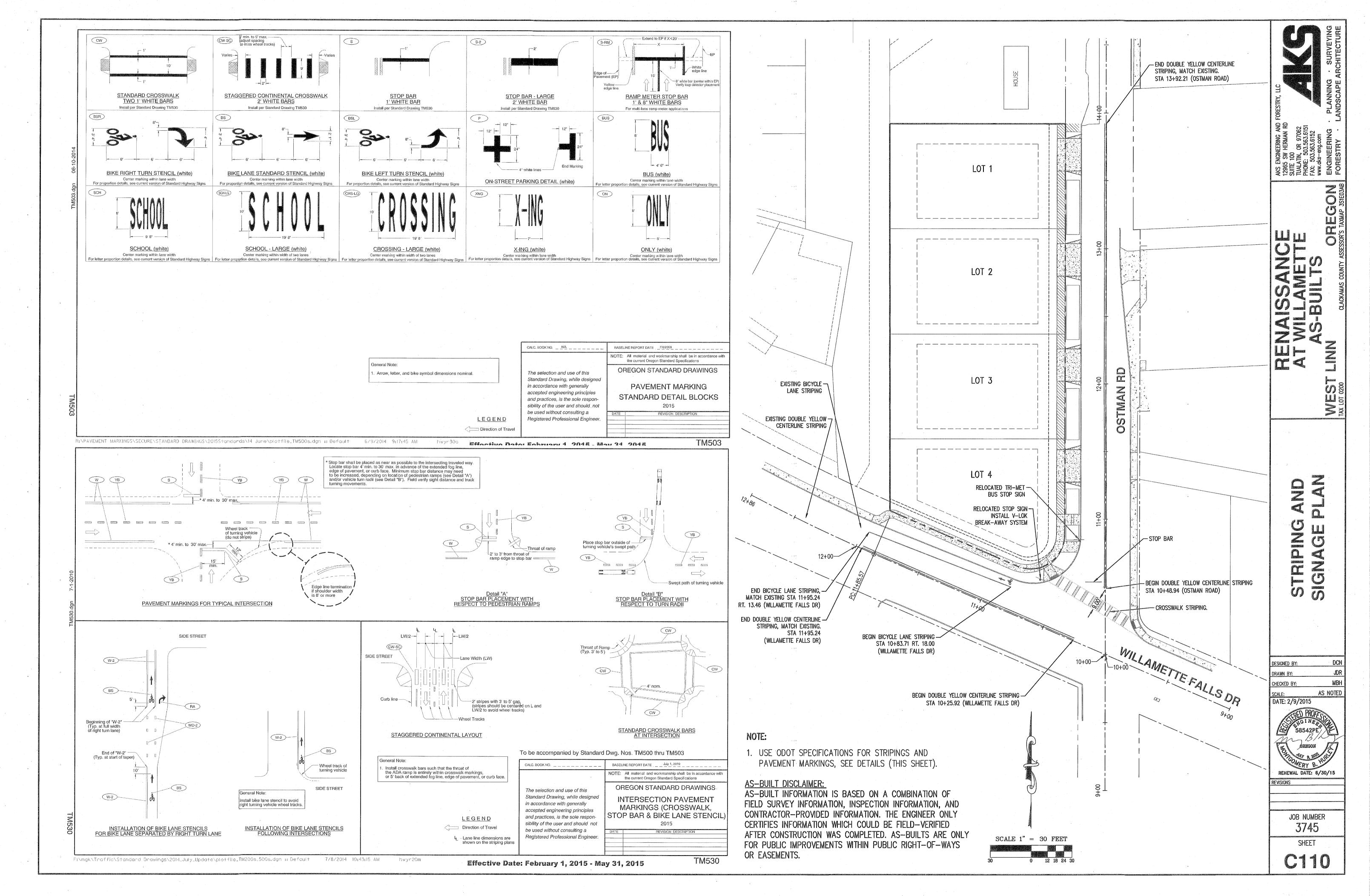
3745

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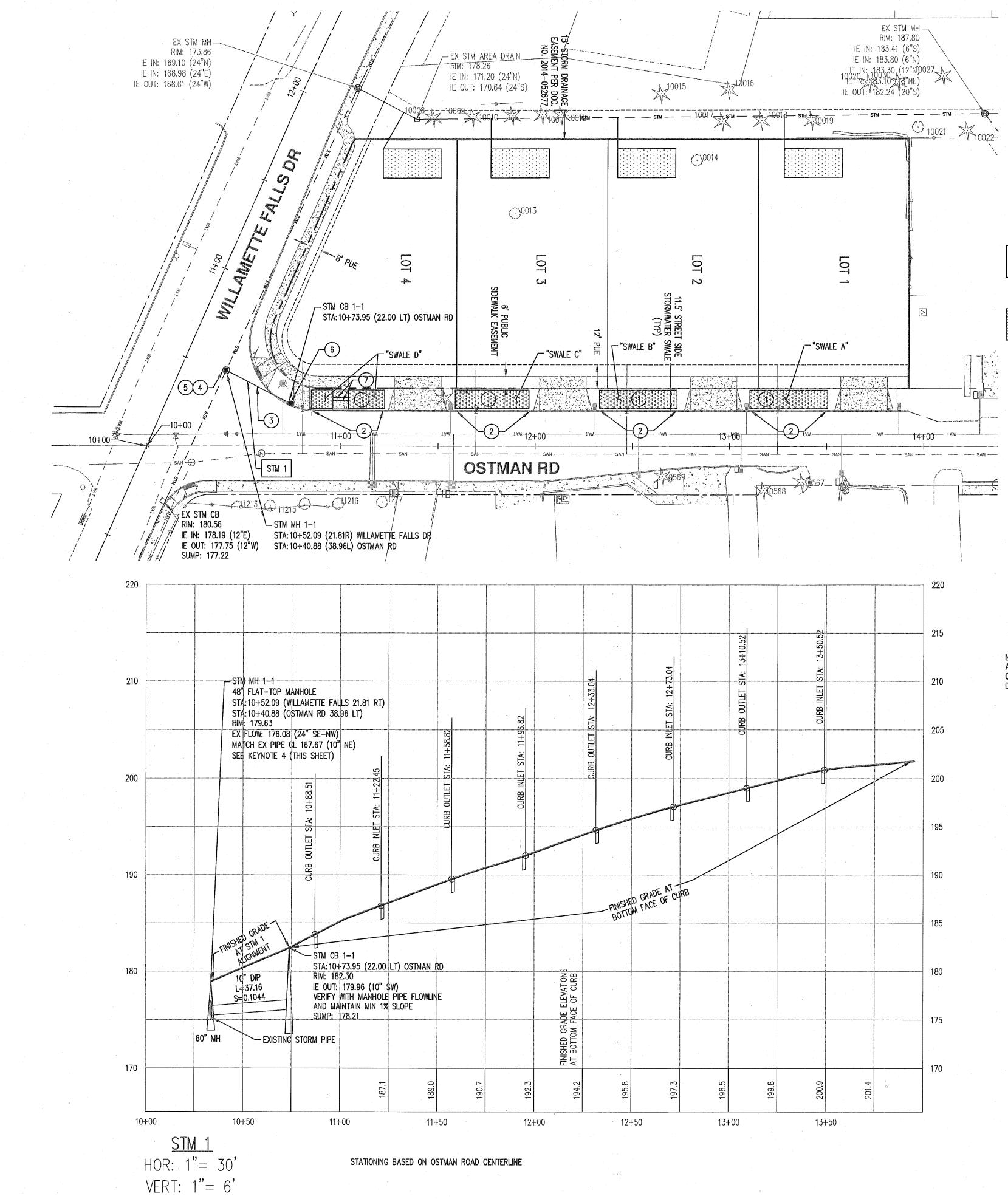
C104

NTS

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AKS DRAWING FILE: 3745 C100 SITE PLAN.DWG | LAYOUT: C110



SCALE 1" = 30 FEET

30 0 12 18 24 30

<u>LEGEND</u>

PRIVATE STORMWATER "RAINGARDEN" FACILITY FOR LOTS, BY OTHERS. NOT PART OF THIS PERMIT.

PUBLIC STREETSIDE STORMWATER FACILITY, SEE DETAIL ON SHEET C202.

PUBLIC STORMWATER DRAINAGE KEYED NOTES

- 1) INSTALL PUBLIC STREETSIDE STORMWATER FACILITY PER DETAILS ON SHEET C201.
- INSTALL INLET AND OUTLET IN CURB PER DETAIL ON SHEET C201.

 REVERSE SLOPE ON OUTLET WING WALL ONLY, 0.10' TO PREVENT GUTTER DRAINAGE FROM ENTERING SWALE AT SWALE OUTLET LOCATION. ALL. INLETS TO BE 30' WIDE AT THROAT.
- (3) INSTALL 37 LF 10" DIP AT S = 0.1044.
- CONTRACTOR SHALL POTHOLE TO VERIFY EXISTING PIPE SIZE AND FLOWLINE AT THIS LOCATION PRIOR TO ORDERING AND INSTALLING STORM
- 5) INSTALL 60" STORMWATER MANHOLE, SEE DETAIL ON SHEET C201.
- (6) INSTALL "2 1/2 A" GUTTER INLET, SEE DETAIL ON SHEET C201.
- 7) INSTALL (2) 8" ASTM D3034 SDR 35 CULVERT PIPES AT BOTTOM OF "SWALE D". MATCH FLOWLINES TO SWALE FLOWLINE.

NOTE:
ALL PUBLIC STORM SEWER CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE CITY OF WEST LINN PUBLIC WORKS STANDARD CONSTRUCTION SPECIFICATIONS, DIVISION 6, STORM DRAIN TECHNICAL REQUIREMENTS.

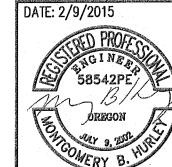
KS ENGINEERING AND FORESTRY, LLC
2965 SW HERMAN RD
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TUALATIN, O
PHONE: 503
FAX: 503.56
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OPEGON SSESSOR'S TAXMAP 3S1E03AB

SIGNED BY: DCN
AWN BY: JDR
ECKED BY: MBH
ALE: AS NOTED

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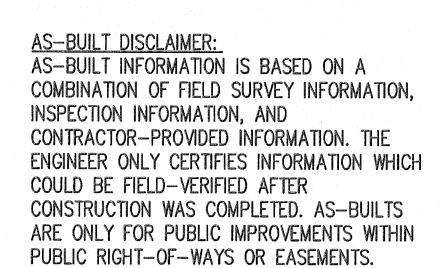
RENEWAL DATE: 6/30/15

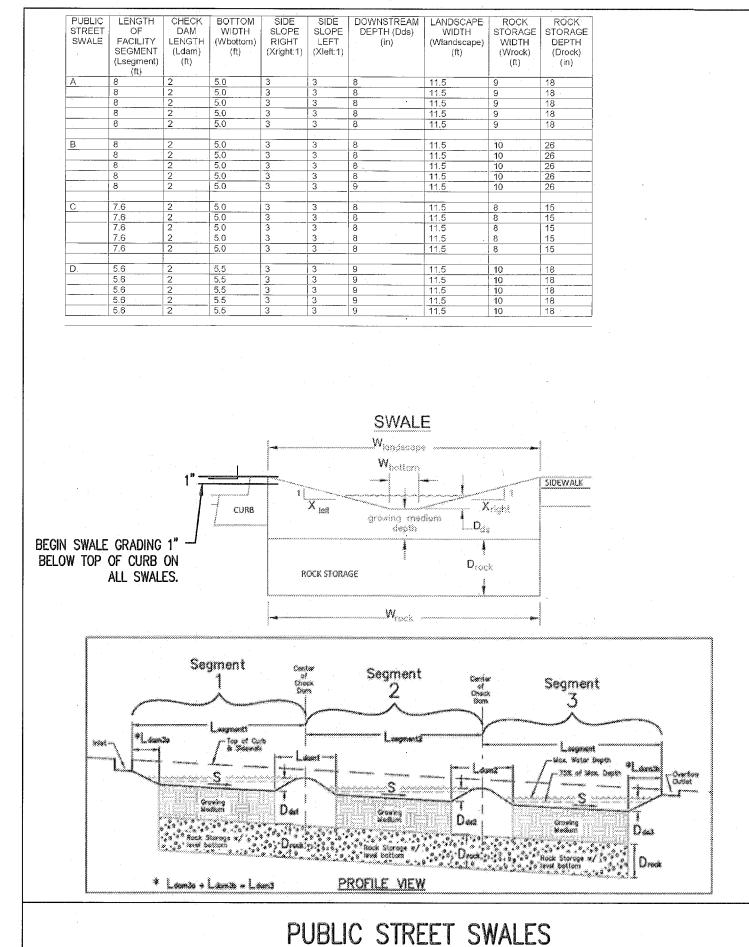
JOB NUMBER 3745

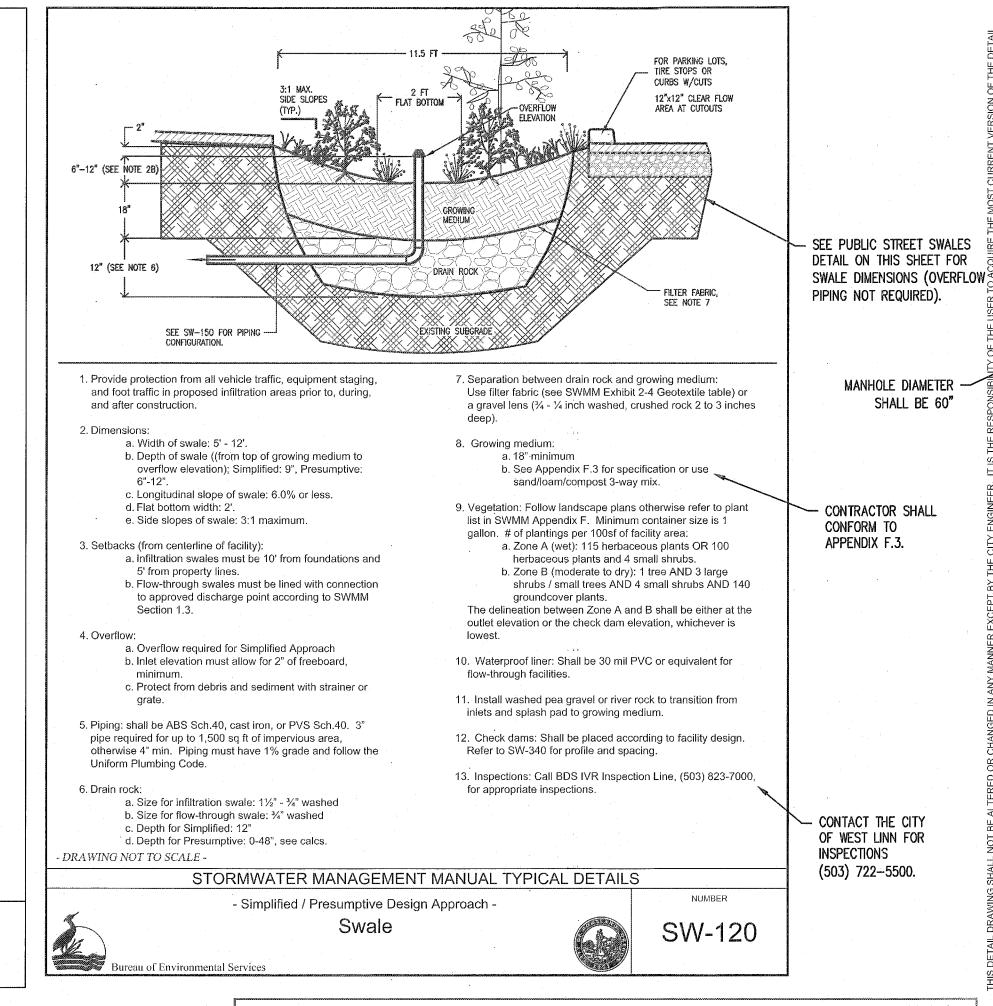
SHEET C200

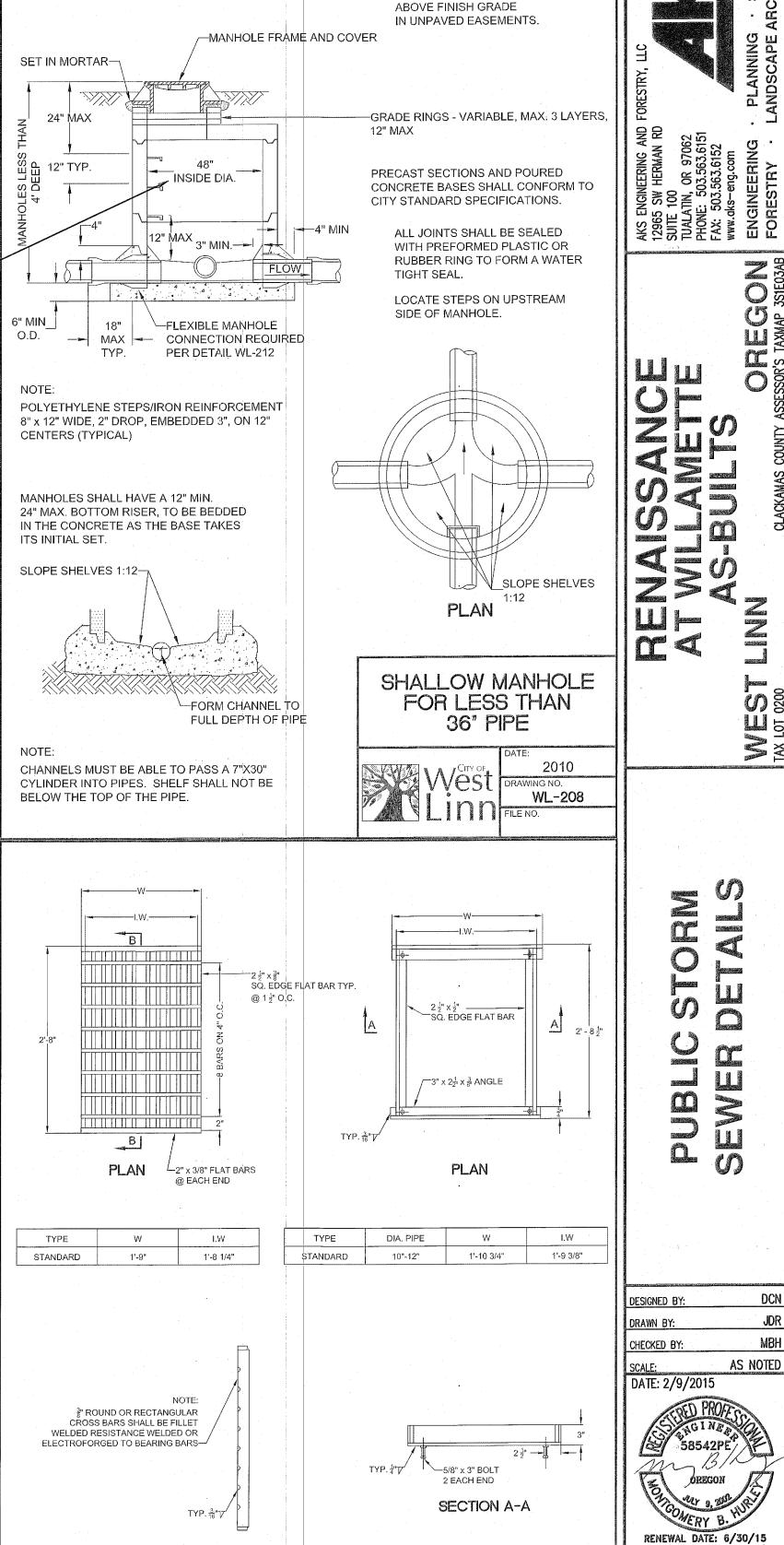
AS-BUILT DISCLAIMER:

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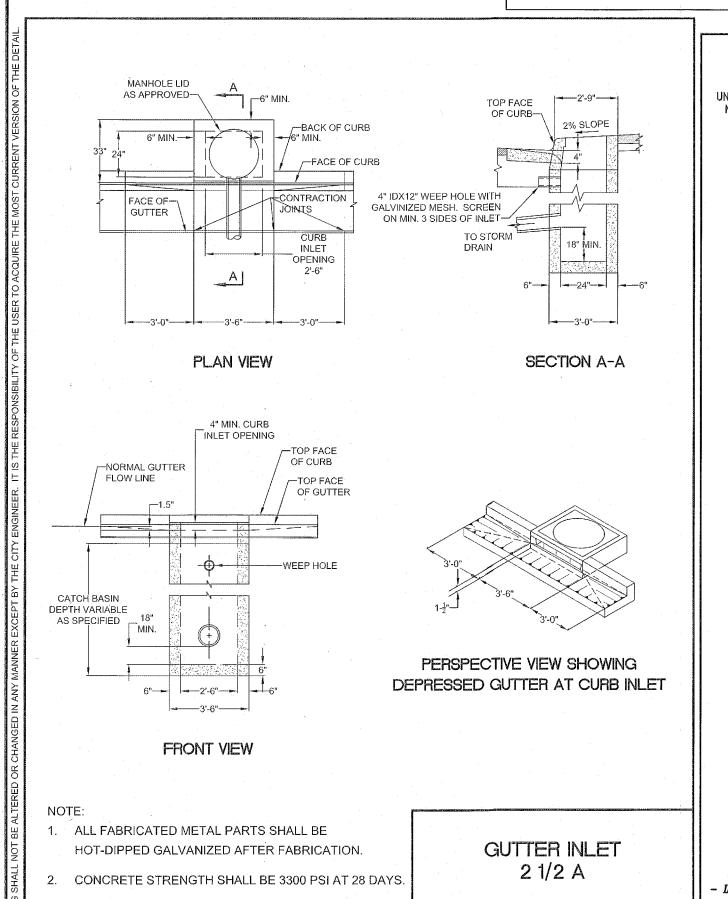






NOTE:

MANHOLE LID TO BE 1'

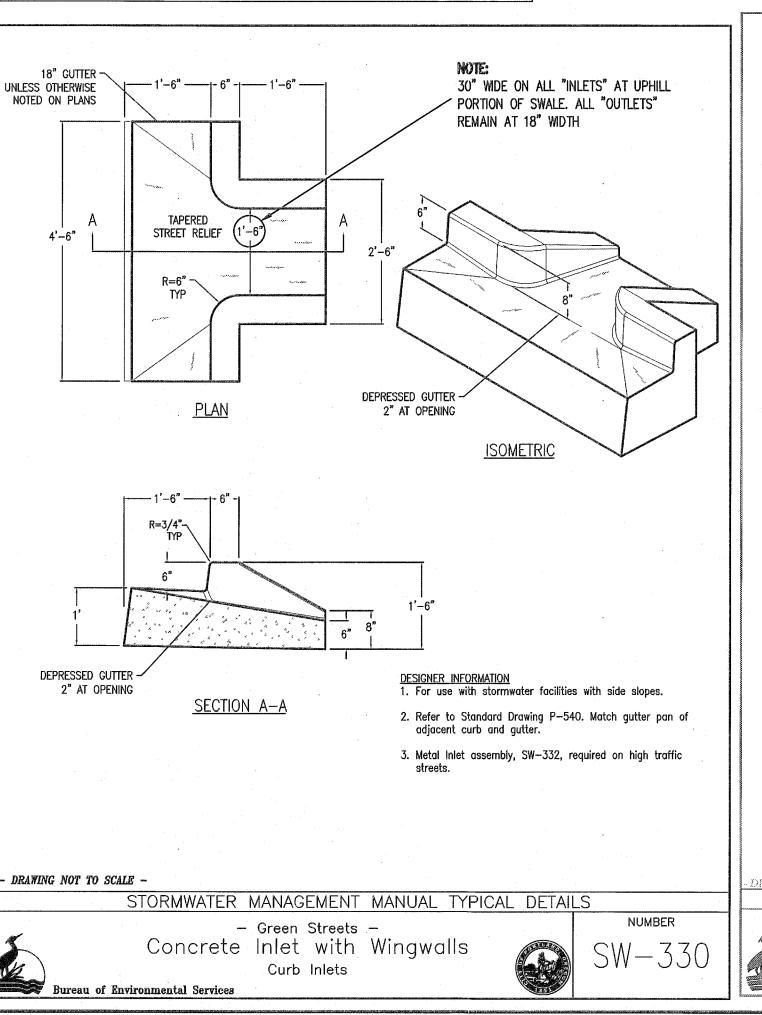


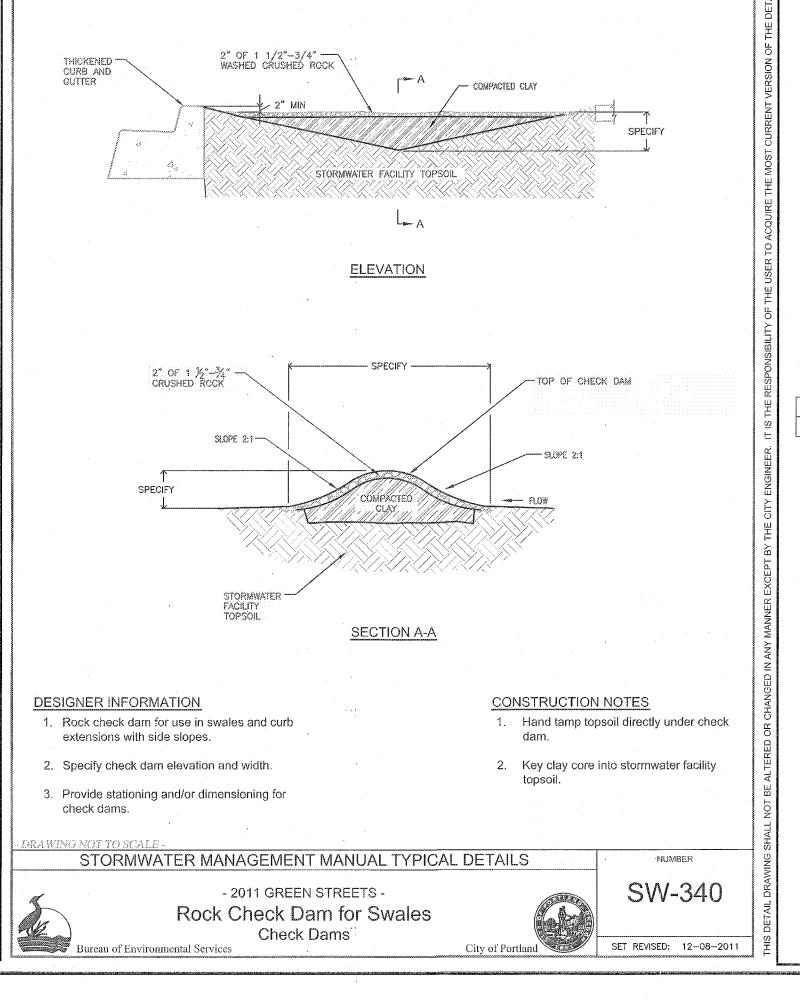
CURB INLET BASE MAY BE PRECAST OR

FOR SLOPES OF 5% OR GREATER, USE

CAST-IN-PLACE.

DWG. WL-601.





2010 WL-600 FOR GUTTER AND CURB INLET

FRAME AND GRATE

SECTION B-B

NOTE:

FRAME SURFACE.

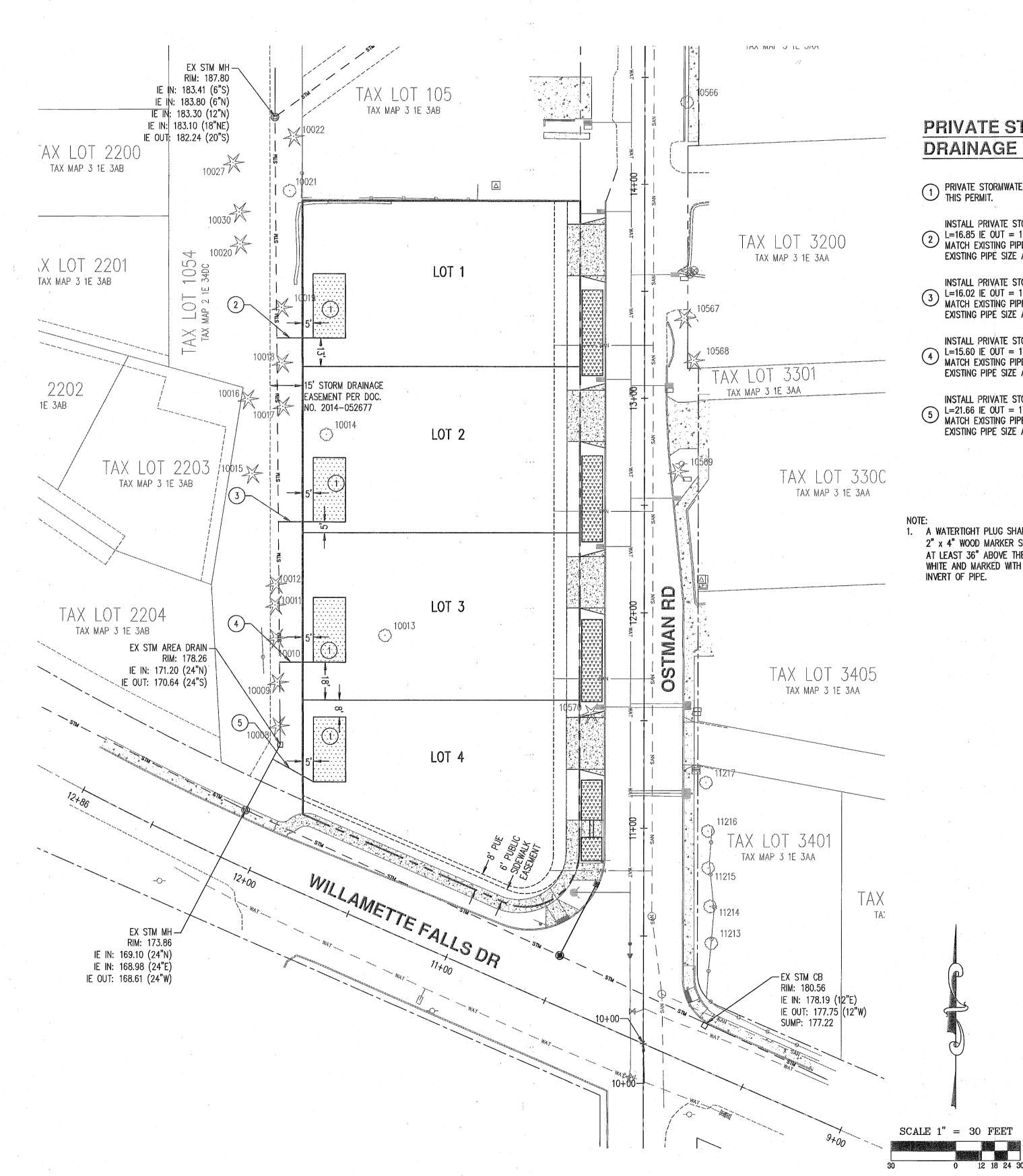
USE VERTICAL BEADS IN CORNERS,

FILLET WELD JOINT ON BOTTOM OF

FRAME. GRATE MUST REST FLAT ON

JOB NUMBER 3745 SHEET

G201



PRIVATE STORMWATER DRAINAGE KEYED NOTES

PRIVATE STORMWATER RAINGARDEN FACILITY BY OTHERS, NOT PART OF THIS PERMIT.

INSTALL PRIVATE STORMWATER OVERFLOW PIPE, 8" PCV ASTM D 3034 SDR 35.

L=16.85 IE OUT = 188.90. PLACE TRACER WIRE OVER CENTERLINE OF PIPE.

MATCH EXISTING PIPE CENTERLINE. CONTRACTOR SHALL POTHOLE TO VERIFY EXISTING PIPE SIZE AND FLOWLINE AT THIS LOCATION.

INSTALL PRIVATE STORMWATER OVERFLOW PIPE, 8" PCV ASTM D 3034 SDR 35.

L=16.02 IE OUT = 182.69. PLACE TRACER WIRE OVER CENTERLINE OF PIPE.

MATCH EXISTING PIPE CENTERLINE. CONTRACTOR SHALL POTHOLE TO VERIFY EXISTING PIPE SIZE AND FLOWLINE AT THIS LOCATION.

INSTALL PRIVATE STORMWATER OVERFLOW PIPE, 8" PCV ASTM D 3034 SDR 3:

L=15.60 IE OUT = 176.47. PLACE TRACER WIRE OVER CENTERLINE OF PIPE.

MATCH EXISTING PIPE CENTERLINE. CONTRACTOR SHALL POTHOLE TO VERIFY EXISTING PIPE SIZE AND FLOWLINE AT THIS LOCATION.

INSTALL PRIVATE STORMWATER OVERFLOW PIPE, 8" PCV ASTM D 3034 SDR 35.

L=21.66 IE OUT = 172.46. PLACE TRACER WIRE OVER CENTERLINE OF PIPE.

MATCH EXISTING PIPE CENTERLINE. CONTRACTOR SHALL POTHOLE TO VERIFY EXISTING PIPE SIZE AND FLOWLINE AT THIS LOCATION.

NOTE:

1. A WATERTIGHT PLUG SHALL BE INSTALLED ON THE END OF SERVICE LATERALS AND A

2" x 4" WOOD MARKER SHALL BE PLACED AT LATERAL END FROM PIPE INVERT TO

AT LEAST 36" ABOVE THE FINISHED GROUND. THE 2" x 4" TOP SHALL BE PAINTED

WHITE AND MARKED WITH THE DEPTH OF THE LATERAL MEASURED FROM GROUND TO

INVERT OF PIPE.

Sooks TAVIAND REFORM

DESIGNED BY: DCI
DRAWN BY: JDF
CHECKED BY: MBF

DATE: 2/9/2015

DATE: 2/9/2015

SCALE: AS NO
DATE: 2/9/2015

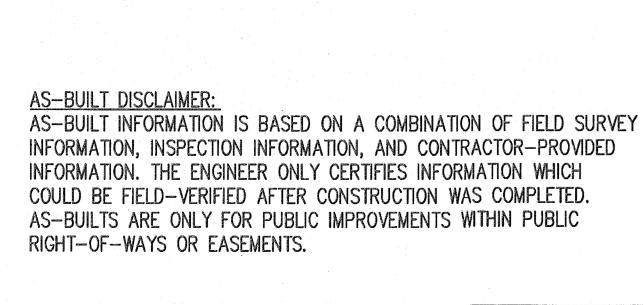
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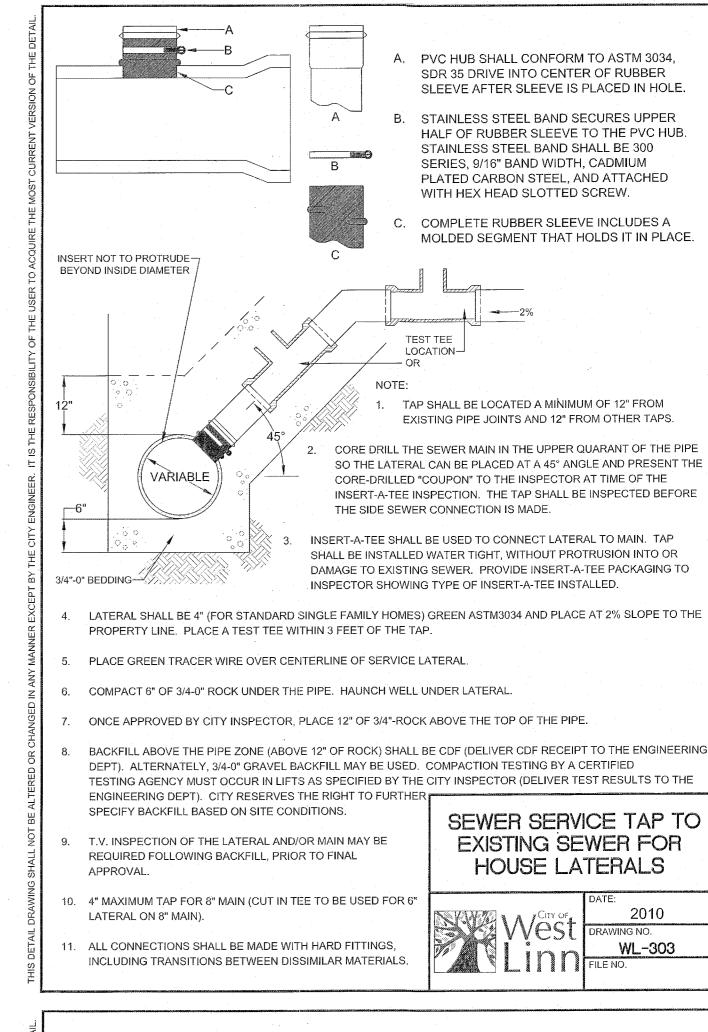
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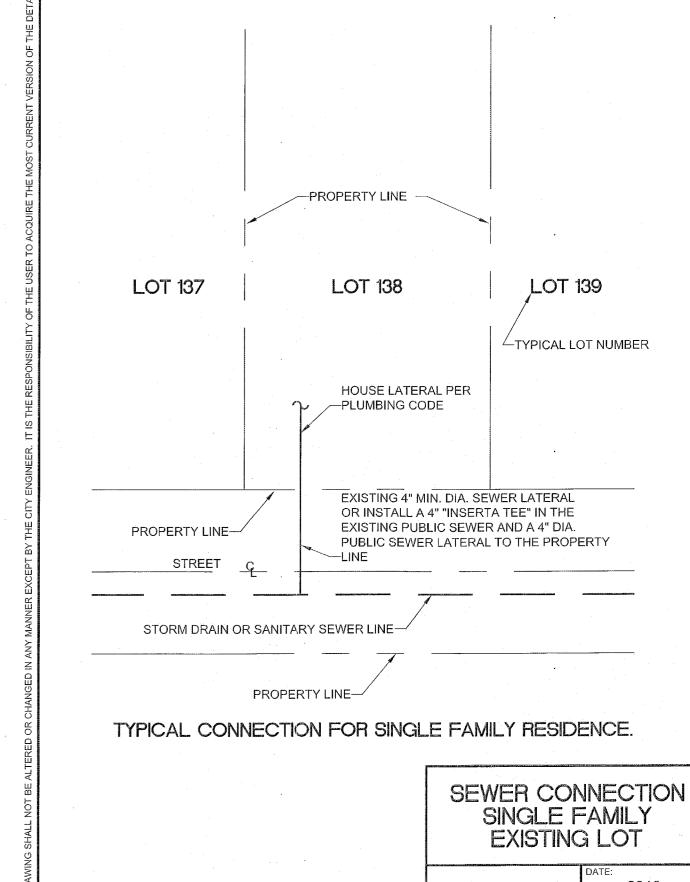
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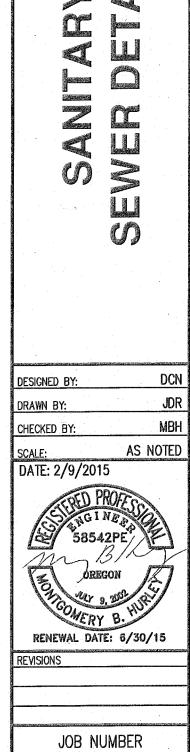
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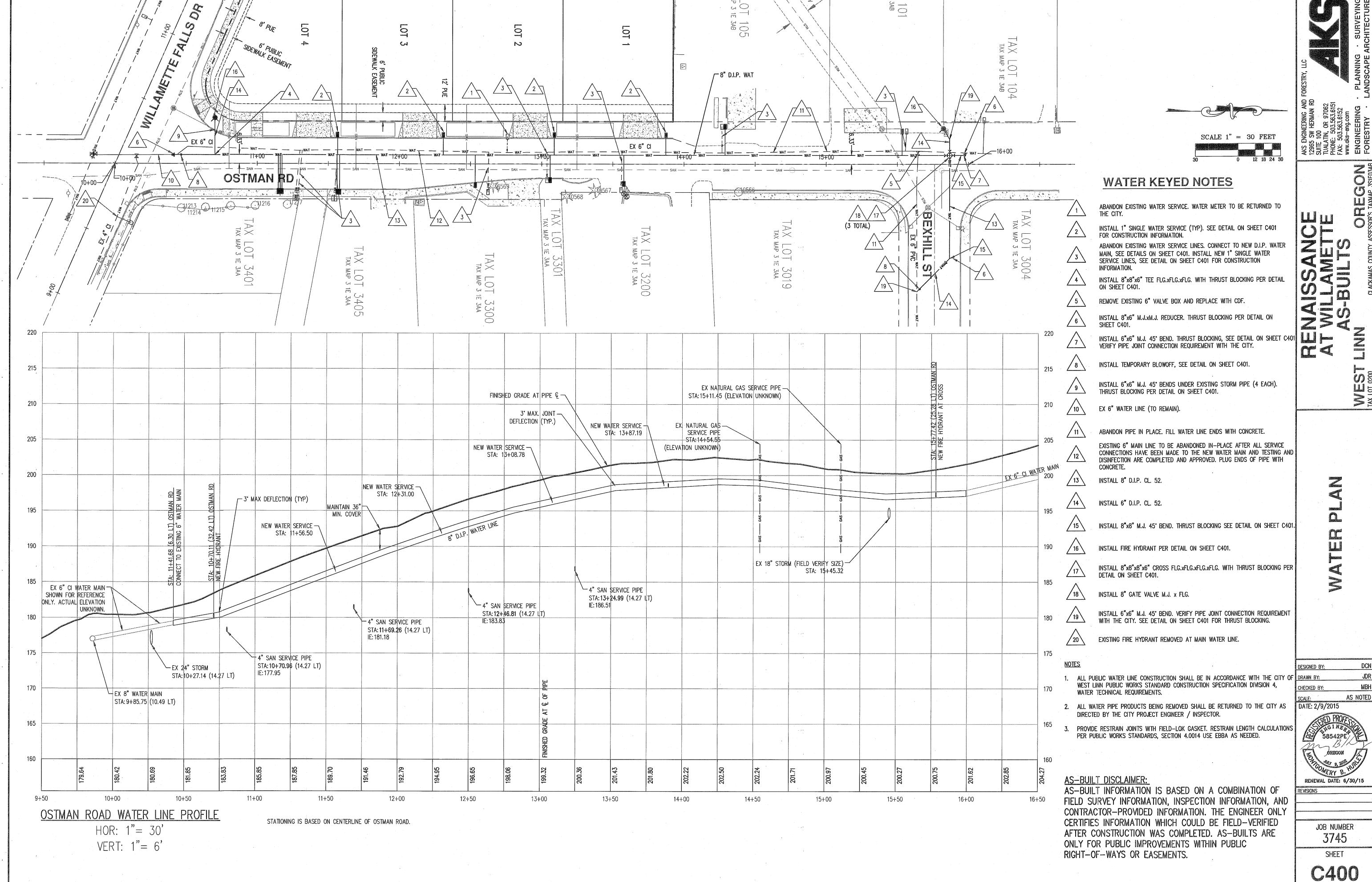


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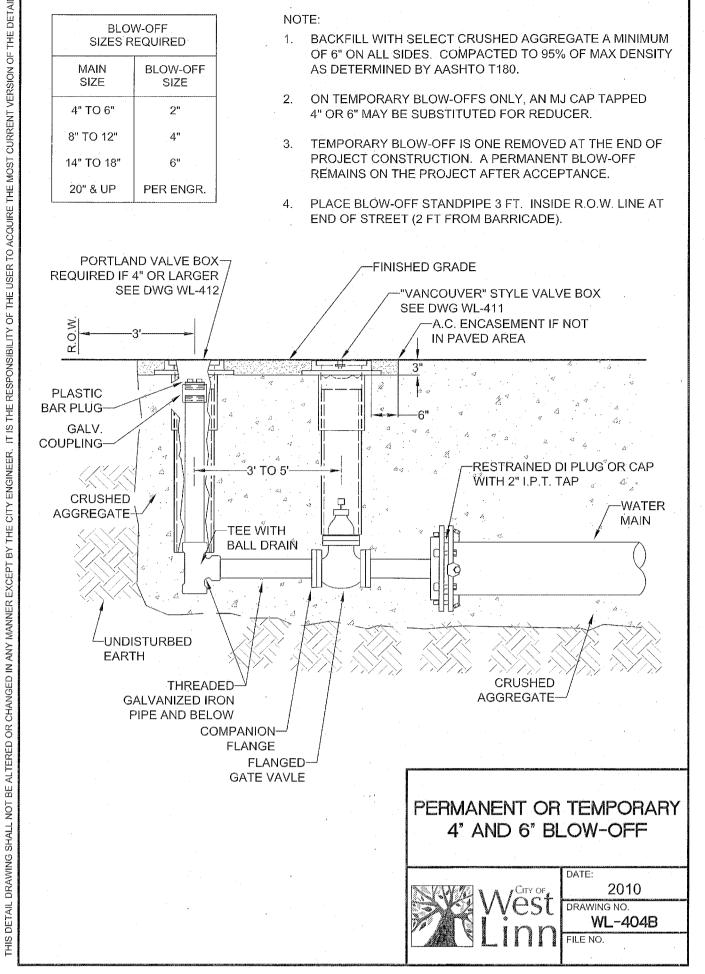
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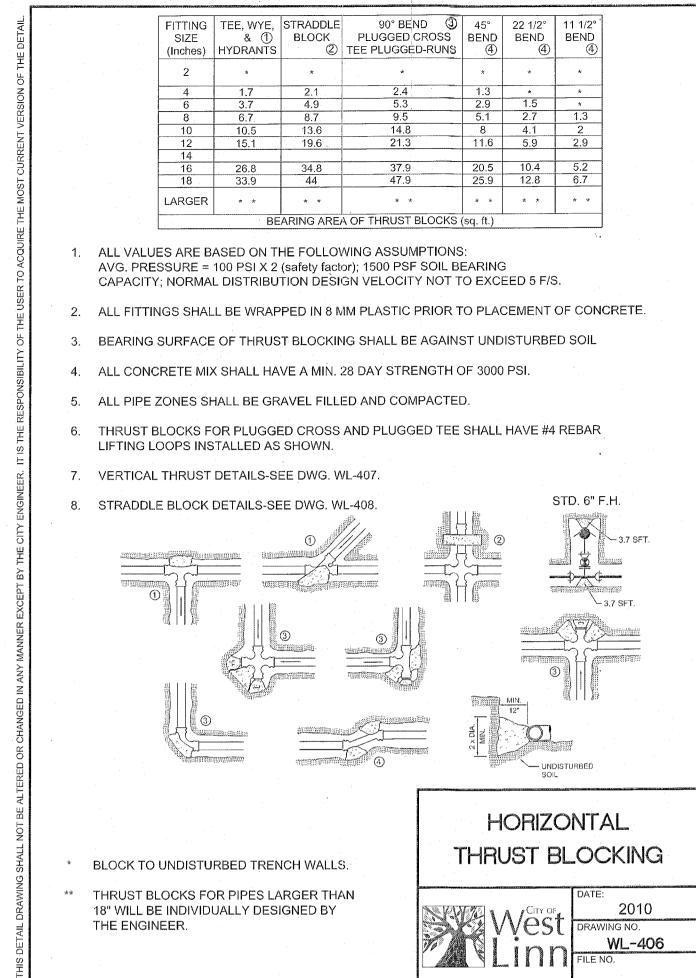
C301

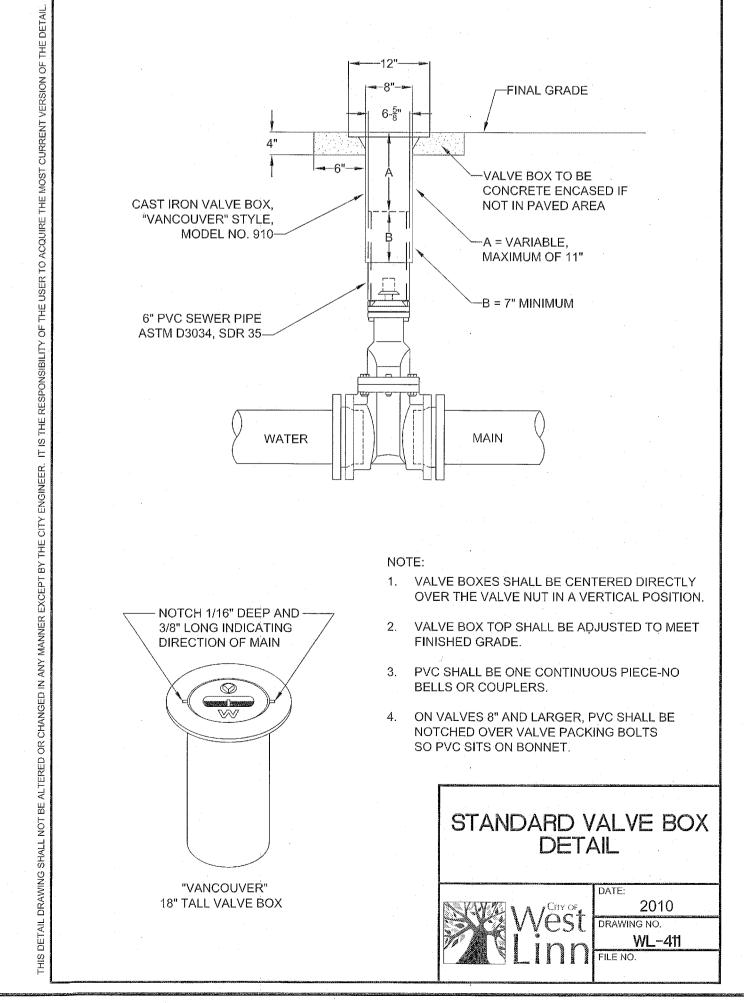
WL-216

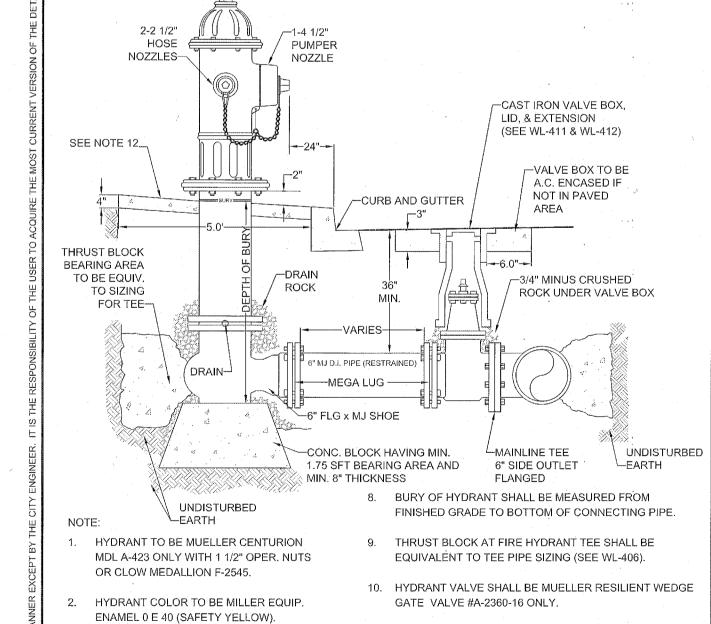


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3. JOINTS TO BE RESTRAINED BY 3/4" DIA.

BEHIND THE FACE OF THE CURB.

AS DIRECTED BY ENGINEER.

AND OPERATIONAL.

DRAIN OUTLETS.

GALVANIZED STEEL RODS AND THRUST

4. ALL FITTINGS IN CONTACT W/CONCRETE SHALL

BE WRAPPED IN PLASTIC, HYDRANT DRAIN

HOLES TO REMAIN OPEN TO DRAIN ROCK

5. MIN. 4 CFT OF 1 1/2" - 3/4" CLEAN DRAIN ROCK SHALL

6. WHERE PLANTER STRIP EXISTS, HYDRANT SHALL BE PLACED SO THE FRONT PORT IS A MINIMUM OF 24"

WHERE INTEGRAL S/W & CURB EXISTS, HYDRANT SHALL BE PLACED AT BACK OF THE SIDEWALK, OR

BE PLACED AROUND SHOE UP TO A MIN. OF 6" ABOVE

BLOCKS OR MEGALUGS AND THRUST BLOCKS.

11. NO EXTENSIONS ALLOWED

12. HYDRANT SHALL HAVE A 5' x5' x 4" THICK CONCRETE

FLANGED BOLT PATTERN OF THE HYDRANT.

13. CONCRETE SHALL BE COMMERCIALLY MIXED WITH A

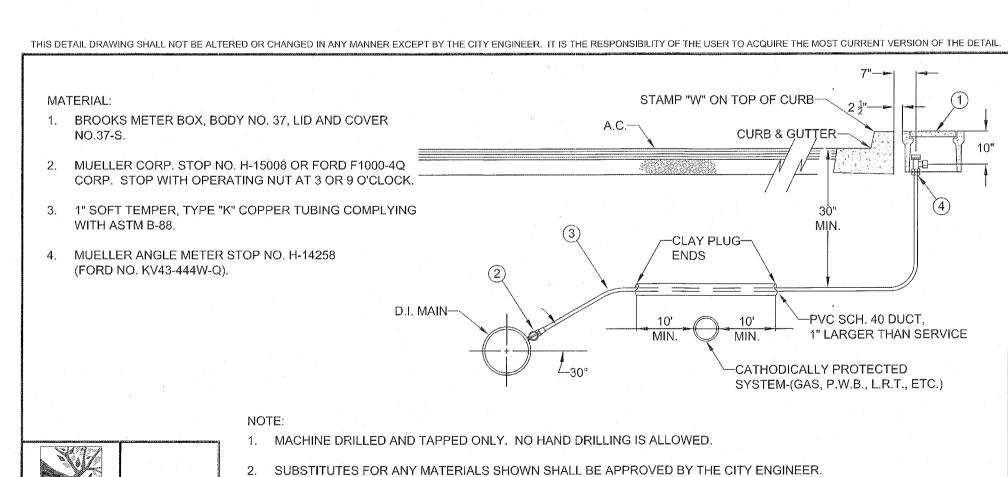
APRON. THERE SHALL BE 2" OF CLEARANCE BETWEEN

THE TOP OF THE APRON AND THE BOTTOM OF THE

BREAKING STRENGTH OF NOT LESS THAN 3000 PSI.

STANDARD FIRE HYDRANT

ASSEMBLY



STAND

3. ALL PIPE AND STRUCTURE ZONE SHALL BE BACKFILLED USING 3/4" MINUS CRUSHED AGG. AND COMPACTED TO 95% MAX DENSITY AS DETERMINED BY AASHTO T-180.

4. WHEN AN ACTIVE CATHODIC PROTECTED SYSTEM IS ENCOUNTERED, SCH. 40 PVC SHALL BE INSTALLED AS SHOWN ABOVE WITH CLAY PLUG.

METER BOX SHALL BE CENTERED OVER THE COMPLETED METER ASSEMBLY.

6. TAPS INTO MAIN TO HAVE 18" SEPARATION ON CENTER MINIMUM.

7. ANGLE METER STOPS TO BE 18" FROM PROPERTY LINE AND NOT IN DRIVEWAY APPROACH.

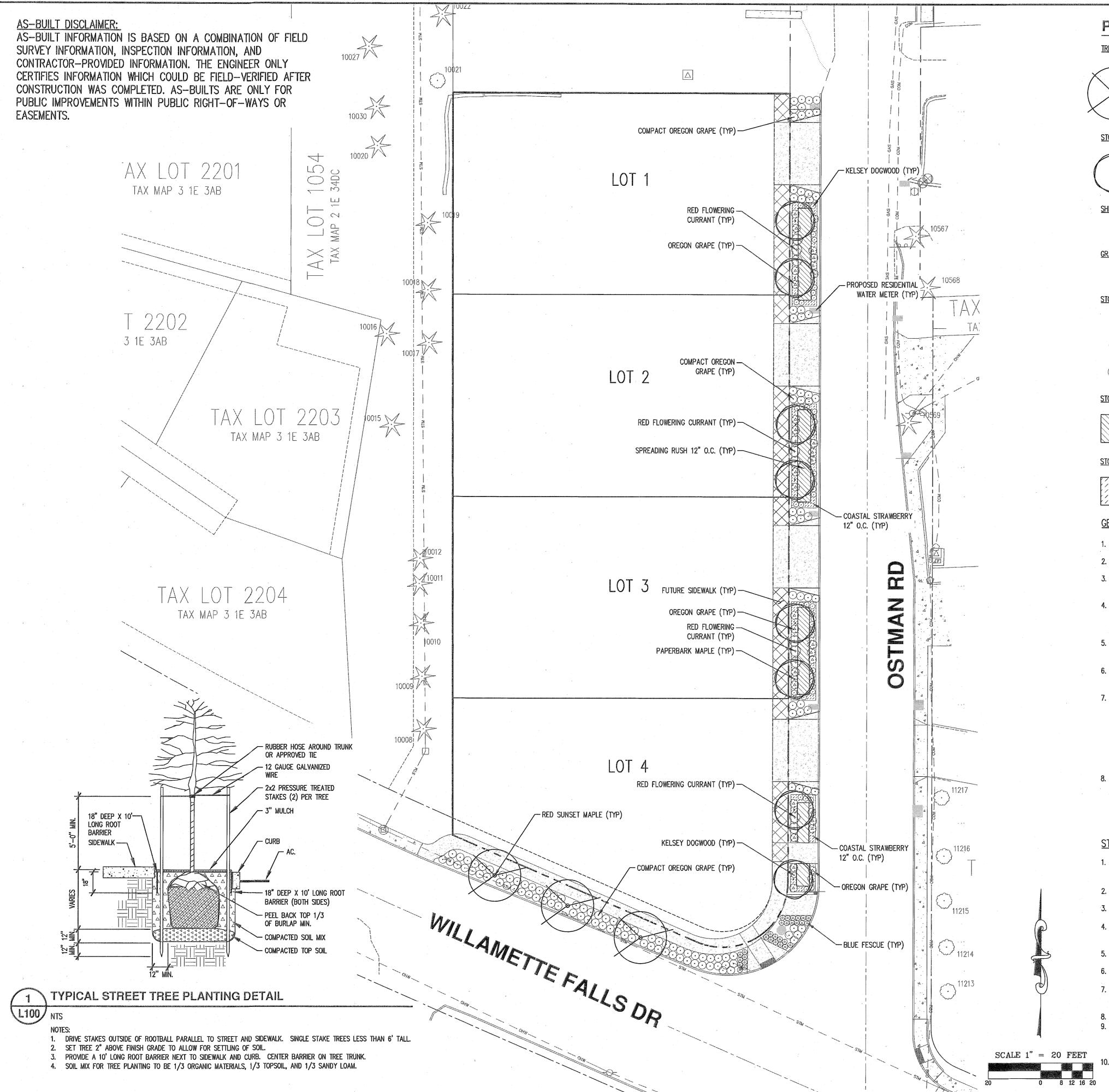
8. METER BOXES IN CURB TIGHT SIDEWALK AND THOSE SUBJECT TO INCIDENTAL AUTO TRAFFIC MUST HAVE METAL LIDS AND BE TRAFFIC RATED.

AS NOTED DATE: 2/9/2015



JOB NUMBER 3745

SHEET



PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME / COMMON NAME	SIZE/CONTAINER	<u>SPACING</u>
	3	ACER RUBRUM 'FRANKSRED' / RED SUNSET MAPLE	2" CAL. B&B	AS SHOWN
STORMWATER TREES	QTY	BOTANICAL NAME / COMMON NAME	SIZE/CONTAINER	SPACING
	8	ACER GRISEUM / PAPERBARK MAPLE	1.5" CAL. B&B	AS SHOWN
<u>SHRUBS</u>	QTY	BOTANICAL NAME / COMMON NAME	SIZE/CONTAINER	SPACING
\odot	128	MAHONIA AQUIFOLIUM 'COMPACTA' / COMPACT OREGON GRAPE	1 GAL CONT.	36" o.c.
<u>GRASSES</u>	QTY	BOTANICAL NAME / COMMON NAME	SIZE/CONTAINER	<u>SPACING</u>
(a)	30	FESTUCA GLAUCA / BLUE FESCUE	1 GAL CONT.	24" o.c.
STORMWATER SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	SIZE/CONTAINER	SPACING
· •	50	CORNUS SERICEA 'KELSEYI' / KELSEY DOGWOOD	1 GAL CONT.	24" o.c.
	32	MAHONIA AQUIFOLIUM / OREGON GRAPE	1 GAL CONT.	36" o.c.
(+)	11	RIBES SANGUINEUM / RED FLOWERING CURRANT	3 GAL CONT.	48" o.c.
STORMWATER HERBACEOUS PLANTS	QTY	BOTANICAL NAME / COMMON NAME	SIZE/CONTAINER	SPACING
	647	JUNCUS PATENS / SPREADING RUSH	1 GAL CONT.	12" o.c.
STORMWATER GROUNDCOVER	QTY	BOTANICAL NAME / COMMON NAME	SIZE/CONTAINER	<u>SPACING</u>
	601	FRAGARIA CHILOENSIS / COASTAL STRAWBERRY	1 GAL CONT.	12" o.c.

GENERAL NOTES:

- 1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PLANT QUANTITIES. IF DISCREPANCIES OCCUR, DESIGN INTENT PREVAILS OVER QUANTITIES.
- 2. ALL PLANTS AND PLANTINGS SHALL CONFORM TO CITY OF WEST LINN DESIGN STANDARDS AND TO AMERICAN NURSERY STANDARDS AS 1260.1.
- 3. REVISIONS OR SUBSTITUTIONS TO PLANTINGS, INCLUDING CHANGES TO LOCATION, QUANTITIES, SPECIES, SIZES, SPACING, ETC. DUE TO UNFORESEEN SITE CONDITIONS, PLANT AVAILABILITY, ETC. MAY BE MADE BY THE LANDSCAPE ARCHITECT WHERE ALLOWED BY CITY OF WEST LINN DESIGN STANDARDS, PRIOR TO FINAL INSTALLATION.
- 4. TREES TO BE PLANTED SHALL MEET THE REQUIREMENTS OF THE AMERICAN ASSOCIATION OF NURSERYMEN (AAN) STANDARDS FOR NURSERY STOCK (ANSI Z60.1) FOR GRADE NO. 1 OR BETTER. DOUBLE STAKE ALL TREES. PROVIDE ROOT BARRIERS WHERE ADJACEN TO HARD SURFACING, CURBS, SIDEWALKS, ETC. ROOT BARRIER SHALL BE A MINIMUM OF 18" DEEP BY 10' LONG. CENTER ROOT BARRIER ON TREE TRUNK.
- 5. CENTER TREES IN PLANTER STRIP WHERE NOT IN STORMWATER SWALES. KEEP SHRUBS AND GROUNDCOVERS A MINIMUM OF 24" O.C. FROM PAVING AND 3' O.C. FROM TREES. ADJUST PLANTINGS AS NECESSARY ON SITE TO AVOID CONFLICT WITH UTILITIES, HYDRANTS, LIGHT POLES, METERS, ETC.
- 6. MULCH: APPLY 3" DEEP WELL—AGED MEDIUM GRIND OR SHREDDED DARK HEMLOCK OR FIR BARK MULCH UNDER AND AROUND ALL PLANTINGS. CARE SHALL BE TAKEN TO AVOID COVERING FOLIAGE OR ROOT CROWN OF PLANTS WITH BARK MULCH.

 * SEE STORMWATER NOTES FOR BARK MULCH IN SWALES.
- 7. GROWING MEDIUM: GROWING MEDIUM IN ALL NEW PLANTING BEDS SHALL BE A MINIMUM OF 12" DEEP. EXISTING, NON-COMPACTED, NATIVE SOIL MAY COUNT TOWARDS THIS REQUIREMENT. REUSE SURFACE SOIL STOCKPILED ON THE SITE AND/OR IMPORT NEW TOPSOIL TO MAKE UP REQUIRED AMOUNTS FOR INSTALLATION. TOPSOIL SHALL BE FREE OF ROOTS, PLANTS, SOD, STONES, CLAY LUMPS, DEBRIS, ALKALI SALTS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH AND HAVE A MINIMUM OF 15%—30% ORGANIC MATERIAL CONTENT. SOIL PLACEMENT AND PLANTINGS SHALL OCCUR IN CONDITIONS THAT DO NOT RESULT IN OVER—COMPACTION OR EROSION, SATURATED SOIL OR OTHER CONDITIONS SUCH AS FREEZING OR ABOVE AVERAGE TEMPERATURES, RAINY CONDITIONS, ETC. SOIL SHALL BE IN FRIABLE (WORKABLE) CONDITION WHEN PLACED. FINISHED GRADE OF NEW PLANTING SHALL SEAMLESSLY MEET FINISH GRADE SET IN GRADING PLANS.

 * SEE STORMWATER NOTES FOR SOIL PREPARATION IN SWALES.
- 8. ALL PLANTING AREAS SHALL BE AUTOMATICALLY IRRIGATED USING THE LATEST IN WATER SAVING TECHNOLOGY (I.E. DRIP IRRIGATION, FOR PLANTING BEDS, EVAPOTRANSPIRATION (ET) CONTROL CLOCK, ETC.). LANDSCAPE CONTRACTOR TO 'DESIGN—BUILD' IRRIGATION SYSTEM AND SUBMIT PLANS TO CITY OF WEST LINN AND THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO BEGINNING INSTALLATION. COORDINATE POINT OF CONNECTION (POC), SLEEVING, AND CONTROL CLOCK LOCATION WITH GENERAL CONTRACTOR PRIOR TO PAVING AND OTHER HARD SURFACE CONSTRUCTION COMMENCEMENT.

 * SEE STORMWATER NOTES FOR IRRIGATION IN SWALES.

STORMWATER NOTES:

- ALL PLANTS AND PLANTINGS SHALL CONFORM TO THE CITY OF WEST LINN DESIGN STANDARDS AND BUREAU OF ENVIRONMENTAL SERVICES (BES) MANUAL. PLANT IN ACCORDANCE WITH STANDARDS ADOPTED BY THE OREGON LANDSCAPE CONTRACTORS BOARD (OLCR).
- 2. PLANTING SHALL OCCUR IN THE SPRING (MARCH) OR EARLY FALL (SEPTEMBER THROUGH OCTOBER) UNLESS SUPPLEMENTAL MEASURES ARE TAKEN TO ENSURE PLANT SURVIVAL.
- 3. HATCHED AREAS ARE MEANT TO PORTRAY GENERAL PLANT AREAS. PLANT AREA FOR FULL COVERAGE AT SPACING NOTED IN PLANT LEGEND. ADJUST PLANTINGS AS NECESSARY TO AVOID VAULTS, INLETS, ETC.
- 4. GROWING MEDIUM: 18" DEEP; IMPORTED SOIL, SANDY LOAM MIXED WITH PLANT DERIVED COMPOST OR SAND/SOIL/COMPOST BLEND IN ACCORDANCE WITH BUREAU OF ENVIRONMENTAL SERVICES (BES) STANDARDS. GROWING MEDIUM SHALL BE APPROXIMATELY ONE—THIRD COMPOST BY VOLUME, FREE—DRAINING, AND SUPPORT PLANT GROWIH. COMPOST SHALL BE ENTIRELY PLANT DERIVED.
- SOIL PLACEMENT AND PLANTING SHALL OCCUR IN CONDITIONS THAT DO NOT RESULT IN OVER-COMPACTION OR EROSION, SATURATED
- SOIL OR OTHER CONDITIONS SUCH AS FREEZING OR ABOVE AVERAGE TEMPERATURES, RAINY CONDITIONS, ETC.
 INVASIVE PLANT MATERIAL, INCLUDING HIMALAYAN BLACKBERRY, THISTLE SPECIES, ETC. SHALL BE REMOVED ENTIRELY FROM THE
- 5. INVASIVE PLANT MATERIAL, INCLUDING HIMALAYAN BLACKBERRY, THISTLE SPECIES, ETC. SHALL BE REMOVED ENTIRELY FROM THE STORMWATER SWALES BEFORE PLANTING IF PRESENT. REMOVE INVASIVE VEGETATION IN ACCORDANCE WITH BES STANDARDS.

 7. MULCH: APPLY 3" DEEP FINE TO MEDIUM HEMLOCK MULCH OR WELL—AGED ORGANIC YARD DEBRIS COMPOST LINDER AND AROUND A
- 7. MULCH: APPLY 3" DEEP FINE TO MEDIUM HEMLOCK MULCH OR WELL—AGED ORGANIC YARD DEBRIS COMPOST UNDER AND AROUND ALL PLANTINGS IN ZONE 'B' (DRY ZONE) ONLY. CARE SHALL BE TAKEN TO AVOID PLACING MULCH IN ZONE 'A' (WET ZONE), IN A STORMWATER FLOW PATH, OR IN AREAS WHERE IT MAY CLOG INLETS OR OUTLETS OR ESCAPE THE SWALES.

 8. MANURE MULCHING AND HIGH—FERTILIZER HYDROSEEDING SHALL BE PROHIBITED IN THE SWALES DURING AND AFTER CONSTRUCTION.
- IRRIGATION: CONTRACTOR SHALL PROVIDE A TEMPORARY 'DESIGN—BUILD' IRRIGATION SYSTEM FOR THE STORMWATER SWALES.
 TEMPORARY IRRIGATION SYSTEM SHALL MEET ALL CITY OF WEST LINN STANDARDS AND INCLUDE ALL NECESSARY COMPONENTS, CONTROL VALVES, DOUBLE CHECKVALVES, ETC. NECESSARY FOR FULL COVERAGE. IRRIGATION SYSTEM SHALL BE REMOVED AT THE END OF TWO--YEARS OR PLANT ESTABLISHMENT, WHICHEVER IS LONGER. COORDINATE WITH GENERAL CONTRACTOR AND/OR OWNER.
 MAINTENANCE WARRANTY PERIOD: MAINTENANCE WARRANTY PERIOD SHALL BE PROVIDED BY THE LANDSCAPE CONTRACTOR FOR A PERIOD OF 2—YEARS AFTER DATE OF COMPLETION. REGULAR MAINTENANCE TASKS SHALL BE PERFORMED IN ACCORDANCE WITH INDUSTRY STANDARDS. THESE TASKS MAY INCLUDE, BUT ARE NOT LIMITED TO, REMOVAL OF UNDESIRABLE WEEDS OR INVASIVE VEGETATION, PRUNING, MULCHING, PLANT REPLACEMENT, AND IRRIGATION SYSTEM REPAIR.

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DESIGNED BY: KAH/TEB

DRAWN BY: SKW/TEB

CHECKED BY: KAH

SCALE: AS NOTED

DATE: 2/9/2015

DATE: 2/9/2015

STEP
797

KIRSTI A. HAUSWALD FOREGON
06/06/13

REVISIONS

JOB NUMBER 3745

SHEET L 100