CITY OF WOODBURN

COMMUNITY DEVELOPMENT

MEMORANDUM

270 Montgomery Street Woodburn, Oregon 97071 Phone (503) 982-5246 Fax (503) 982-5244

Date: October 5, 2020

To: Dago Garcia, P.E., City Engineer

Cc: Chris Kerr, AICP, Community Development Director

Roy Hankins, PE, Emerio Design

From: Colin Cortes, AICP, CNU-A, Senior Planner

Subject: **Planning Division review comments on 2nd submittal / 1st re-submittal Sept. 18 of civil engineering plans for Smith Creek Development Ph. 3B**

Summary

Planning Division requests revisions and re-submittal by the applicant and affirms that the Public Works Department is not to approve civil engineering plans until Planning outstanding items are resolved.

Revisions

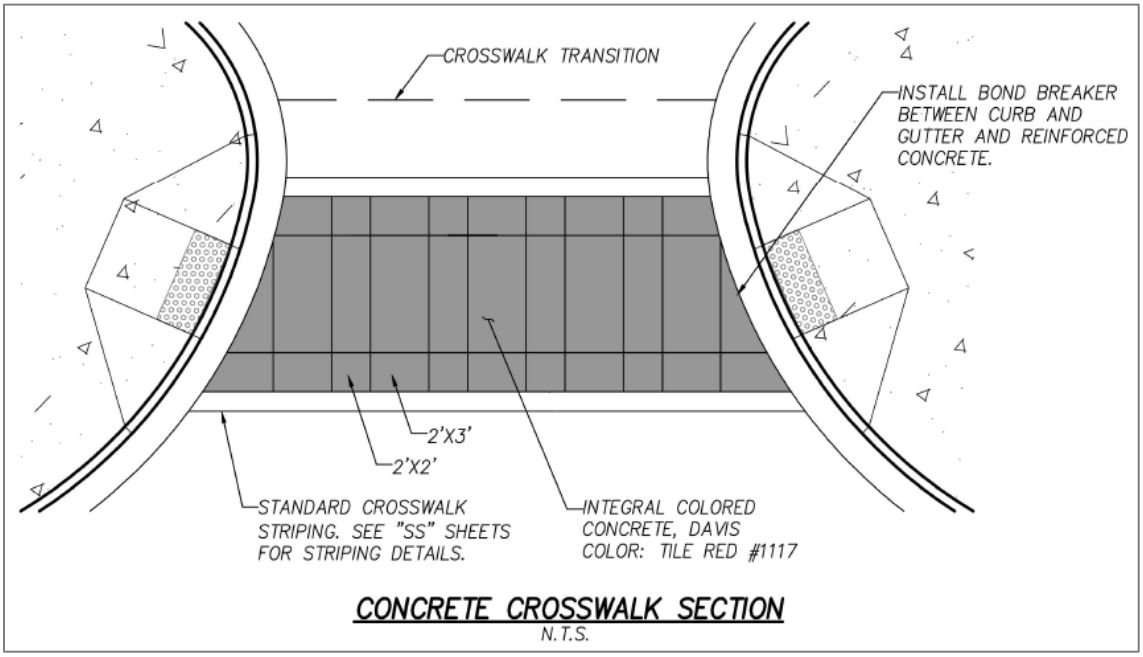
The applicant needs to revise or clarify as follows below. Italicized letter items quote from the first Planning review memo (June 8, 2020).

A. *Crosswalk treatments:*
Sheet 3: Stamped concrete crosswalks typical section; and
Sheet 16: Curb return details 7, 9, 10, & 12:

The information is too vague to indicate pavement stamping/treatment, color, and pattern in conformance to the attached excerpted memo I'd sent Stafford Land Co. in August 2019 in response to a request to staff to direct on these topics when the issue first arose for Smith Creek through Phase 1A civil engineering plans.

Revise at least Sheet 3 to indicate conformance with the memo by providing any of notes, diagrams, and images. The excerpted memo is Attachment 1.

Sheet 3 is revised with a crosswalk plan detail of color and pattern:



Colors

The detail shows for crosswalk not Davis Colors 160 Brick Red, but Davis Colors 1117 Tile Red, which is a minor modification that staff notices and hereby accepts:

Brick Red 160

Tile Red 1117

However, the detail doesn't fully conform to the Planning staff memo dated August 23, 2019 sent to the City Engineer and cc'd to both Morgan Will of Stafford Land Co. and the applicant civil engineer, Roy Hanks, PE, of Emerio Design. It's re-attached. Though this memo was for Planning staff Phase 1A civil engineering plans review, the staff memo dated June 8, 2020 for Planning staff Phase 3B civil engineering plans review (original submittal) confirmed that the standards established for 1A apply also to later phases and attached the August 23, 2019

memo and its Attachments 1C & 1P. This memo too is re-attached. Together they establish a specification – what is "patterned?" – regarding administration of Condition of Approval PUD-10 (Smith Creek Development Final Order, p. 58).

Attachment 1C of the August 23, 2019 memo specified three colors from among the developer's proposed palette. A cropped image of the attachment is below:

	Trail Crossings (Mainline and North)	*Path/Other Crossing Legs*	*Middle of Treated Intersections*
Pattern	Any one choice among:	Any one choice among:	Any one choice among:
	Cut Stone Cobble	Herringbone Paver	Herringbone Paver
	Old Cobble Stone	Herringbone Used Brick	European Cobble Curved Tool
	Hexagon Italian Slate	Running Bond Used Brick	Radius Cobble Stone
Dye Color	Willow Green 5376	Brick Red 160	Harvest Gold 5084

Other crossings: The revised Sheet 3 lacks indication of Mill Creek Greenway Trail crossings of streets being Willow Green 5376 and the middle of the intersections to be treated being Harvest Gold 5084. Both are vendor options also for concrete pigmentation per www.daviscolors.com/concrete-colors/:

Willow Green 5376

Harvest Gold 5084

Revise Sheet 3 accordingly.

Staff confirms that staff through the memo selected and approved these colors from the palette proposed by the developer, Stafford Land Co.

Patterns: The pattern does not match any of the approved patterns. Thumbnail views of Attachment 1P are below:

Revise Sheets 3 & 16 accordingly.

Staff confirms that staff through the memo selected and approved these patterns from the palette proposed by the developer, Stafford Land Co.

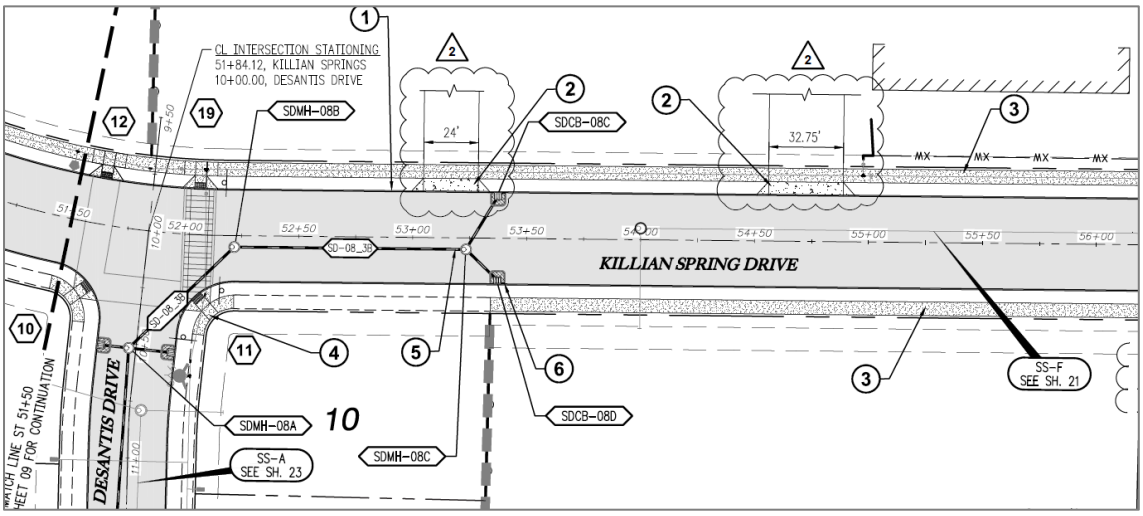
B. *Easement for Killian Spring Drive on church property:* n/a. Staff acknowledges receipt via Public Works of a copy of the road and utility easement recorded January 16, 2018 as Marion County Reel 4036, Page 294 with Area 1 (future ROW) and Area 2 (future remainder 5-ft wide public utility easement [PUE]) description consistent with Smith Creek Development land use review Exhibit P [Killian Spring Parkway].

C. *ROW for Killian Spring on school property:* n/a. The west dashed gray line is removed. (Planning staff notes that it thought the developer would then symbolize and label the west boundary of ROW as black solid line. Also, the developer removed the east gray dashed line symbolizing tentative ROW from the church property to the east, which Planning hadn't requested because that symbol served its purpose. Planning staff has no request for further edits regarding this item because City ROW is primarily a Public Works responsibility, and if the drawing is good enough for Public Works staff regarding this item, it's good enough for Planning staff.)

D. *Driveway:*
Sheets 10, 20, & 25:
The sheets that show driveway context are missing one of two driveways along Killian Spring Drive on the Nellie Muir E.S. property. They show the north one, but not the south one.

Per the CU 2019-05 civil plans Sheets C2.00 & C2.02 (Attachment 3) there are two drive aisles that, as the City and the school district plan, will be truncated with two driveways upon construction of Killian Spring Drive upon, which would remove the allowed, now-interim private improvements within the 20-ft ROW that the district dedicated. …

There was an oversight. Yes, the plans are revised to show both driveways; however, the problem is that the north driveway is proposed at 32.75 ft width, the same as the drive aisle that would remain.



Sheet 10 excerpt; note that north is to the right.

However, [Woodburn Development Ordinance (WDO)] Table 3.04A, row "paved width of driveway" and column "5 or More Dwelling …, School …" indicates driveway widths of 24 minimum and 30 maximum.

Revise on Sheets 10 & 26 the driveway approach / apron / curb cut and dimension label to conform; staff recommends 24 ft, the same as is the south driveway.

E. *(Note: This item is optional.) Killian common area street trees: … 1:30 …* n/a.

➔ New Item F. Cover letter: The submittal failed per the "Next Steps" concluding section in the last review memo to "include a dated cover letter to my attention referencing the civil engineering plans file number (if any), re-submittal date, project name, and phase, citing each revision item by letter/number, and for each item directing staff to the applicable and specific plan sheet or document and page number."

Next Steps:

Planning Division requests revisions and re-submittal by the applicant and affirms that the Public Works Department is not to approve civil engineering plan until Planning outstanding items are resolved.

The applicant will include a dated cover letter to my attention referencing the civil engineering plans file number (if any), re-submittal date, project name, and phase, citing each revision item by letter/number, and for each item directing staff to the applicable and specific plan sheet or document and page number.

When you receive a 2nd submittal / 1st revised submittal, please notify me and provide a PDF and print copy of the materials and specify a desired due date for review comments.

Feel free to contact me at (503) 980-2485 or <colin.cortes@ci.woodburn.or.us>.

Attachment(s):

1. Specified colors and patterns: June 8, 2019 memo and its Attachments 1[C] & 1P (9 pages)
2. Cover letter to City Engineer regarding Public Works outstanding items (dated Sept. 17, 2020)
3. Civil engineering plan set (original submittal, Sept. 18, 2020; 32 sheets)

CITY OF WOODBURN

COMMUNITY DEVELOPMENT

MEMORANDUM

270 Montgomery Street Woodburn, Oregon 97071 Phone (503) 982-5246 Fax (503) 982-5244

Date: June 8, 2020

To: Dago Garcia, P.E., City Engineer

Cc: Chris Kerr, AICP, Community Development Director

Roy Hankins, PE, Emerio Design

From: Colin Cortes, AICP, CNU-A, Senior Planner

Subject: **Planning Division review comments on original / 1st submittal of civil engineering plans for Smith Creek Development Phase 3B**

Summary

Planning Division requests revisions and re-submittal by the applicant.

Revisions

The applicant needs to revise or clarify as follows:

A. Crosswalk treatments:
Sheet 3: Stamped concrete crosswalks typical section; and
Sheet 16: Curb return details 7, 9, 10, & 12:

The information is too vague to indicate pavement stamping/treatment, color, and pattern in conformance to the attached excerpted memo I'd sent Stafford Land Co. in August 2019 in response to a request to staff to direct on these topics when the issue first arose for Smith Creek through Phase 1A civil engineering plans.

Revise at least Sheet 3 to indicate conformance with the memo by providing any of notes, diagrams, and images. The excerpted memo is Attachment 1.

B. Easement for Killian Spring Drive on church property:
Sheet 4:
I recall that in the last two to three years Morgan Will of Stafford mentioned that St. Mary's Episcopal Church (1560 W. Hayes St; Tax Lot 051W07CC07100) had granted an easement on its property for its 46-ft wide portion of Killian Spring Drive. Additionally, Smith Creek Development Exhibit P (2018; Attachment 2) labeled "46' ROW deeded & 5' PUE granted".

However, I see no indication in City GIS or on the County tax map. (I know a tax map isn't a plat or survey, but tax maps delineate and label some easements.)

Also – and most important – the applicant having submitted Phase 3B civil engineering plans assumes that construction can meet Smith Creek Development Final Order Condition T-A3 because the applicant acquired some legal right to build Killian Spring where it overlaps the church property.

If there isn't such easement, confirm and explain in a note on Sheet 4 and explain how the applicant would resolve the situation to meet the condition; if there is such easement or other legal mechanism allowing for Killian Spring to overlap the church property, revise Sheet 4 with a note or notes – including reference to the Marion County reel/volume and page numbers – to indicate and revise the drawing to delineate the extent of territory that the easement or legal mechanism covers. Also provide a copy of the recorded document.

C. ROW for Killian Spring on school property:
Sheet 4:
I understand that the Woodburn School District dedicated ROW to the City for the school portion of Killian Spring Drive: 20 ft wide plus curvature at the intersection with W. Hayes Street per the Exhibit P, as well as a public utility easement (PUE), as a result of Conditional Use CU 2019-05 final decision Condition C1a.

Revise the bold dark gray dashed line, which suggests a tentative state, for the west side of tentative Killian Spring to indicate that ROW and PUE already exist.

D. Driveway:
Sheets 10, 20, & 25:
The sheets that show driveway context are missing one of two driveways along Killian Spring Drive on the Nellie Muir E.S. property. They show the north one, but not the south one.

Per the CU 2019-05 civil plans Sheets C2.00 & C2.02 (Attachment 3) there are two drive aisles that, as the City and the school district plan, will be truncated with two driveways upon construction of Killian Spring Drive upon, which would remove the allowed, now-interim private improvements within the 20-ft ROW that the district dedicated.

Because it makes perfect sense to build Killian Spring once incorporating driveway approaches / aprons / curb cuts as planned, revise at least Sheet 10 to illustrate and note the south driveway along with the north one and Sheet 20 to illustrate the south driveway along with the north one.

Revise Sheet 25 (street tree plan) to account for displacement by the south driveway of a tree or trees. (Note: There appears to be room to the north, and trees are permissible above vision clearance area if planted and pruned 7 ft above grade per Woodburn Development Ordinance 3.03.06C.1.)

E. (Note: This item is optional.) Killian common area street trees:
Along the Killian frontage of the common area tracts next to and south of Nellie Muir E.S., where there would be no driveways, staff kindly requests additional street trees equaling 1:30 average instead of 1:50 average.

Next Steps:

The applicant will include a dated cover letter to my attention referencing the civil engineering plans file number (if any), re-submittal date, project name, and phase, citing each revision item by letter/number, and for each item directing staff to the applicable and specific plan sheet or document and page number.

When you receive a 2nd submittal / 1st revised submittal, please notify me and provide a PDF and print copy of the materials and specify a desired due date for review comments.

Attachment(s):

1. Specified colors and patterns: Excerpt of Aug. 23, 2019 memo and its Attachment 1C (6 pages)
2. Smith Creek Development Exhibit P [Killian Spring] (2018)
3. Nellie Muir E.S. CU 2019-05 Sheets C2.00 & C2.02 (2019)
4. Civil engineering plan set (original submittal, April 13, 2020; 31 sheets)

Feel free to contact me at 503-980-2485 or <colin.cortes@ci.woodburn.or.us>.

CITY OF WOODBURN

COMMUNITY DEVELOPMENT

MEMORANDUM

270 Montgomery Street Woodburn, Oregon 97071 Phone (503) 982-5246 Fax (503) 982-5244

Date: August 23, 2019

To: Dago Garcia, P.E., City Engineer

Cc: Chris Kerr, AICP, Community Development Director
Eric Liljequist, P.E., Public Works Director
Morgan Will, Development Manager, Stafford Land Co.
Roy Hankins, PE, Emerio Design

From: Colin Cortes, AICP, CNU-A, Senior Planner CC

Subject: **Planning Division comments on civil engineering plans third submittal for Smith Creek Development Phase 1A at 690 Ben Brown Ln (Tax Lot 052W13 00106)**

Summary

Planning Division staff reviewed the copy of the civil engineering plans that Stafford Land Co. submitted to Public Works in June 2019 as third submittal. Planning and Public Works staff met August 22 to discuss a draft response and determine that the plans remain in need of additional information and revisions.

Staff added lettering in brackets to distinguish each item.

What follows is a list of needed revisions and additional information. Provide a cover or transmittal letter identifying the specific sheet number or numbers that contain the revisions addressing each item.

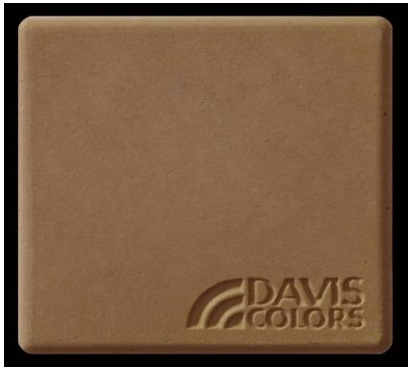
The legend for table symbols is as follows:

✔	No longer an outstanding item
⊘	Dropped by staff and no longer an issue
✘	Outstanding item
☞	Deferral and/or Contextual info

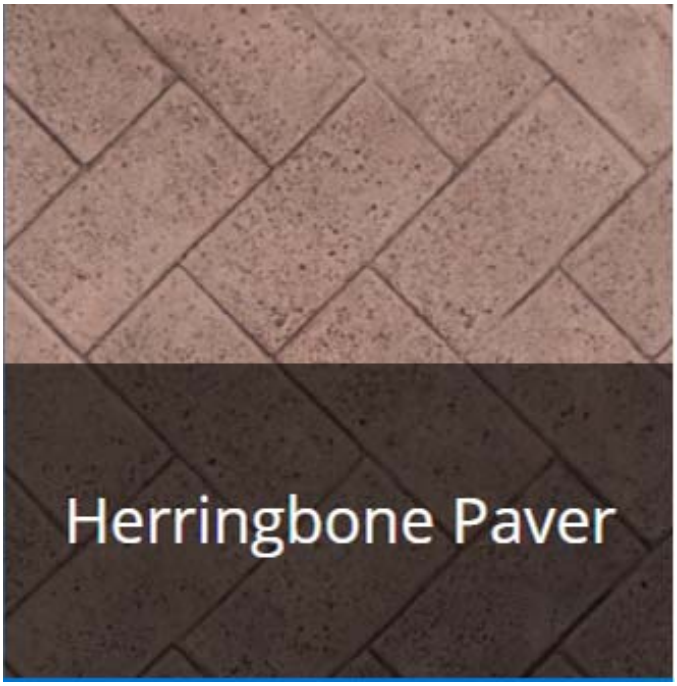
Planning Division Comments

Items	*[May 2019 First Submittal] Comments*	*Conditions/Notes*	*Applicant Narrative Response June 2019*	*Staff Response*
[A] City stormwater tract	The divisions need civil engineering plans for the City stormwater tract along as well as those of Phase 1A for Planning Division holistic review and comparison with the final order conditions of approval. For example, the tract civil plans would address among other items deferred from grading permit GRAD 2019-03 incompleteness Item T and its table. (Planning has yet to receive a written response to the GRAD incompleteness letter.)	Various including PUD-4 (p. 54) & T-BP2 (p. 62)	*Civil engineering plans for planned improvements in the City's Tax Lot 4100 were submitted to public works by separate application. The trail shown on those plans meets the standards under COA PUD-4 (b.1-3.) and COA T-BP2. See response letter provided for Grading Permit 2018-03.*	✔ Receipt of civil engineering plans for the City stormwater tract acknowledged. See August 13 memo.
[B] Scale	Scale: Staff received ledger (11 x 17 inch) copies. The cover sheet notes that, "These plans are full sized on 22"x 34" paper, if 11"x17" scale accordingly". Staff needs plan size (24 x 36 inch) copies to be able to scale items at the native scale of the drawings. Submit at least (3) three copies for Planning.	n/a	*These civil plans were submitted as required by Public Works staff as review copies. Full size plans will be submitted for final stamped approval when requested by Public Works staff.*	⊘ Dropped.
[C] Treatments	Provide details regarding the treated crossings and intersections and the speed tables. • What are the materials, dye(s)/color(s), and pattern(s) of the treatments? Provide Ben Brown (BB) & Kirskey, S/SW leg with the conditioned treated crosswalk. • What are the speed table treatments, heights and ramp slopes and extents? • Revise sheets including Sheet 36 Details 23 & 26.	PUD-10 (p. 58)	*The Applicant's engineer has provided the City Engineer in a 2nd Phase 1A plan submittal with specifics on crossing treatments for engineering review and determination if treatments will meet with City standards and ADA standards, or need to be modified accordingly. Upon planning review of City Engineer improved plans the Applicant seeks confirmation that the plans are substantially conforming to the intent of the crossing treatments as all preliminary elements proposed by the applicant may not be approved for final construction by the City Engineer exactly.*	✘ No sheet appears to identify speed table heights and ramp slopes. Provide a specific plan sheet for this topic of treatments and revise the plan cover sheet drawing index to list this sheet. ☞ Thank you for the color and stamped pattern vendor catalog information submitted in May. In response, see **Attachments 1C & 1P** for the specified colors and to choose from among the small palette of patterns established by staff.
[D] Curb ramps: number	Certain intersections are missing curb ramps: • [1] Ben Brown (BB) & Simon, NW [Sheet 11] • [2] BB & Stoller, NW [Sheet 11] • ~~BB & Killian Spring (KS), E/NE~~ Staff error: correct to "BB & Kirksey St, E/NE (Sheet 12)" • [3] BB & Thomas, SW [Sheet 12] • [4] BB & Mattson, SW [Sheet 12] • [5] Ostrom &Thomas, SW [Sheet 12]	Oregon Revised Statutes (ORS) 801.220 and in turn 810.200 and 801.320, i.e. every intersection leg is a crosswalk and so T-intersections need	*The number and location of curb ramps will be as shown on plans and as approved with the application to avoid conflicts with approved private driveways from approve lots.*	✘ *Number and placements:* Why would public infrastructure, particularly ADA curb ramps, be designed to subordinate to private improvements that don't exist? Is staff in error applying statute? The Smith Creek Exhibit C-8 series submitted as part of the land use approval did not mean the

	Trail Crossings (Mainline and North)	*Path/Other Crossing Legs*	*Middle of Treated Intersections*
Pattern	Any one choice among:	Any one choice among:	Any one choice among:
	Cut Stone Cobble	Herringbone Paver	Herringbone Paver
	Old Cobble Stone	Herringbone Used Brick	European Cobble Curved Tool
	Hexagon Italian Slate	Running Bond Used Brick	Radius Cobble Stone
Dye Color	Willow Green 5376	Brick Red 160	Harvest Gold 5084



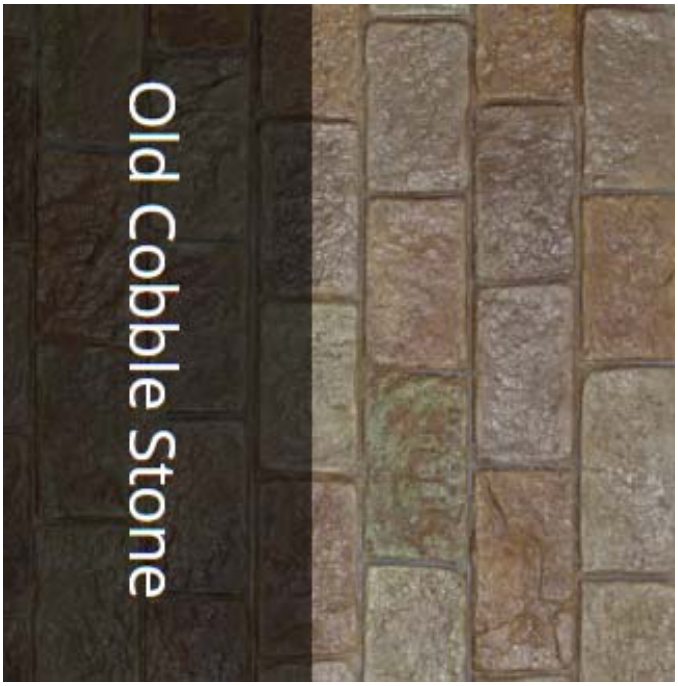
Attachment 1P


Herringbone Paver


Herringbone Used Brick


Running Bond Used Brick


Cut Stone Cobble


Old Cobble Stone

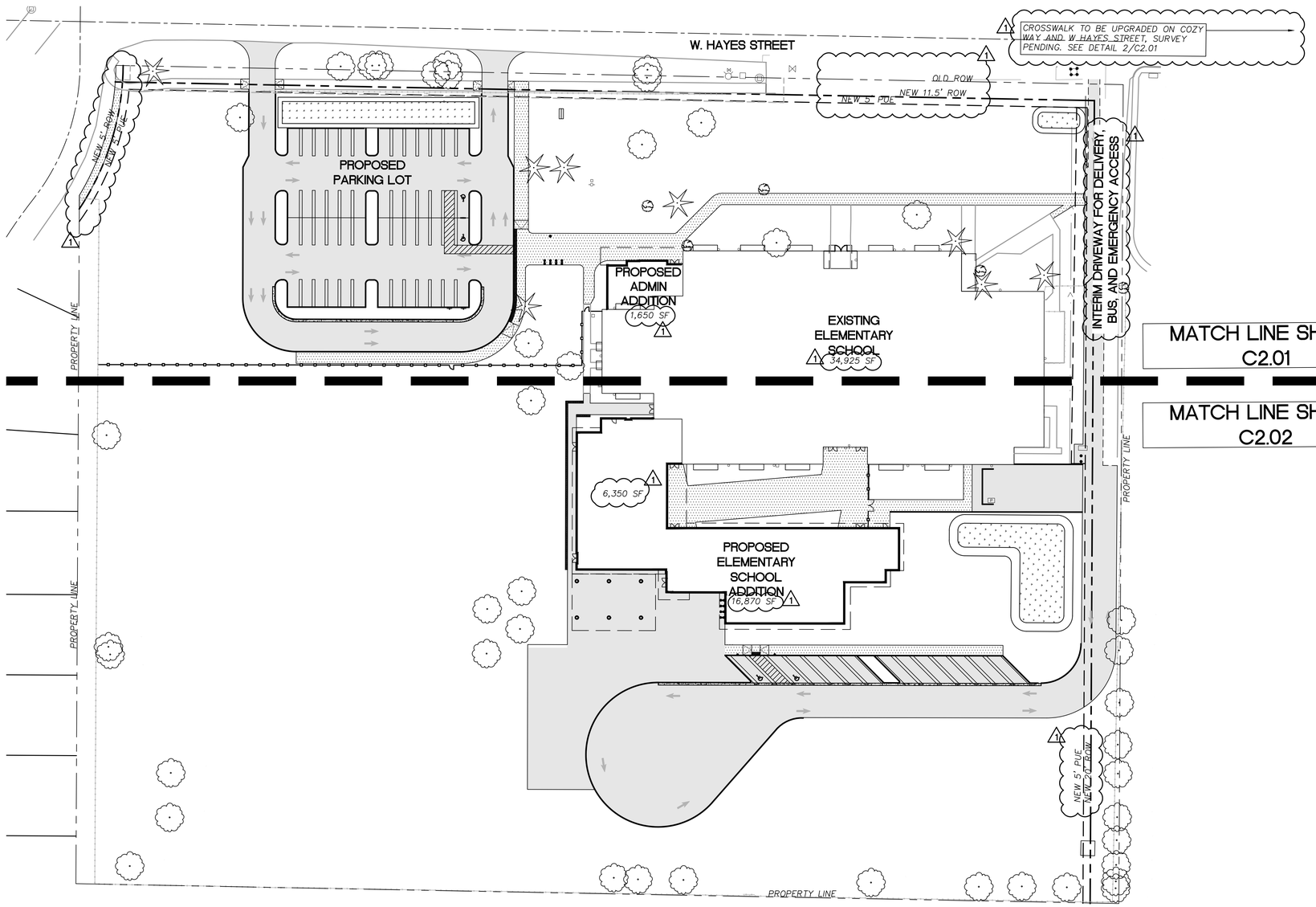

Hexagon Italian Slate

SHEET NOTES

1. KILLIAN SPRINGS DRIVE TO BE DEVELOPED PER CITY OF WOODBURN STANDARDS AT THE TIME OF FUTURE SMITH CREEK DEVELOPMENT. AN INTERIM DRIVEWAY WILL SERVE THE SCHOOL FOR DELIVERY, BUS, AND EMERGENCY ACCESS.

SHEET LEGEND

	CONCRETE SIDEWALK	7 / C5.00
	ASPHALT PAVEMENT	11 / C5.00
	STORMWATER PLANTER	1,2 / C5.01
	STANDARD CONCRETE CURB	8 / C5.00
L	LANDSCAPING	SEE LANDSCAPE PLANS
	SAWCUT	
	CURB TAPER	9 / C5.00
	CURB SCUPPER	10 / C5.00



MATCH LINE SHEET C2.01

MATCH LINE SHEET C2.02

1 LAYOUT AND PAVING PLAN - OVERALL
1"=40'

GRAPHIC SCALE
0 40 80
1 inch = 40 ft.

Humber Design Group, Inc.
Portland, OR ▪ 503.946.6690 ▪ hdgpdx.com

DRAWING REVISIONS

1	08/21/2019	LAND USE REVISION 1

LAND USE REVIEW SET

NELLIE MUIR ELEMENTARY SCHOOL

WOODBURN SCHOOL DISTRICT

BLRB architects

TACOMA: 1250 Pacific Avenue Suite 700 Washington 98402 253.627.5995
SPOKANE: 505 W Riverside Suite 500 Washington 99201 509.252.5080
PORTLAND: 1001 SW 5th Avenue Suite 1100 Oregon 97204 503.535.0707
BEND: 404 SW Columbia Suite 200 Oregon 97702 541.330.6506
BLRB.com

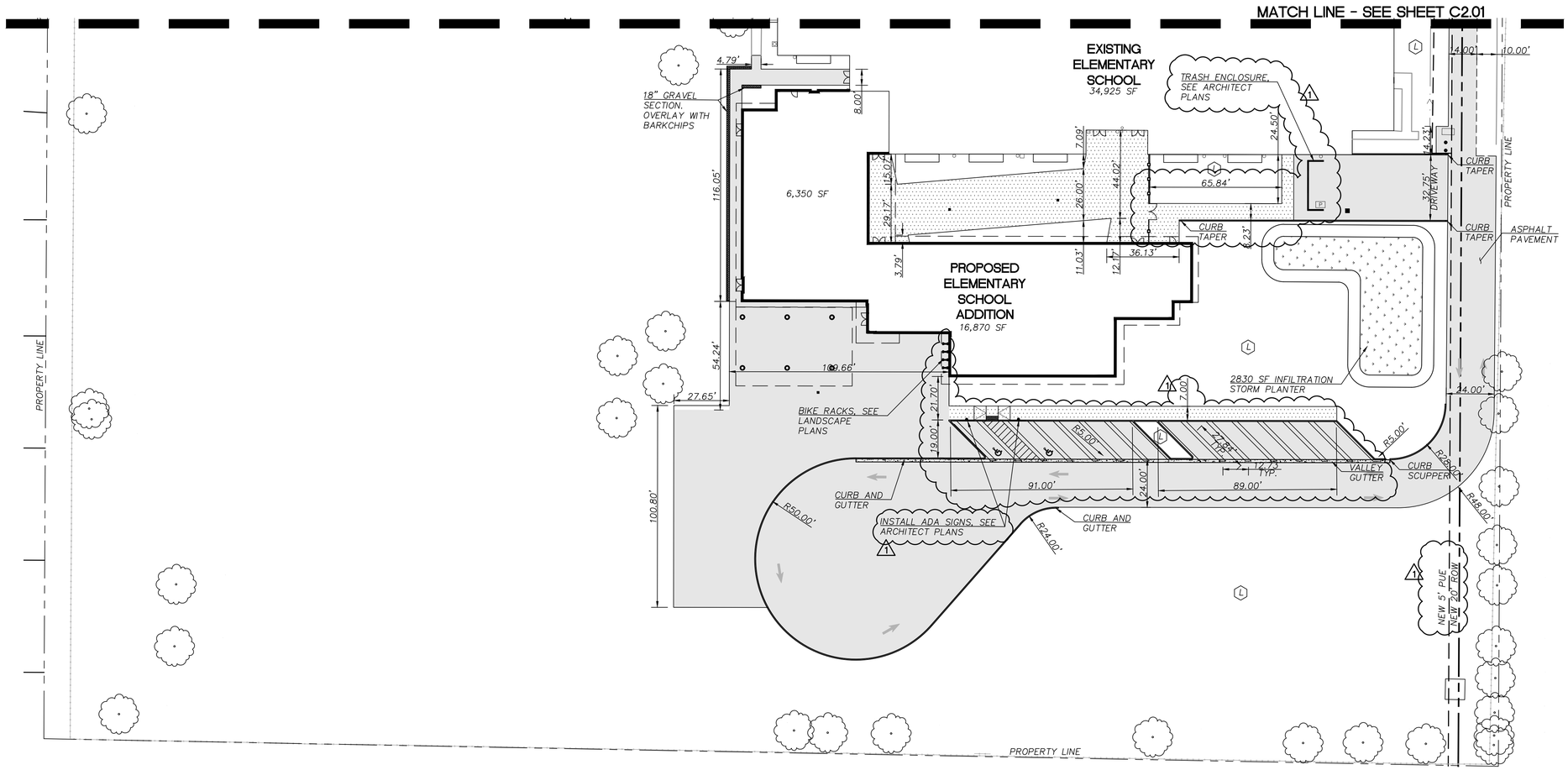
Drawing Title:

LAYOUT AND PAVING PLAN OVERALL

Date : 06/21/2019	Drawn By : MWH/RXN/ACX
Revised : 08/21/2019	Project No. 1748P
Stamp: PRELIMINARY - NOT FOR CONSTRUCTION	Sheet No. Attachment 3 Sheet 1 of 2 — C2.00

BLRB ARCHITECTS, P.S.

11/15/2006 1:40:30 PM



1 LAYOUT AND PAVING PLAN - SOUTH
1"=20'

GRAPHIC SCALE
0 20 40
1 inch = 20 ft.

SHEET LEGEND

	CONCRETE SIDEWALK	7 C5.00
	ASPHALT PAVEMENT	11 C5.00
	STORMWATER PLANTER	1,2 C5.01
	STANDARD CONCRETE CURB	8 C5.00
L	LANDSCAPING	SEE LANDSCAPE PLANS
	SAWCUT	
	CURB TAPER	9 C5.00
	CURB SCUPPER	10 C5.00

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Portland, OR ▪ 503.946.6690 ▪ hdgpdx.com

DRAWING REVISIONS

1	08/21/2019	LAND USE REVISION 1

LAND USE REVIEW SET

NELLIE MUIR ELEMENTARY SCHOOL

WOODBURN SCHOOL DISTRICT

BLRB architects
TACOMA | SPOKANE | PORTLAND | BEND
1250 Pacific Avenue Suite 700 Washington 98402 253.627.5599
505 W Riverside Suite 500 Washington 99201 509.252.5080
1001 SW 5th Avenue Suite 1100 Oregon 97204 503.535.0707
404 SW Columbia Suite 200 Oregon 97702 541.330.6506
BLRB.com

Drawing Title:

LAYOUT AND PAVING PLAN SOUTH

Date : 06/21/2019	Drawn By : MWH/RXN/ACX
Revised : 08/21/2019	Project No. 1748P
Stamp: PRELIMINARY - NOT FOR CONSTRUCTION	Sheet No. Attachment 3 Sheet 2 of 2 of C2.02

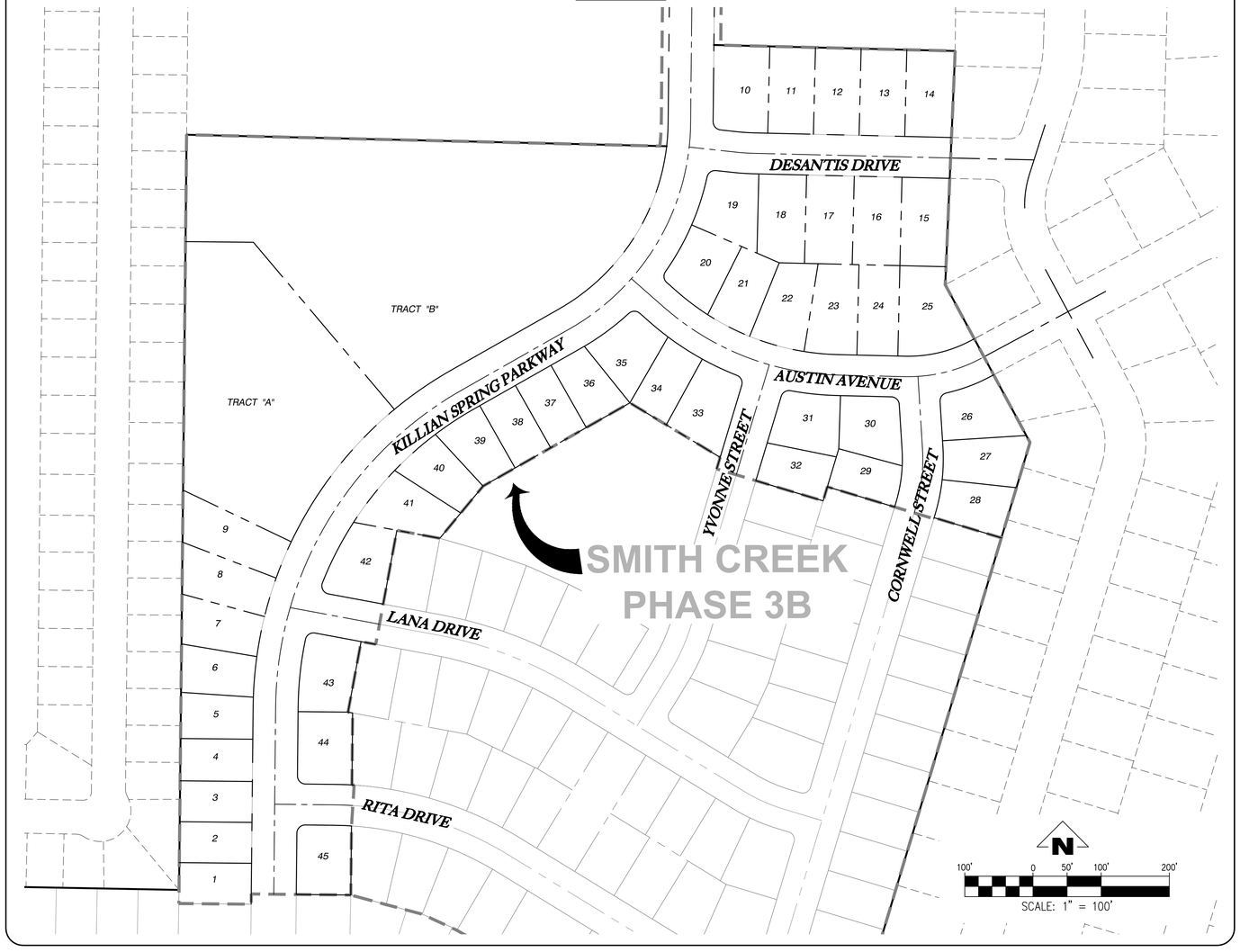
BLRB ARCHITECTS, P.S.

11/15/2006 1:40:30 PM

SMITH CREEK PHASE 3B

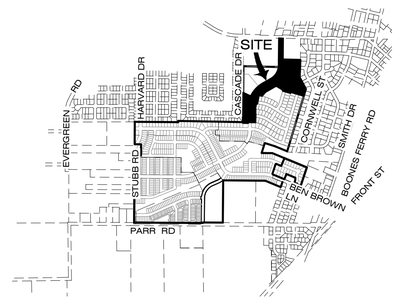
45-LOT SUBDIVISION
TAX MAP 052W13-TL100
WOODBURN, OREGON

SITE MAP



VICINITY MAP

1"=1500'



NOTICE TO EXCAVATORS:
ATTENTION: 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 THE RULES BY CALLING THE CENTER.
(NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)-232-1987).

POTENTIAL UNDERGROUND FACILITY OWNERS

Dig Safely.

Call the Oregon One-Call Center
DIAL 811 or 1-800-332-2344

EMERGENCY TELEPHONE NUMBERS

NW NATURAL GAS	
M-F 7am-6pm	503-226-4211 Ext.4313
AFTER HOURS	503-226-4211
PGE	503-464-7777
CENTURY LINK	1-800-491-0118
FRONTIER	1-800-921-8101
CITY OF WOODBURN ENGINEERING	503-982-5247
WOODBURN WATER DEPARTMENT	503-982-5218
WOODBURN NON-EMERGENCY	503-982-2345

THIS DESIGN COMPLIES WITH ORS 92.044 (7) IN THAT NO UTILITY INFRASTRUCTURE IS DESIGNED TO BE WITHIN ONE (1) FOOT OF A SURVEY MONUMENT LOCATION SHOWN ON A SUBDIVISION OR PARTITION PLAT. NO DESIGN EXCEPTIONS NOT FINAL FIELD LOCATION CHANGES SHALL BE PERMITTED IF THAT CHANGE WOULD CAUSE ANY UTILITY INFRASTRUCTURE TO BE PLACED WITHIN THE PROHIBITED AREA.

VERTICAL DATUM

THE VERTICAL DATUM FOR THIS SURVEY IS BASED UPON POST-PROCESSED GPS STATIC OBSERVATION OF INDEPENDENT CONTROL, PROCESSED THROUGH OPUS, DATUM IS NAVD 88, CONVERTED TO NGVD 29 THROUGH THE VERTCON PROCESS TOOL.

IMPERVIOUS AREA SUMMARY

TOTAL EXISTING	=	**0 SF**	**(0.00 AC)**
PROPOSED PRIVATE PROPERTY	=	339,269 SF	(7.79 AC)
PROPOSED PUBLIC ROW	=	86,792 SF	(1.99 AC)
TOTAL PROPOSED	=	**426,061 SF**	**(9.78 AC)**

PAPER SCALE NOTE

THESE PLANS ARE FULL SIZED ON 22"X34" PAPER, IF 11"X17" SCALE ACCORDINGLY

DRAWING INDEX

PROJECT CONTACTS

OWNER:
STAFFORD DEVELOPMENT COMPANY
8840 SW HOLLY ST.
WILSONVILLE, OREGON 97070
CONTACT: MORGAN WILL
(503) 305-7647

SURVEYOR:
BARKER SURVEYING
3657 KASHMIR WAY SE
SALEM, OREGON 97317
CONTACT: GREGORY L. WILSON
(503) 588-8800 (P)
(503) 363-2469 (F)

GEOTECHNICAL ENGINEER:
GEOPACIFIC
14835 SW 72nd AVENUE
PORTLAND, OR 97224
CONTACT: JAMES D. IMBRIE
(503) 598-8445 (P)
(503) 941-9281 (F)

CIVIL ENGINEER:
EMERIO DESIGN, LLC
6445 SW FALLBROOK PL. STE. 100
BEAVERTON, OR 97008
CONTACT: ROY W. HANKINS, P.E.
(503) 746-8812 (P)
(503) 639-9592 (F)

SITE DATA

AREA:	18.37
ZONING:	RMN
LOT:	PARCEL 2 OF PARTITION PLAT 2018-075

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

COVER SHEET AND INDEX OF DRAWINGS

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL

EMERIO Design
2677 WILLAMENZIE ROAD, SUITE 1A
EUGENE, OR 97401
TEL: (503) 746-8812
FAX: (503) 639-9592
www.emeriodesign.com

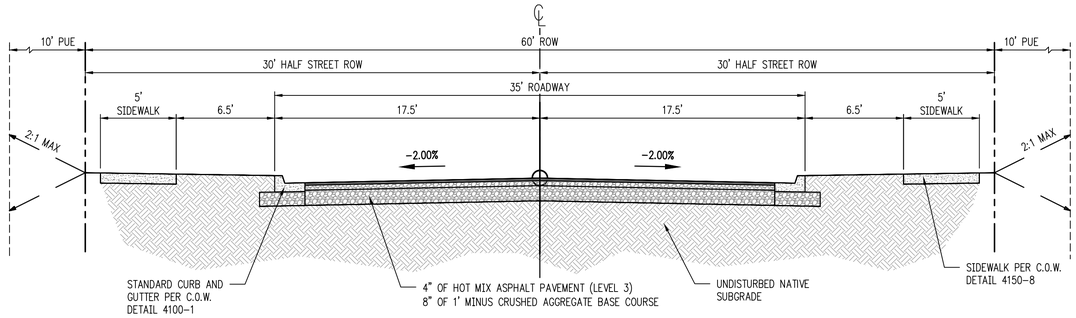
Attachment 4

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 2010
ROY W. HANKINS
EXPIRES: 6/30/2021

NOT FOR CONSTRUCTION

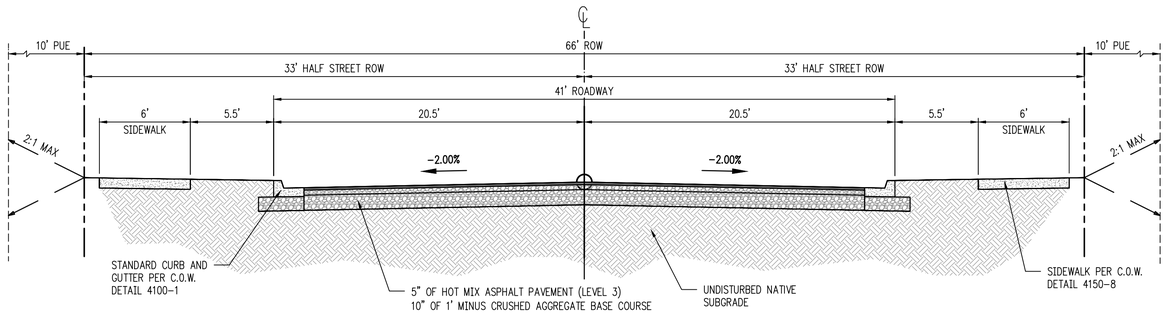
SHEET 01 OF 31

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_01cvsh_Layout: 01 COVER SHEET AND INDEX OF DRAWINGS, Plot Date: 4/13/2020 2:15 PM, by: Ian Fehls



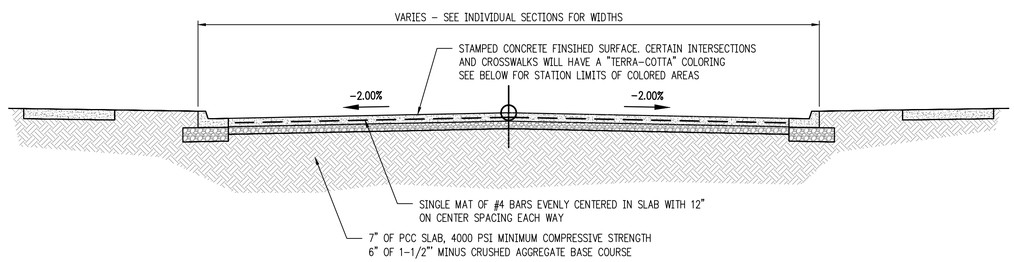
DESANTIS DRIVE, AUSTIN AVENUE, YVONNE STREET, CORNWELL STREET, LANA DRIVE, RITA DRIVE - TYPICAL SECTION

SCALE: 1"=5'



KILLIAN SPRING PARKWAY - TYPICAL SECTION

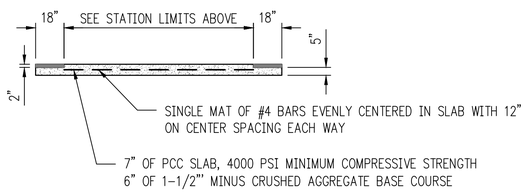
SCALE: 1"=5'



STAMPED CONCRETE CROSSWALKS - TYPICAL SECTION

SCALE: NTS

KILLIAN SPRING PARKWAY (STA 49+42.32 TO 39+54.31) COLORED
KILLIAN SPRING PARKWAY (STA 51+56.01 TO 51+68.01) COLORED



CONCRETE CROSSING DETAIL

TYPICAL SECTION NOTES:

1	GEOTEXTILE FABRIC SHALL BE INSTALLED DURING WET WEATHER CONDITIONS

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

TYPICAL STREET SECTIONS

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL

EMERIO Design
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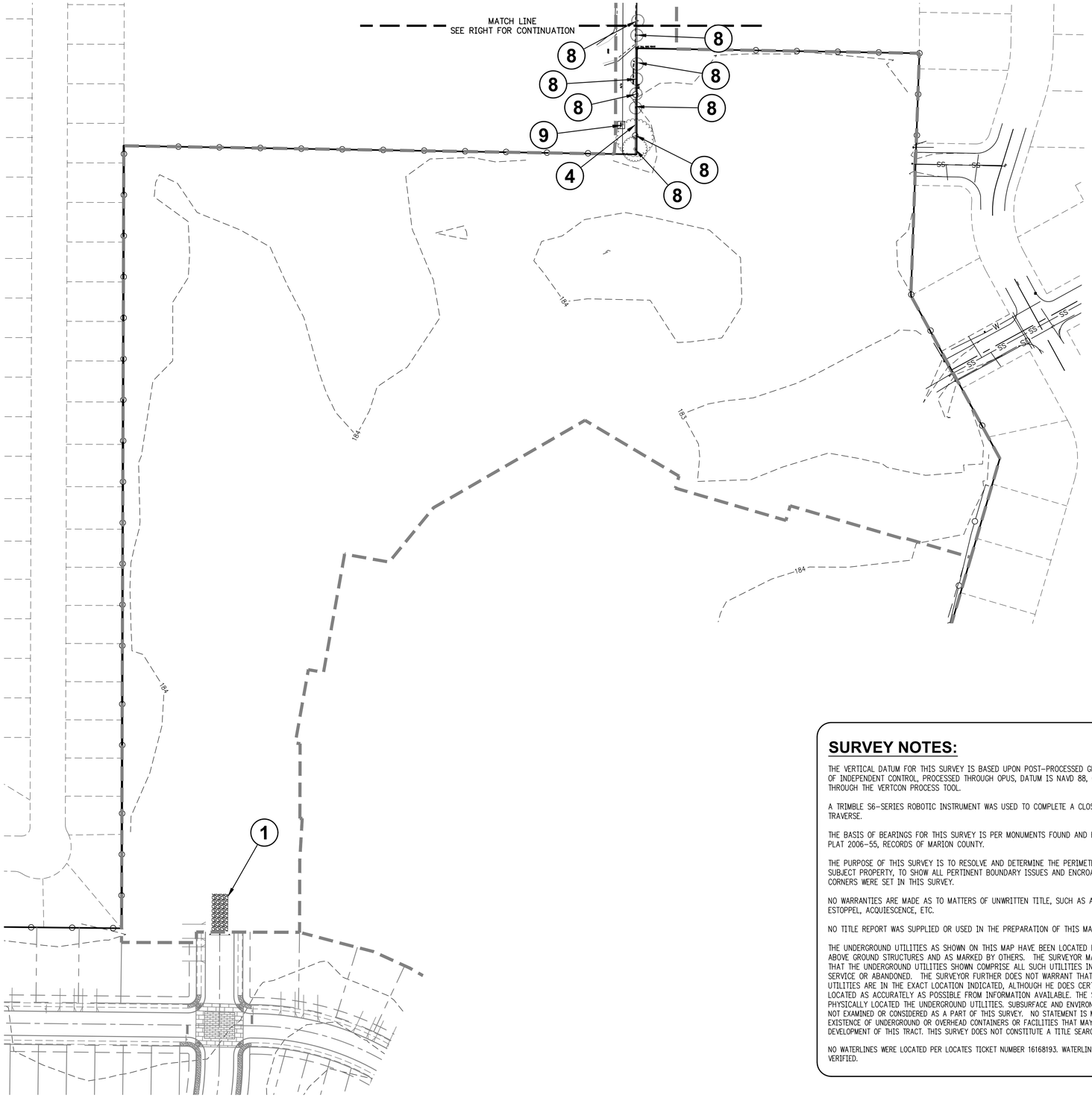
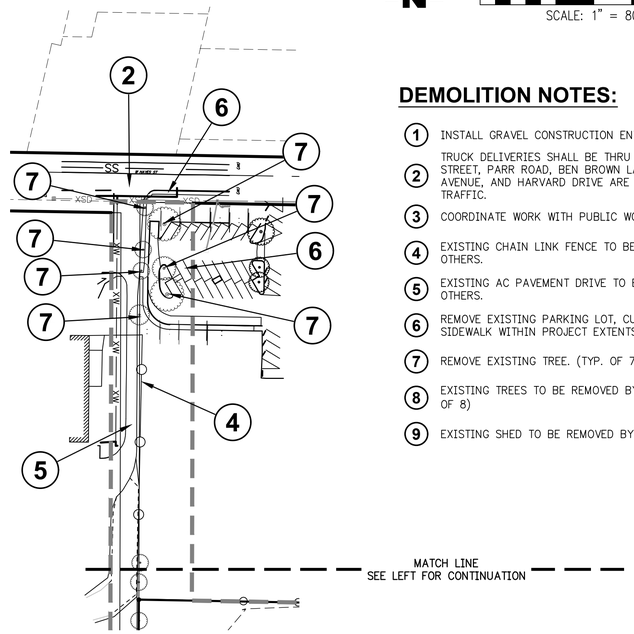
OREGON
JULY 13, 2010
JASON W. HAWKINS
EXPIRES: 6/30/2021
NOT FOR CONSTRUCTION

SHEET 03 OF 31

FILE P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_03sht_Layout 03 TYPICAL STREET SECTIONS, Plot Date: 4/13/2020 2:16 PM, by: Ian Fehs





N

80' 0 40' 80' 160'

SCALE: 1" = 80'

DEMOLITION NOTES:

1. INSTALL GRAVEL CONSTRUCTION ENTRANCE.
2. TRUCK DELIVERIES SHALL BE THRU WEST HAYES STREET, PARR ROAD, BEN BROWN LANE, SETTLEMIER AVENUE, AND HARVARD DRIVE ARE NOT THRU TRUCK TRAFFIC.
3. COORDINATE WORK WITH PUBLIC WORKS DIVISION.
4. EXISTING CHAIN LINK FENCE TO BE REMOVED BY OTHERS.
5. EXISTING AC PAVEMENT DRIVE TO BE REMOVED BY OTHERS.
6. REMOVE EXISTING PARKING LOT, CURB, AND SIDEWALK WITHIN PROJECT EXTENTS.
7. REMOVE EXISTING TREE. (TYP. OF 7)
8. EXISTING TREES TO BE REMOVED BY OTHERS. (TYP. OF 8)
9. EXISTING SHED TO BE REMOVED BY OTHERS.

SURVEY NOTES:

THE VERTICAL DATUM FOR THIS SURVEY IS BASED UPON POST-PROCESSED GPS STATIC OBSERVATION OF INDEPENDENT CONTROL, PROCESSED THROUGH OPUS, DATUM IS NAVD 88, CONVERTED TO NGVD 29 THROUGH THE VERTCON PROCESS TOOL.

A TRIMBLE S6-SERIES ROBOTIC INSTRUMENT WAS USED TO COMPLETE A CLOSED LOOP FIELD TRAVERSE.

THE BASIS OF BEARINGS FOR THIS SURVEY IS PER MONUMENTS FOUND AND HELD PER PARTITION PLAT 2006-55, RECORDS OF MARION COUNTY.

THE PURPOSE OF THIS SURVEY IS TO RESOLVE AND DETERMINE THE PERIMETER BOUNDARY OF THE SUBJECT PROPERTY, TO SHOW ALL PERTINENT BOUNDARY ISSUES AND ENCROACHMENTS. NO PROPERTY CORNERS WERE SET IN THIS SURVEY.

NO WARRANTIES ARE MADE AS TO MATTERS OF UNWRITTEN TITLE, SUCH AS ADVERSE POSSESSION, ESTOPPEL, ACQUIESCENCE, ETC.

NO TITLE REPORT WAS SUPPLIED OR USED IN THE PREPARATION OF THIS MAP.

THE UNDERGROUND UTILITIES AS SHOWN ON THIS MAP HAVE BEEN LOCATED FROM FIELD SURVEY OF ABOVE GROUND STRUCTURES AND AS MARKED BY OTHERS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS TRACT. THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY SURVEYOR.

NO WATERLINES WERE LOCATED PER LOCATES TICKET NUMBER 16168193. WATERLINES NEED TO BE FIELD VERIFIED.

LEGEND

NOTE: SOME SYMBOLS MAY NOT BE USED ON MAP

DECIDUOUS TREE	UTILITY AND LIGHT POLE
EVERGREEN TREE	UTILITY POLE
STORM SEWER MANHOLE	LIGHT POLE
CATCH BASIN	GUY WIRE
SANITARY SEWER CLEANOUT	ELECTRIC BOX
SANITARY SEWER MANHOLE	ELECTRIC METER
WATER VALVE	ELECTRICAL POWER PEDESTAL
WATER METER	ELECTRIC RISER
FIRE HYDRANT	HEAT PUMP
GAS VALVE	WETLAND BOUNDARY
GAS METER	OVERHEAD LINE
BOLLARD	GAS LINE
SIGN	ELECTRICAL LINE
MAILBOX	COMMUNICATIONS LINE
COMMUNICATIONS PEDESTAL	SANITARY SEWER LINE
COMMUNICATIONS MANHOLE	STORM DRAIN LINE
COMMUNICATIONS BOX	WATER LINE
STORM OUTFALL	FENCELINE
FOUND MONUMENT	GAS RISER
DOWN SPOUT TO STORM SYSTEM	DOWN SPOUT TO SPLASH GUARD/GROUND
WELL HEAD	GAS STUB
	WATER BLOWOFF

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

EXISTING CONDITIONS AND DEMOLITION PLAN

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL

EMERIO Design
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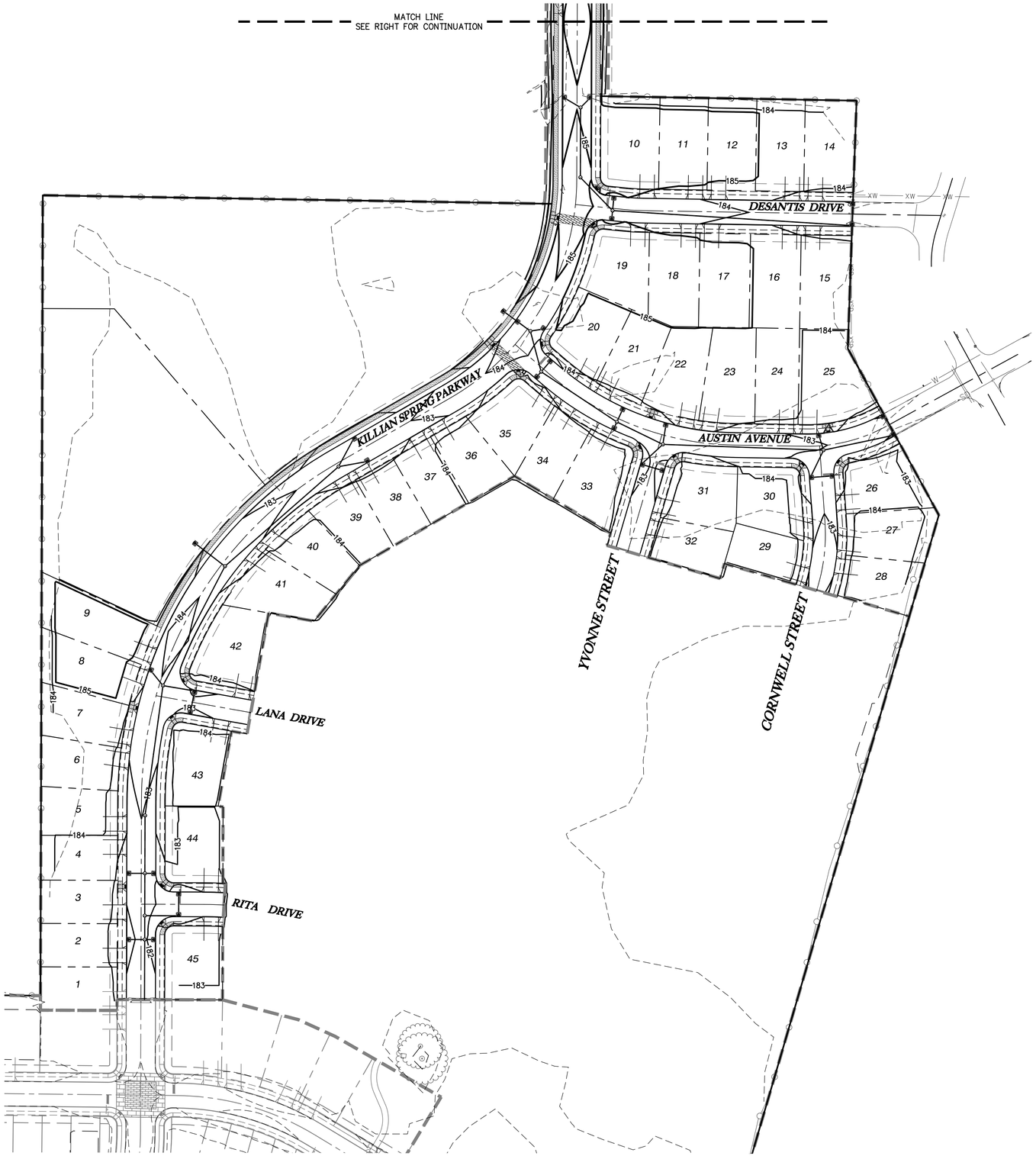
OREGON
JULY 13, 2010
JOHN W. HANKINS
EXPIRES: 6/30/2021

NOT FOR CONSTRUCTION

SHEET 04 OF 31

FILE P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_04exst, Layout: 04 EXISTING CONDITIONS AND DEMOLITION PLAN, Plot Date: 4/13/2020 2:16 PM, by: Ian Fehis



GENERAL NOTES:

A. SEE 1200-C DRAWINGS FOR EROSION CONTROL PLAN.

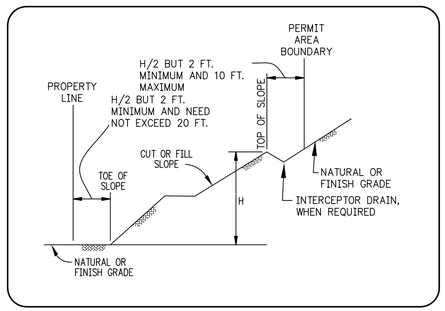
B. SITE GRADING SHALL NOT RESULT IN THE IMPOUNDMENT OF STORM WATER ON ADJACENT PROPERTIES.

C. 6" STRIPPINGS SHALL BE PLACED ON TOP OF STRUCTURAL FILL FOR ALL LOTS EXCEPT ALLEY LOADED.

EARTHWORK SUMMARY	
	VOLUME IN CY
CUT	2,595
FILL	15,480
NET	12,885
NOTE: STRIPPING AND TRENCH SPOILS ARE NOT INCLUDED IN THIS CALCULATION, CONTRACTOR SHALL INDEPENDENTLY VERIFY VOLUMES.	

LEGEND

TW	TOP OF WALL
BW	BOTTOM OF WALL
RW	RETAINING WALL



SETBACK LIMITATIONS

N.T.S.

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

GRADING PLAN

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL

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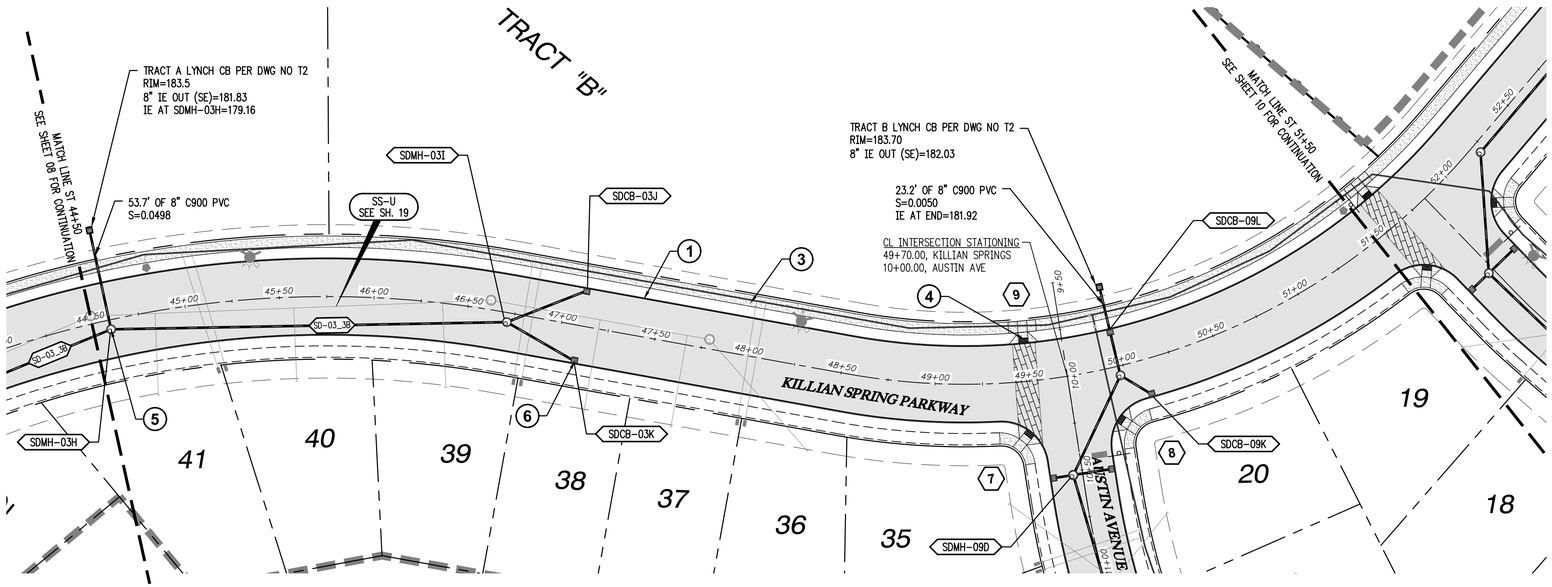
JULY 15, 2016
NOT FOR CONSTRUCTION
EXPIRES: 6/30/2021

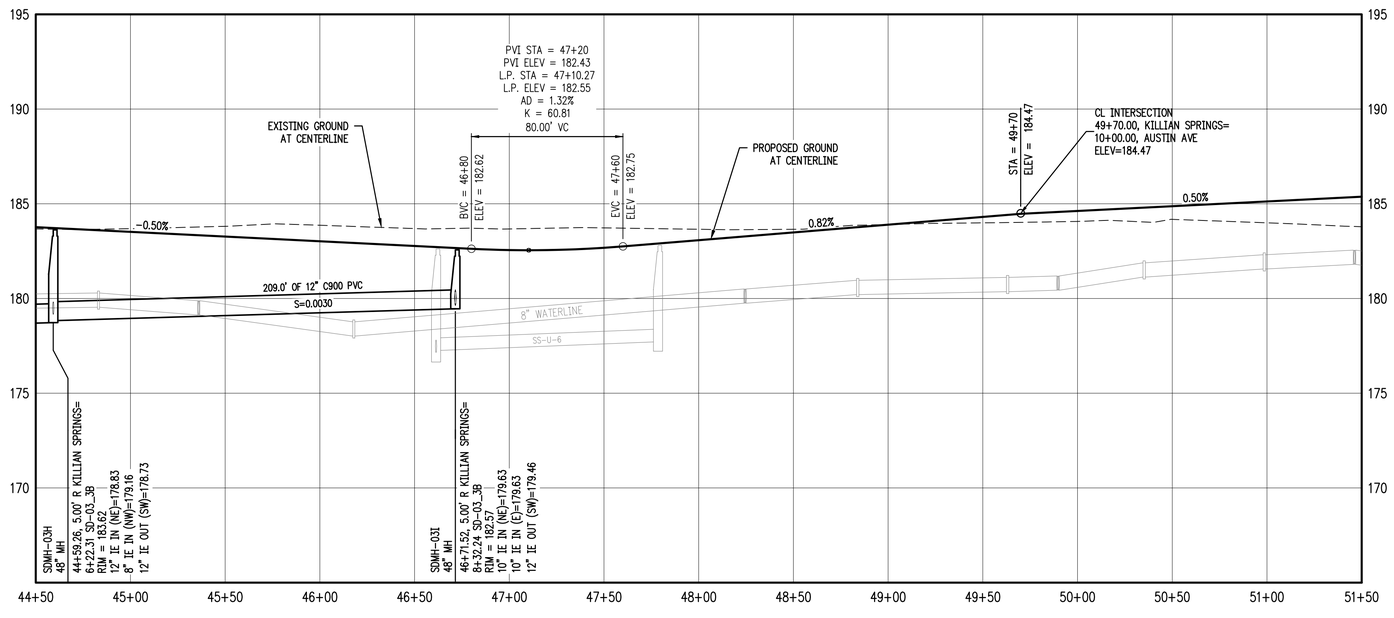
SHEET
07
OF
31

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_07grad. Layout: 07 GRADING PLAN, Plot Date: 4/13/2020 2:18 PM, by: Ian Fellis



KILLIAN SPRING PARKWAY & STORM SD-03 STA 44+50 TO 51+50 PLAN

SCALE: 1"=40'



KILLIAN SPRING PARKWAY & STORM SD-03 STA 44+50 TO 51+50 PROFILE

SCALE: H:1"=40' V:1"=4'

GENERAL NOTES:

A. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

C. SEE SHEET 3 FOR TYPICAL STREET SECTIONS.

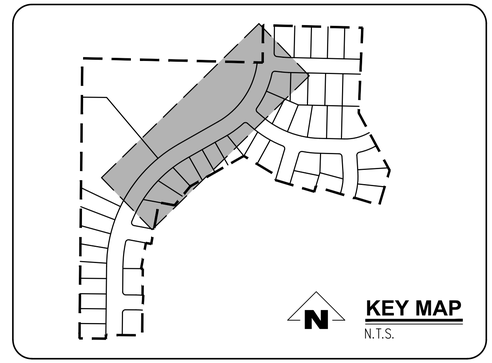
(--) SEE SHEET 15-17 FOR CURB RETURN DATA.

CONSTRUCTION NOTES:

1. INSTALL CONCRETE TYPE "A" CURB AND GUTTER PER C.O.W. DWG NO 4100-1
2. NOT USED.
3. INSTALL PROPERTY LINE SIDEWALK AT DRIVEWAY PER C.O.W. DWG NO 4150-4.
4. INSTALL ADA RAMP AT PROPERTY LINE SIDEWALK PER ODOT DWG NO RD756.
5. INSTALL STORM MH PER C.O.W 7500-1
6. INSTALL CB PER C.O.W. 7500-4

CATCH BASIN DATA TABLE

CATCH BASIN	C.B. TYPE	STREET STA	RIM ELEV.	I.E. OUT	SLOPE	PIPE DATA
SDCB-03J	INSTALL CATCH BASIN PER C.O.W 7100-4	47+10.27 19.83' LT	182.15	179.78	0.0033	46.02 LF 10" C900 PVC
SDCB-03K	INSTALL CATCH BASIN PER C.O.W 7100-4	47+10.27 19.83' RT	182.15	179.76	0.0033	41.49 LF 10" C900 PVC
SDCB-09K	INSTALL CATCH BASIN PER C.O.W 7100-4	50+10.56 19.83' RT	184.28	181.09	0.0033	20.13 LF 10" C900 PVC
SDCB-09L	INSTALL CATCH BASIN PER C.O.W 7100-4	49+97.42 19.84' LT	184.21	181.11	0.0033	24.84 LF 10" C900 PVC



SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

KILLIAN SPRING & SD-03
STA 44+50 TO 51+50 PLAN & PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL

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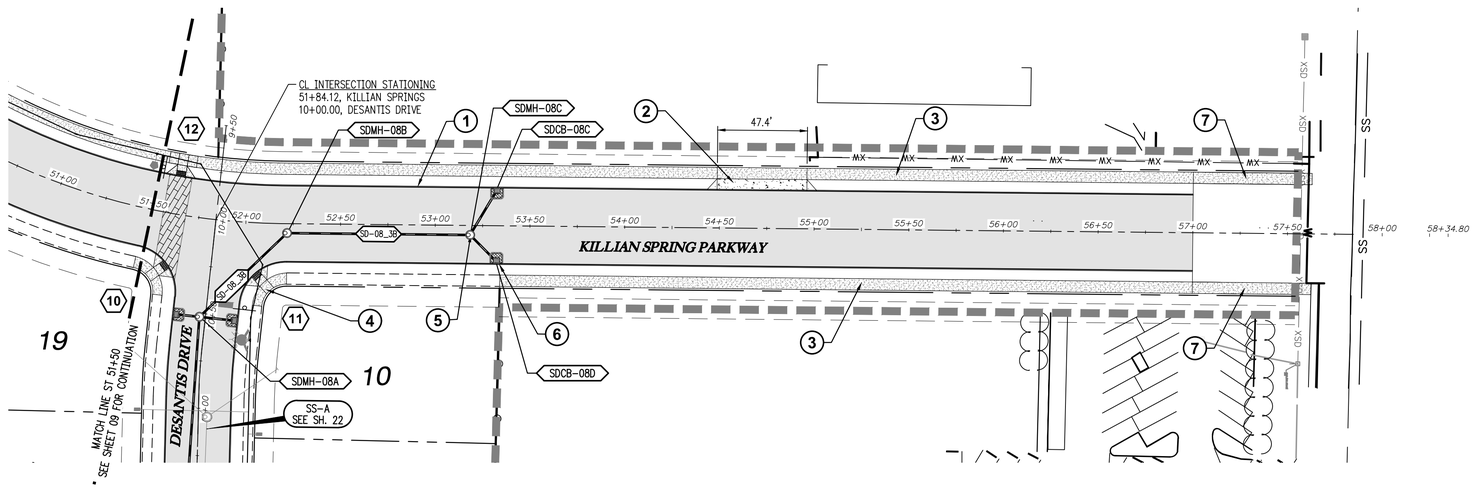
JANUARY 15, 2016
JR W. HAWKINS
EXPIRES: 6/30/2021

NOT FOR CONSTRUCTION

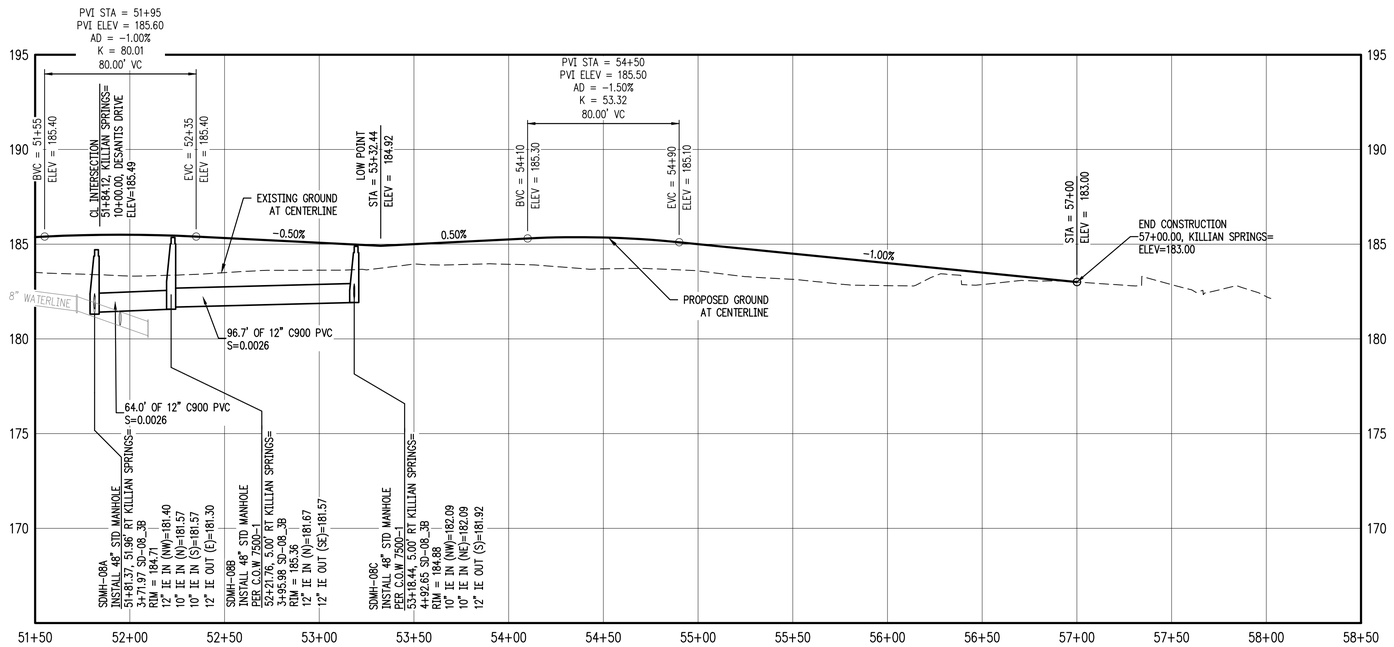
SHEET 09 OF 31

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_09st02, Layout: 09 KILLIAN SPRING & SD-XX STA 44+50 TO 51+50 PLAN & PROFILE, Plot Date: 4/13/2020 2:19 PM, by: Ian Fehs



KILLIAN SPRING PARKWAY & STORM SD-08 STA 51+50 TO 58+00 PLAN

SCALE: 1"=40'



KILLIAN SPRING PARKWAY & STORM SD-08 STA 51+50 TO 58+00 PROFILE

SCALE: H: 1"=40' V: 1"=4'

GENERAL NOTES:

A. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

C. SEE SHEET 3 FOR TYPICAL STREET SECTIONS.

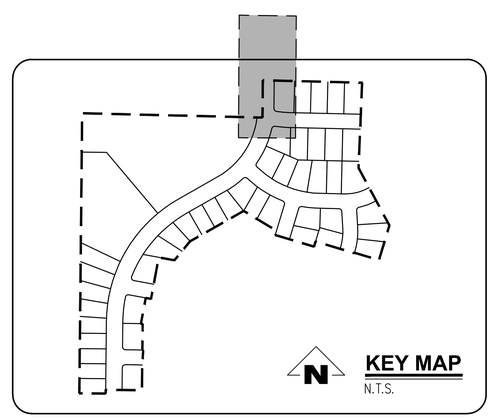
(--) SEE SHEET 15-17 FOR CURB RETURN DATA.

CONSTRUCTION NOTES:

1. INSTALL CONCRETE TYPE "A" CURB AND GUTTER PER C.O.W. DWG NO 4100-1
2. STA 54+72.33, 20.0' LT KILLIAN SPRINGS
   INSTALL DRIVEWAY APPROACH WITH TYPE "A" CURB AT DRIVEWAY PER C.O.W. DWG NO 4100-4 & 4150-1.
   VERIFY DRIVEWAY APPROACH LOCATION WITH PROPERTY OWNER TO THE WEST PRIOR TO CONSTRUCTION.
   NOTE: STATION AND OFFSET IS TO CENTER OF DRIVEWAY APPROACH AT THE FACE OF CURB.
3. INSTALL PROPERTY LINE SIDEWALK AT DRIVEWAY PER C.O.W. DWG NO 4150-4.
4. INSTALL ADA RAMP AT PROPERTY LINE SIDEWALK PER ODOT DWG NO RD756.
5. INSTALL STORM MH PER C.O.W 7500-1
6. INSTALL CB PER C.O.W. 7500-4
7. CONSTRUCT ASPHALT RAMP TAPERING TO EXISTING GRADE. (TYP. OF 2), EXTEND TO HAYES STREET

CATCH BASIN DATA TABLE

CATCH BASIN	C.B. TYPE	STREET STA	RIM ELEV.	I.E. OUT	SLOPE	PIPE DATA
SDCB-08C	INSTALL CATCH BASIN PER C.O.W 7100-4	53+32.43 19.83' LT	184.52	182.18	0.0033	28.51 LF 10" C900 PVC
SDCB-08D	INSTALL CATCH BASIN PER C.O.W 7100-4	53+32.43 19.83' RT	184.52	182.16	0.0033	20.39 LF 10" C900 PVC



KEY MAP
N.T.S.

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

KILLIAN SPRING & SD-03
STA 51+50 TO 58+00 PLAN
& PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL

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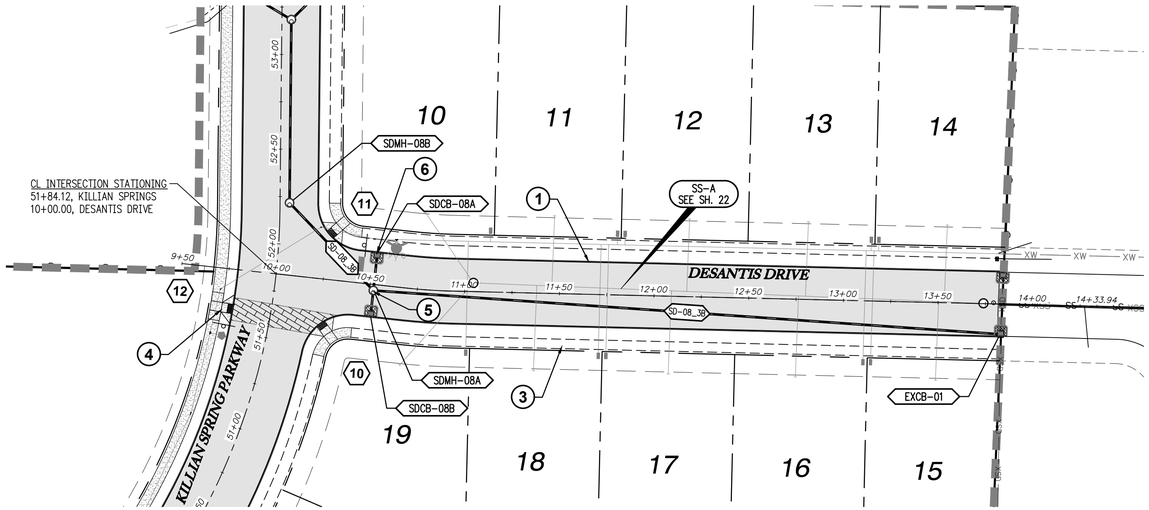
OREGON
JOSHUA W. HANKINS
JULY 15, 2016
EXPIRES: 6/30/2021

NOT FOR CONSTRUCTION

SHEET 10 OF 31

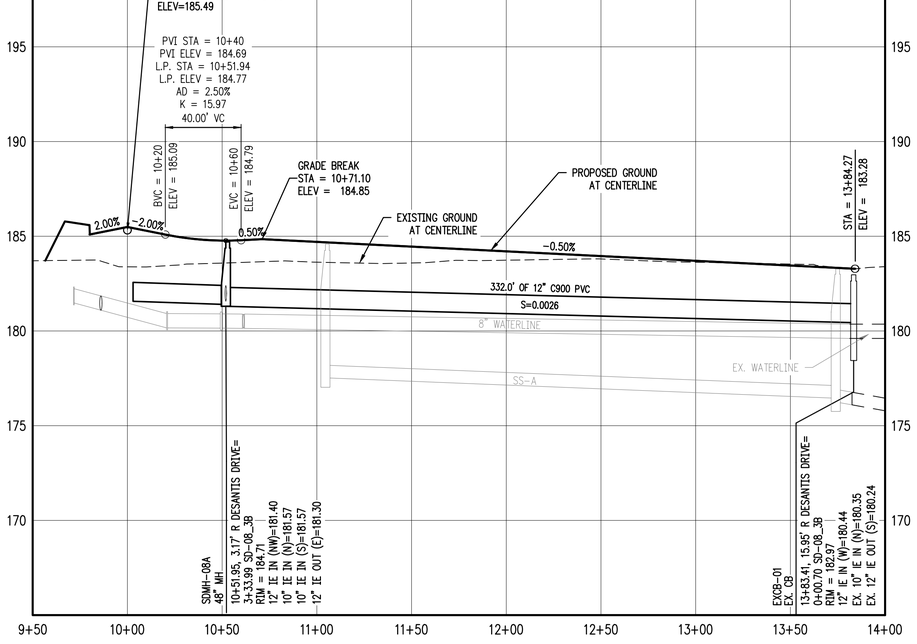
471-001

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_10st03, Layout: 10 KILLIAN SPRING & SD-XX STA 51+50 TO 58+00 PLAN & PROFILE, Plot Date: 4/14/2020 5:51 PM, by: Zak Hankins



DESANTIS DR & STORM SD-08 STA 9+50 TO 14+00 PLAN

SCALE: 1"=40'



DESANTIS DR & STORM SD-08 STA 9+50 TO 14+00 PROFILE

SCALE: H:1"=40' V:1"=4'

SCALE: 1" = 40'

GENERAL NOTES:

A. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

C. SEE SHEET 3 FOR TYPICAL STREET SECTIONS.

(--) SEE SHEET 15-17 FOR CURB RETURN DATA.

CONSTRUCTION NOTES:

(1) INSTALL CONCRETE TYPE "A" CURB AND GUTTER PER C.O.W. DWG NO 4100-1

(2) NOT USED.

(3) INSTALL PROPERTY LINE SIDEWALK AT DRIVEWAY PER C.O.W. DWG NO 4150-4.

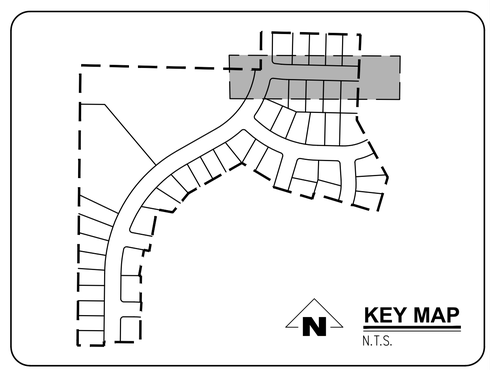
(4) INSTALL ADA RAMP AT PROPERTY LINE SIDEWALK PER ODOT DWG NO RD756.

(5) INSTALL STORM MH PER C.O.W 7500-1

(6) INSTALL CB PER C.O.W. 7500-4

CATCH BASIN DATA TABLE

CATCH BASIN	C.B. TYPE	STREET STA	RIM ELEV.	I.E. OUT	SLOPE	PIPE DATA
SDCB-08A	INSTALL CATCH BASIN PER C.O.W 7100-4	10+51.94 16.83' LT	184.43	181.63	0.0033	20.00 LF 10" C900 PVC
SDCB-08B	INSTALL CATCH BASIN PER C.O.W 7100-4	10+51.94 16.83' RT	184.43	181.62	0.0033	13.67 LF 10" C900 PVC



KEY MAP
N.T.S.

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

DESANTIS DR & STORM
SD-08 PLAN AND PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL

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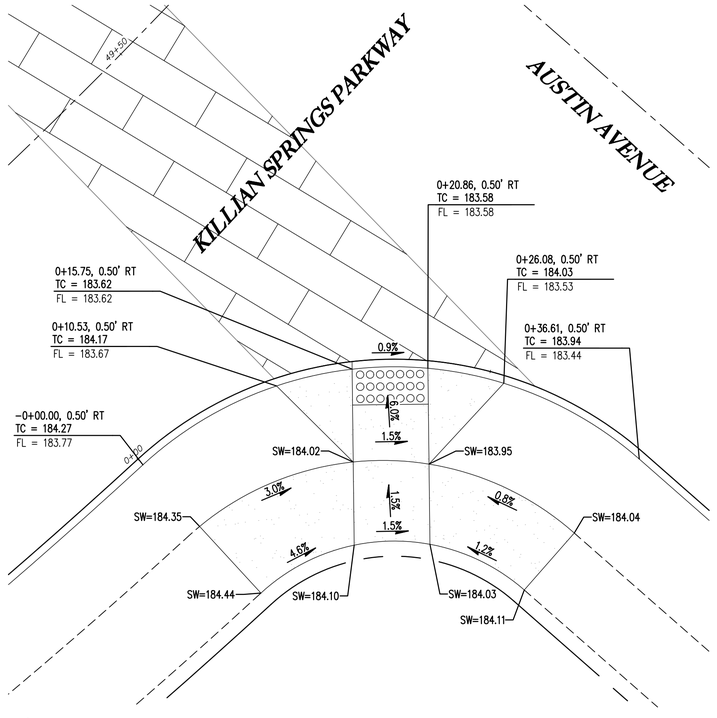
JASON W. HAWKINS
EXPIRES: 6/30/2021

NOT FOR CONSTRUCTION

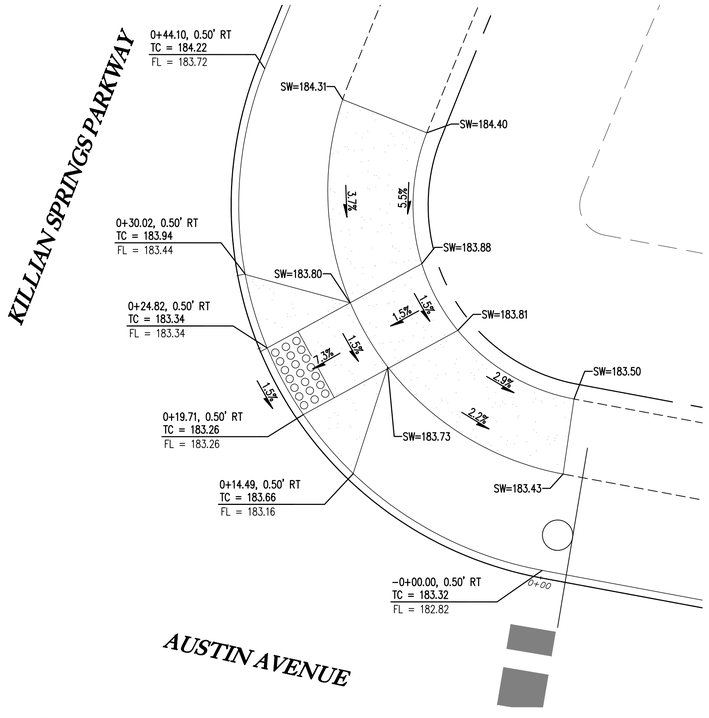
SHEET 12 OF 31

FILE: P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_12st05; Layout: 12 DESANTIS DR & STORM SD-XX PLAN AND PROFILE, Plot Date: 4/13/2020 2:21 PM, by: Ian Fehts



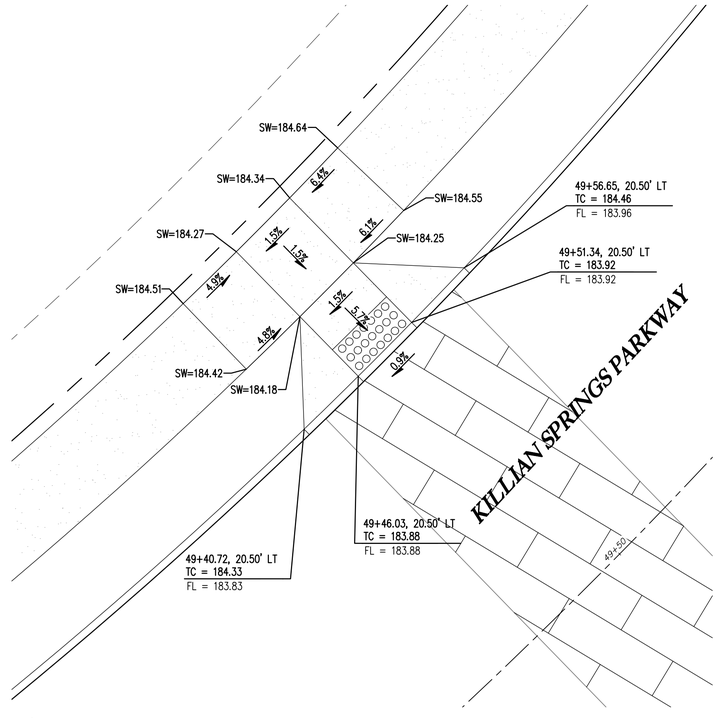
CURB RETURN - S CORNER OF KILLIAN AND AUSTIN 7

1" = 5'



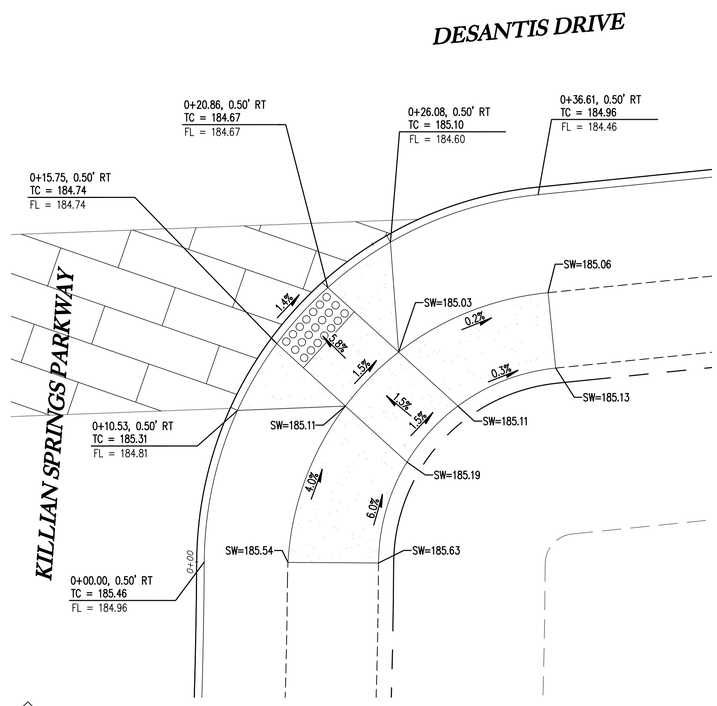
CURB RETURN - NE CORNER OF KILLIAN AND AUSTIN 8

1" = 5'



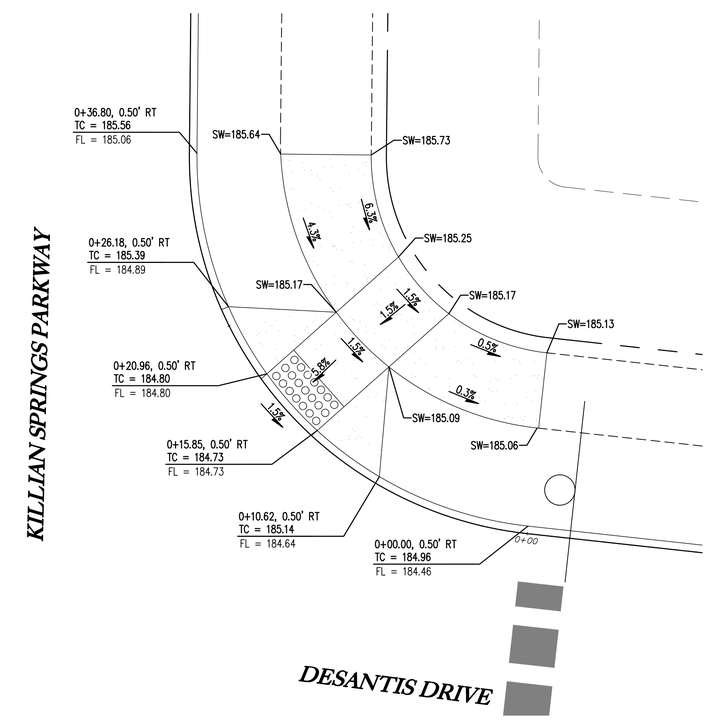
CURB RETURN - NW CORNER OF KILLIAN AND AUSTIN 9

1" = 5'



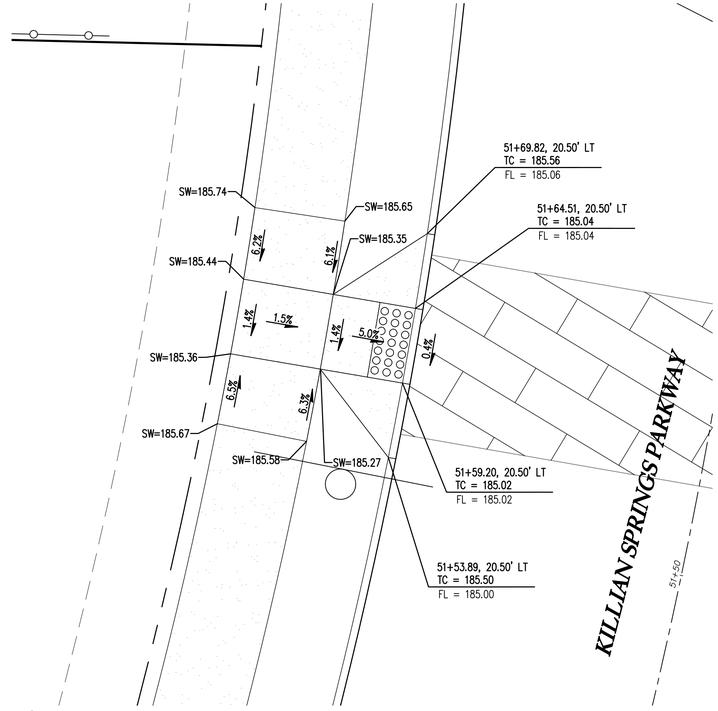
CURB RETURN - SE CORNER OF KILLIAN AND DESANTIS 10

1" = 5'



CURB RETURN - NE CORNER OF KILLIAN AND DESANTIS 11

1" = 5'



CURB RETURN - W CORNER OF KILLIAN AND DESANTIS 12

1" = 5'

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

CURB RETURN DETAILS

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL

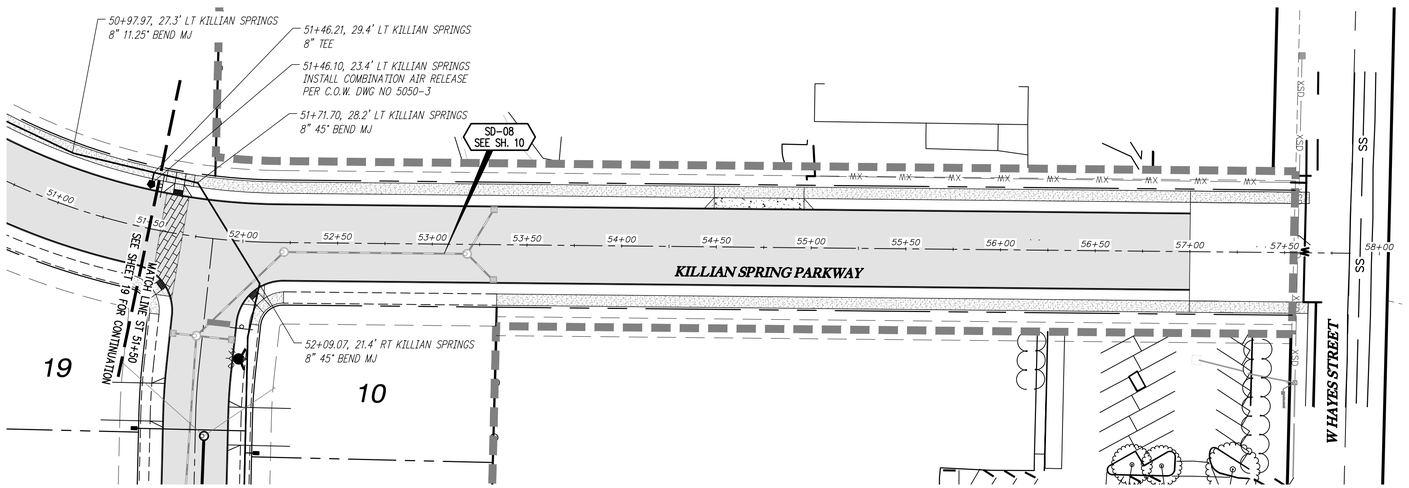
EMERIO Design
2677 WILLAKENZIE ROAD, SUITE 1A
EUGENE, OR 97401
TEL: (503) 746-8812
FAX: (503) 746-8813
www.emeriodesign.com

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 13, 2010
TROY W. HANKINS
EXPIRES: 6/30/2021

NOT FOR CONSTRUCTION

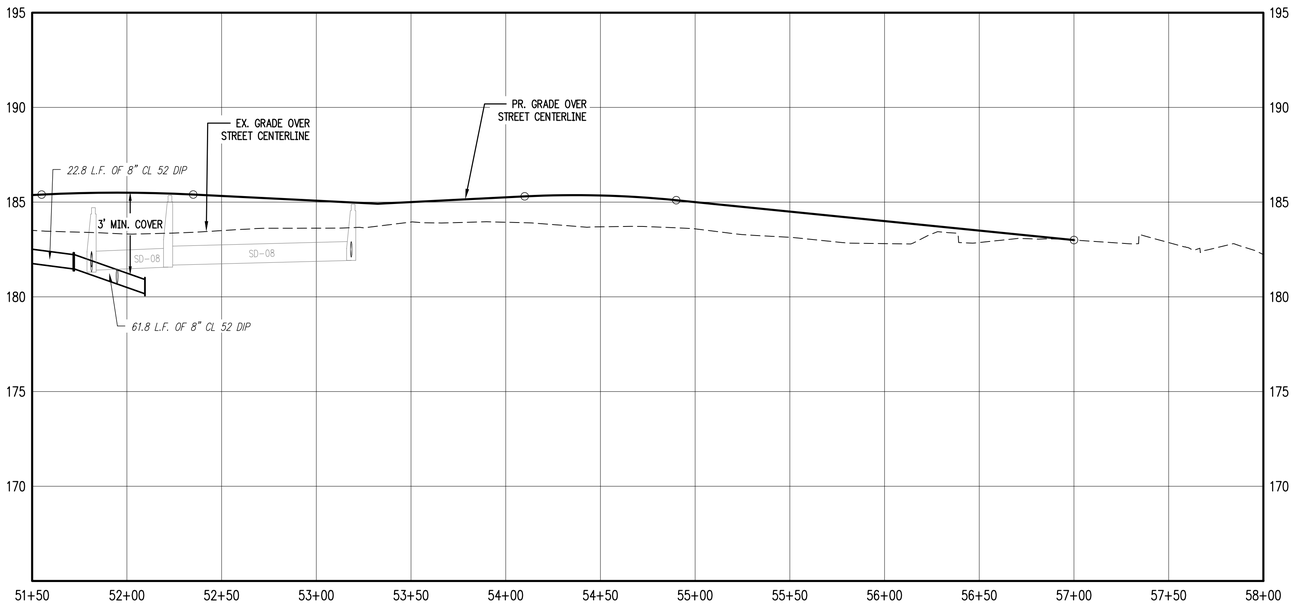
SHEET 16 OF 31

FILE:P:\471-001 Smith Creek-Feasibility\dwg\Civil\Phase 3B\471-001_16crb02, Layout: 16 CURB RETURN DETAILS, Plot Date: 4/13/2020 2:23 PM, by: tom Fellis



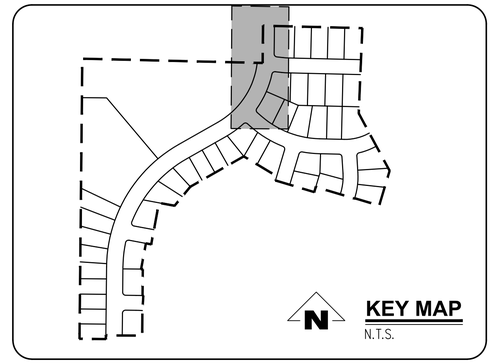
KILLIAN SPRING STA 51+50 TO 58+00 & WATER LINE PLAN

SCALE: 1"=40'



KILLIAN SPRING STA 51+50 TO 58+00 & WATER LINE PROFILE

SCALE: 1"=40'



GENERAL NOTES:

A. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

C. LATERAL NOTES: UNLESS NOTED OTHERWISE, ALL LATERALS ARE TO BE 4" PVC WITH A MINIMUM SLOPE OF 2.75% LATERAL CONNECTIONS TO MAIN SEWER LINE TO BE MADE WITH MANUFACTURED TEES.

D. ALL 2" x 4" SANITARY SERVICE CONNECTION MARKERS TO BE COLOR CODED GREEN.

E. INSTALL TEMPORARY SAMPLING TAP ASSEMBLIES PER C.O.W. DWG NO 5100-1. COORDINATE SAMPLING TAP LOCATIONS WITH CITY OF WOODBURN ENGINEER.

F. SANITARY SEWER CLEAN OUT TO BE INSTALLED IN R.O.W. BEHIND SIDEWALK PER CITY OF WOODBURN C.O.W. DWG NO 6200-3.

CONSTRUCTION NOTES:

1. INSTALL WATER METER BOX AND WATER SERVICE CONNECTION PER C.O.W. DWG NO 5000-4 & 5050-1.
2. INSTALL SANITARY SEWER SERVICE CONNECTION PER C.O.W. DWG NO 6200-3.
3. INSTALL SANITARY SEWER MANHOLE PER C.O.W. DWG NO 6510-3.
4. REMOVE PLUG AND TEMPORARY MANHOLE AT END OF EXISIING SANITARY LINE.
5. REMOVE EXISTING BLOWOFF WITH GATE VALVE REMAINING IN PLACE. CONTRACTOR SHALL VERIFY EXISTING VALVE IS NOT LEAKING PRIOR TO CONNECTING NEW LINE.
6. ALL WATER MAIN JOINTS TO BE RESTRAINED WITH MEGALUGS (TYP.)

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

KILLIAN SPRING STA
51+50 TO 58+00 & WATER
LINE PLAN & PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL

EMERIO Design
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EUGENE, OR 97401
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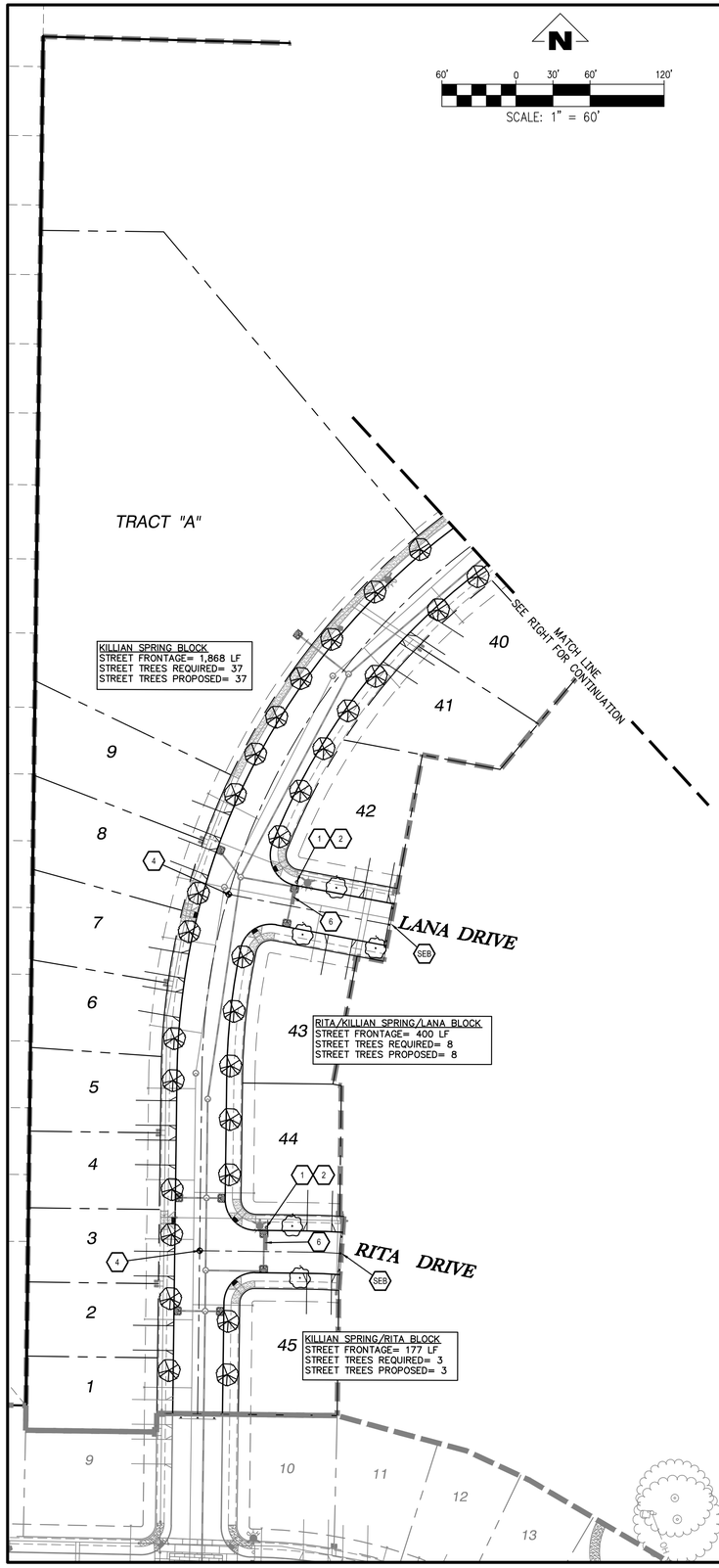
REGISTERED PROFESSIONAL ENGINEER
OREGON
JANUARY 13, 2015
JOSEPH W. HANKINS
NOT FOR CONSTRUCTION
EXPIRES: 6/30/2021

SHEET
20
OF
31

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_20ssd3, Layout: 20 SANITARY SS-U STA 51+50 TO 58+00 & WATER LINE PLAN & PROFILE, Plot Date: 4/13/2020 2:25 PM, by: Ian Fellis



SIGNAGE LEGEND

STOP — R1-1, 30" X 30", 1 REQUIRED — 6 – PROPOSED (1)		CENTERLINE SURVEY MONUMENT — 6 – PROPOSED (4)
MEET MUTCD STANDARDS — {30"} "STREET NAME" {6"} — 2 SIDED — 6 – PROPOSED (2)		SPEED LIMIT 25 — 30" X 36" — 1 – PROPOSED (3)
NO PARKING FIRE LANE TOW AWAY ZONE ORS 811.570 — 0 – PROPOSED (NPL)		NO PARKING FIRE LANE TOW AWAY ZONE ORS 811.570 — 0 – PROPOSED (NPR)
NO PARKING FIRE LANE TOW AWAY ZONE ORS 811.570 — 0 – PROPOSED (NPA)	STREET OR SIDEWALK BARRICADE PER ODOT STANDARDS ATTACH SIGN TO BARRICADE STATING "THIS STREET IS PLANNED FOR FUTURE EXTENSION" — 4 – PROPOSED (SEB)	INSTALL NEW THERMOPLASTIC STOP BAR — 6 – PROPOSED (6)

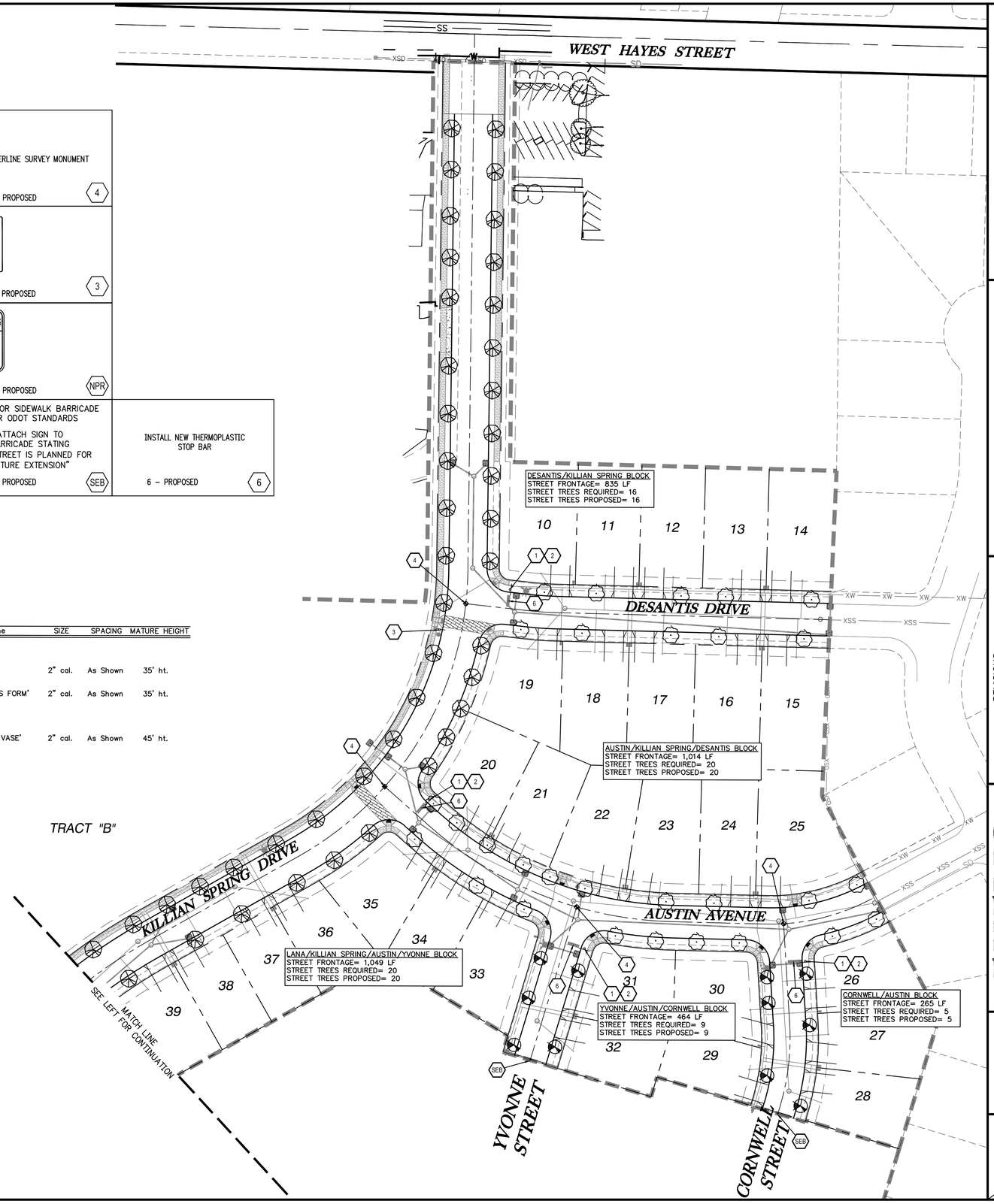
TREE PLANTING NOTES:

1. INSTALL STREET TREES TYPICALLY AT 50' O.C. PER CITY OF WOODBURN STREET TREE PLANTING REGULATIONS.

PLANT LIST: STREET TREES

SYMBOL	QTY.	LATIN NAME/ Common Name	SIZE	SPACING	MATURE HEIGHT
		SMALL TREES			
	36	ACER RUBRUM 'GERLING' Gerling Red Maple	2" cal.	As Shown	35' ht.
	11	PYRUS CALLERYANA 'GLEN'S FORM' Chanticleer Flowering Pear	2" cal.	As Shown	35' ht.
		MEDIUM TREES			
	71	ZELKOVA SERRATA 'GREEN VASE' Green Vase Zelkova	2" cal.	As Shown	45' ht.

(*) OR OTHER APPROVED SPECIES



SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

STREET SIGNAGE STRIPING & STREET TREE PLAN

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL

EMERIO Design
2677 WILLAMENZIE ROAD, SUITE 1A
EUGENE, OR 97401
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FAX: (503) 746-8813
www.emeriodesign.com

REGISTERED PROFESSIONAL ENGINEER
84283
OREGON
JULY 13, 2010
ROY W. HAWKINS
EXPIRES: 6/30/2021

SHEET 25 OF 31

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_25sgn. Layout: 25 STREET SIGNAGE STRIPING & STREET TREE PLAN, Plot Date: 4/21/2020 4:47 PM, by: Roy Hankins

EMERIO Design

Memo

To:	**Dago Garcia, City of Woodburn**
From:	**Roy Hankins, Emerio Design**
CC:	
Date:	**09/17/2020**
Subject:	**City of Woodburn Comment Responses for Phase 3B**

Dago,

Below is the response to our comments from the city. The Phase 3B plans have been updated to address some of the comments. If an item remains unchanged, the response will clarify why. Please contact me if you have additional questions.

Roy Hankins, PE

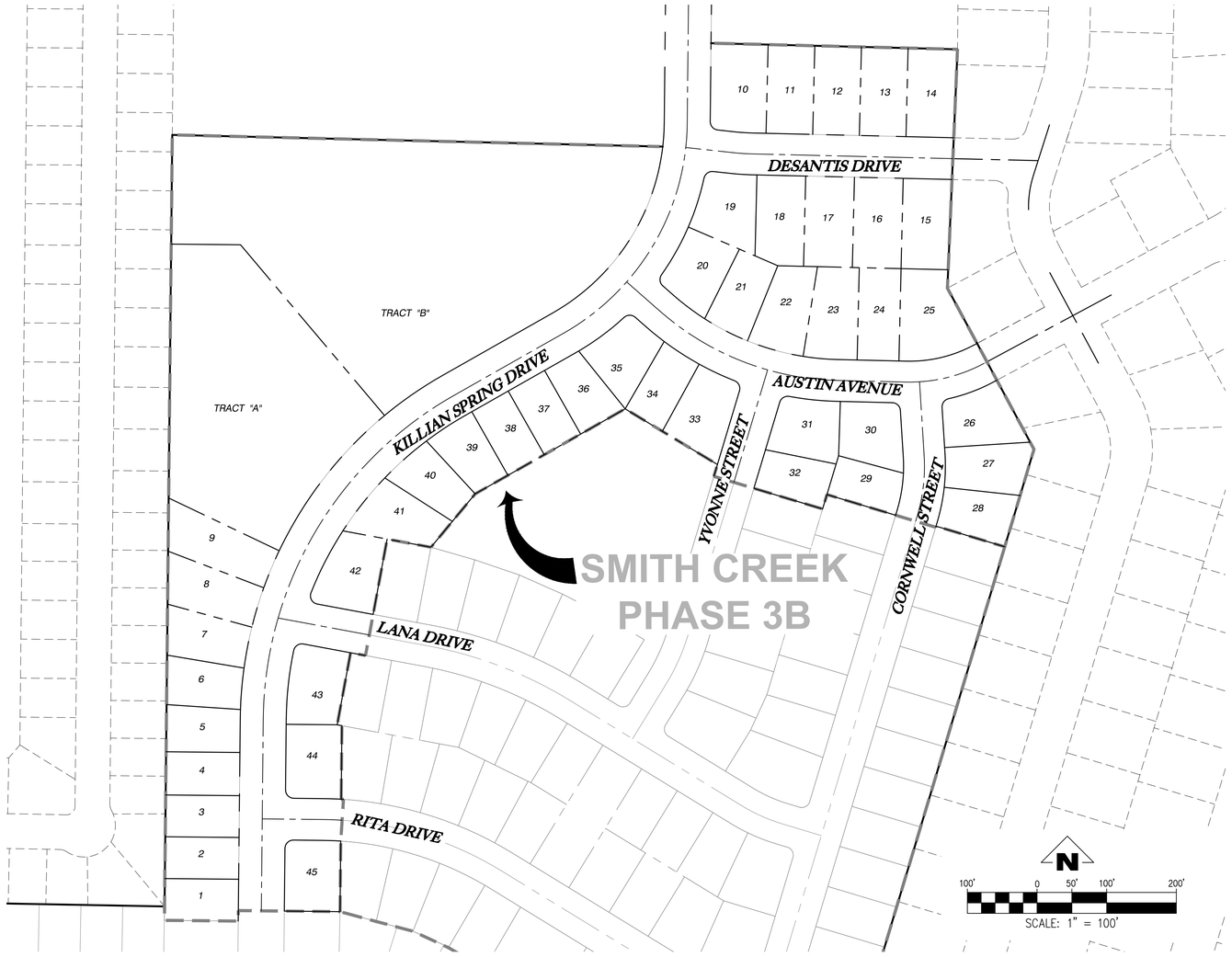
City comments:

Sheet Number	Response
1	A. Added all revision notes on the coversheet. B. Developer will provide easement documentation.
3	A. Added revision note callout on this sheet.
4	A. Added the requested demolition note and leaders.
5	A. Added revision note callout on this sheet.
7	A. Construction entrance through Killian Spring is now shown on this sheet.
9	A. Updated crosswalk hatch pattern to match the detail shown on sheet 3.
10	A. Updated driveway widths to match widths in the school plan. B. Added note to verify widths and locations of the driveways.
12	A. Updated crosswalk hatch pattern to match the detail shown on sheet 3.
13	A. Updated crosswalk hatch pattern to match the detail shown on sheet 3.
16	A. Updated crosswalk hatch pattern to match the detail shown on sheet 3.
18	A. Updated crosswalk hatch pattern to match the detail shown on sheet 3.
20	A. Updated crosswalk hatch pattern to match the detail shown on sheet 3.
21	A. Updated crosswalk hatch pattern to match the detail shown on sheet 3. B. Updated water line label with hot tap note.
26	A. Driveways are now displayed, and trees shifted accordingly. B. Added thermoplastic crosswalk striping to both colored concrete crosswalk sections. C. Added necessary school zone signage along Killian Spring.

SMITH CREEK PHASE 3B

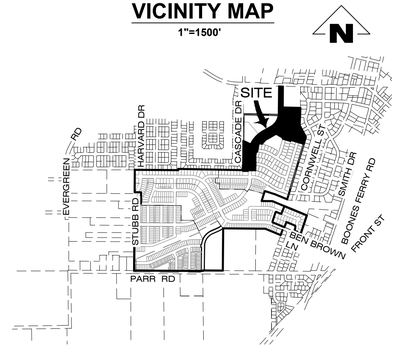
45-LOT SUBDIVISION
TAX MAP 052W13-TL100
WOODBURN, OREGON

SITE MAP



VICINITY MAP

1"=1500'



NOTICE TO EXCAVATORS:
ATTENTION: 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 THE RULES BY CALLING THE CENTER.
(NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)-232-1987).

POTENTIAL UNDERGROUND FACILITY OWNERS

Dig Safely.

Call the Oregon One-Call Center
DIAL 811 or 1-800-332-2344

EMERGENCY TELEPHONE NUMBERS

NW NATURAL GAS	
M-F 7am-6pm	503-226-4211 Ext.4313
AFTER HOURS	503-226-4211
PGE	503-464-7777
CENTURY LINK	1-800-491-0118
FRONTIER	1-800-921-8101
CITY OF WOODBURN ENGINEERING	503-982-5247
WOODBURN WATER DEPARTMENT	503-982-5218
WOODBURN NON-EMERGENCY	503-982-2345

THIS DESIGN COMPLIES WITH ORS 92.044 (7) IN THAT NO UTILITY INFRASTRUCTURE IS DESIGNED TO BE WITHIN ONE (1) FOOT OF A SURVEY MONUMENT LOCATION SHOWN ON A SUBDIVISION OR PARTITION PLAT. NO DESIGN EXCEPTIONS NOT FINAL FIELD LOCATION CHANGES SHALL BE PERMITTED IF THAT CHANGE WOULD CAUSE ANY UTILITY INFRASTRUCTURE TO BE PLACED WITHIN THE PROHIBITED AREA.

VERTICAL DATUM

THE VERTICAL DATUM FOR THIS SURVEY IS BASED UPON POST-PROCESSED GPS STATIC OBSERVATION OF INDEPENDENT CONTROL, PROCESSED THROUGH OPUS, DATUM IS NAVD 88, CONVERTED TO NGVD 29 THROUGH THE VERTCON PROCESS TOOL.

IMPERVIOUS AREA SUMMARY

TOTAL EXISTING	=	**0 SF**	**(0.00 AC)**
PROPOSED PRIVATE PROPERTY	=	339,269 SF	(7.79 AC)
PROPOSED PUBLIC ROW	=	86,792 SF	(1.99 AC)
TOTAL PROPOSED	=	**426,061 SF**	**(9.78 AC)**

PAPER SCALE NOTE

THESE PLANS ARE FULL SIZED ON 22"X34" PAPER, IF 11"X17" SCALE ACCORDINGLY

DRAWING INDEX

2

REVISION NOTES

1. PROVIDE DOCUMENTATION INDICATING THAT THE DEVELOPER HAS OBTAINED THE RIGHT-OF-WAY, PUBLIC UTILITY EASEMENTS AND TEMPORARY CONSTRUCTION EASEMENTS REQUIRED TO CONSTRUCT KILLIAN SPRING DRIVE IN THE AREA ADJACENT TO THE WOODBURN SCHOOL DISTRICT AND DIOCESE OF OREGON.
2. PROVIDE A "SCHOOL ZONE SPEED LIMIT" DESIGN AS PER OREGON DEPARTMENT OF TRANSPORTATION GUIDELINES AROUND NELLIE MUIR SCHOOL.
3. SUBMIT UPDATE PLANS AND REQUESTED RIGHT-OF-WAY AND PUE DOCUMENTS TO DAGO GARCIA FOR DISTRIBUTIONS TO OTHER CITY DEPARTMENTS FOR THEIR FINAL REVIEW.

NOTE

STREET LIGHTING FOR THIS SUBDIVISION IS GOING TO BE UNDER PGE OPTION B.

PROJECT CONTACTS

OWNER:
STAFFORD DEVELOPMENT COMPANY
8840 SW HOLLY ST.
WILSONVILLE, OREGON 97070
CONTACT: MORGAN WILL
(503) 305-7647

SURVEYOR:
BARKER SURVEYING
3657 KASHMIR WAY SE
SALEM, OREGON 97317
CONTACT: GREGORY L. WILSON
(503) 588-8800 (P)
(503) 363-2469 (F)

GEOTECHNICAL ENGINEER:
GEOPACIFIC
14835 SW 72nd AVENUE
PORTLAND, OR 97224
CONTACT: JAMES D. IMBRIE
(503) 598-8445 (P)
(503) 941-9281 (F)

CIVIL ENGINEER:
EMERIO DESIGN, LLC
6445 SW FALLBROOK PL. STE. 100
BEAVERTON, OR 97008
CONTACT: ROY W. HANKINS, P.E.
(503) 746-8812 (P)
(503) 639-9592 (F)

SITE DATA

AREA:	18.37
ZONING:	RMN
LOT:	PARCEL 2 OF PARTITION PLAT 2018-075

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

COVER SHEET AND INDEX OF DRAWINGS

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

EMERIO Design
2677 WILLAMETTE ROAD, SUITE 1A
EUGENE, OR 97401
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REGISTERED PROFESSIONAL ENGINEER
84283
OREGON
MAY 13, 2015
ROY W. HANKINS
EXPIRES: 6/30/2021

SHEET 01 OF 32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\Civil\Phase 3B\471-001_01cvr, Layout: 01 COVER SHEET AND INDEX OF DRAWINGS, Plot Date: 9/10/2020 4:33 PM, by: Keelon Smith

GENERAL NOTES

1. CONTRACTOR SHALL PROCURE AND CONFORM TO ALL CONSTRUCTION PERMITS REQUIRED BY THE CITY OF WOODBURN, MARION COUNTY, AND OTHER AGENCIES.

2.. CONTRACTOR SHALL PROVIDE ALL BONDS AND INSURANCE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION.

3. ALL MATERIALS AND WORKMANSHIP FOR FACILITIES IN STREET RIGHT-OF-WAY OR EASEMENTS SHALL CONFORM TO THE APPLICABLE REGULATIONS, SPECIFICATIONS, CODES AND REQUIREMENTS OF THE CITY OF WOODBURN, MARION COUNTY, AMERICAN PUBLIC WORK ASSOCIATION OREGON CHAPTER (A.P.W.A.) STANDARD PLANS AND SPECIFICATIONS, THE OREGON SPECIFICATIONS STATE PLUMBING CODE, THE UNIFORM BUILDING CODE, THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY, AND THE OREGON HEALTH DIVISION (OHD)

4. UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DIRECTOR, CONSTRUCTION OF ALL PUBLIC FACILITIES SHALL BE DONE BETWEEN 7:00 A.M. AND 6:00 P.M., MONDAY THROUGH FRIDAY.

5. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENTS AND PROVIDE A COMPLETED PROJECT.

6. CONTRACTOR TO NOTIFY CITY, COUNTY, ODOT AND ALL UTILITY COMPANIES A MINIMUM OF 48 HOURS (2 BUSINESS DAYS) PRIOR TO START OF CONSTRUCTION BY CALLING "ONE CALL" AT 246-6699 AND ALL OTHER APPLICABLE AGENCIES, AND SHALL COMPLY WITH ALL OTHER REQUIREMENTS OF ORS 757.541 TO 757.571.

7. ANY INSPECTION BY THE CITY, COUNTY OR OTHER AGENCIES SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE APPLICABLE CODES AND AGENCY REQUIREMENTS.

8. CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, TRAFFIC CONES PER CITY, COUNTY AND ODOT REQUIREMENTS IN ACCORDANCE WITH THE MUTCD (INCLUDING OREGON AMENDMENTS). ACCESS TO DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. ALL TRAFFIC CONTROL MEASURES SHALL BE APPROVED AND IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITY.

9. RECORD DRAWINGS. THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF APPROVED DRAWINGS ON THE CONSTRUCTION SITE AT ALL TIMES WHEREON HE WILL RECORD ANY APPROVED DEVIATIONS IN CONSTRUCTION FROM THE APPROVED DRAWINGS, AS WELL AS THE STATION LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES ENCOUNTERED. THESE FIELD RECORD DRAWINGS SHALL BE KEPT UP TO DATE AT ALL TIMES AND SHALL BE AVAILABLE FOR INSPECTION BY THE CITY UPON REQUEST.

10. UPON COMPLETION OF CONSTRUCTION OF PUBLIC FACILITIES, CONTRACTOR SHALL SUBMIT A CLEAN SET OF FIELD RECORD DRAWINGS CONTAINING ALL AS-BUILT INFORMATION TO THE DESIGN ENGINEER FOR USE IN THE PREPARATION OF AS-BUILT DRAWINGS FOR SUBMITTAL TO THE CITY.

11. THE CONTRACTOR SHALL SUBMIT A SUITABLE MAINTENANCE BOND PRIOR TO FINAL PAYMENT WHERE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION.

12. CONTRACTOR SHALL CONFORM TO DEQ STORMWATER PERMIT NO. 1200C FOR CONSTRUCTION ACTIVITIES WHERE 1 ACRES OR MORE ARE DISTURBED.

13. THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE, PRIOR TO CONSTRUCTION, ANY ALTERATION OR VARIANCE FROM THESE PLANS. ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER AND THE CITY FOR APPROVAL.

EXISTING UTILITIES & FACILITIES

14. THE EXISTENCE AND APPROXIMATE LOCATION OF KNOWN UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE DRAWINGS WERE DETERMINED BY A SEARCH OF AVAILABLE PUBLIC RECORDS AND/OR FIELD SURVEYS. THE LOCATIONS AND DEPTHS OF THESE UTILITIES ARE FROM THESE RECORDS AND ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. NO RESPONSIBILITY IS ASSUMED BY EITHER THE OWNER, THE ENGINEER, NOR THE UTILITY COMPANIES FOR ACCURACY OF COMPLETENESS OF SUCH RECORDS.

15. ATTENTION: OREGON LOW 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 THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987).

16. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THIS SITE. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THESE DRAWINGS, SHALL BE REPAIRED OR REPLACE AT THE CONTRACTOR'S EXPENSE. EXISTING SURFACE FEATURES AND FENCING SHALL BE REPLACE IN KIND.

17. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED PRIOR TO STARTING ANY WORK.

18. CONTRACTOR SHALL POTHOLE TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION SHALL PROVIDE LAND DEVELOPMENT CONSULTANTS 72-HOURS NOTICE OF ANY POTENTIAL CONFLICTS.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF BURIED AND OVERHEAD UTILITIES.

20. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AND ELEVATIONS TO HIS OR HER SATISFACTION.

21. DEMOLITION WORK SHALL INCLUDE REMOVAL OF ALL STUMPS AND VEGETATION DEBRIS. CONFORMANCE WITH ALL REGULATIONS AND PERMITTING REQUIREMENTS FOR SUCH WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

22. ALL OPEN CUTTING OF EXISTING STREETS SHALL BE PATCHED WITH A.C., COLD (TEMPORARY) OR HOT MIX, AT THE CLOSE OF EACH WORK DAY. TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT.

23. CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING PROPERTY AND STREET MONUMENTS PRIOR TO CONSTRUCTION. ANY MONUMENTS DISTURBED DURING THE CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. THE MONUMENTS SHALL BE REPLACED WITHIN A MAXIMUM OF 90 DAYS, AND THE COUNTY SURVEYOR SHALL BE NOTIFIED IN WRITING AS REQUIRED BY ORS 209.150.

24. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES WHERE NEW FACILITIES CROSS. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING POTENTIAL UTILITY CONFLICTS FAR ENOUGH AHEAD OF CONSTRUCTION TO MAKE NECESSARY GRADE MODIFICATIONS WITHOUT DELAYING THE WORK. IF GRADE MODIFICATION IS NECESSARY, CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER, AND THE DESIGN ENGINEER SHALL OBTAIN APPROVAL FROM THE CITY ENGINEER PRIOR TO CONSTRUCTION. ALL UTILITY CROSSINGS SHALL BE POTHOLED AS NECESSARY PRIOR TO EXCAVATING OR BORING TO ALLOW THE CONTRACTOR TO PREVENT GRADE OR ALIGNMENT CONFLICTS.

25. ALL EXISTING 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 ON EQUAL OR BETTER-THAN-ORIGINAL CONDITION AND TO THE SATISFACTION OF THE CITY ENGINEER.

26. 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. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OF ABANDONED UTILITIES.

27. CONTRACTOR SHALL REMOVE ALL EXISTING SIGNS, MAILBOXES, FENCES, LANDSCAPING, ETC., AS REQUIRED TO AVOID DAMAGE DURING CONSTRUCTION AND REPLACE THEM TO EXISTING OR BETTER CONDITION.

28. ANY SEPTIC TANKS ENCOUNTERED DURING CONSTRUCTION SHALL BE PUMPED OUT. CONTRACTOR SHALL BREAK BOTTOM OF TANK AND BACKFILL WITH PEA GROVEL UNLESS OTHERWISE REQUIRED BY THE GOVERNING PUBLIC AGENCY. SEPTIC TANK REMOVAL TO BE IN ACCORDANCE WITH COUNTY SANITARIAN REQUIREMENTS.

29. ANY WELLS ENCOUNTERED SHALL BE ABANDONED PER STATE OF OREGON WATER RESOURCES DEPARTMENT REQUIREMENTS.

30. ANY FUEL TANKS ENCOUNTERED SHALL BE REMOVED AND DISPOSED OF PER STATE OF OREGON DEQ REQUIREMENTS. BACKFILL WITH COMPACTED GRANULAR MATERIAL.

GRADING, PAVING & DRAINAGE NOTES

31. CONTRACTOR TO REVIEW THE MOST CURRENT SOILS REPORT PREPARED BY GEO PACIFIC AND CONFORM TO ALL RECOMMENDATIONS LISTED IN THE REPORT.

32. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING CONSTRUCTION ACTIVITIES TO INSURE THAT PUBLIC STREETS AND RIGHT-OF-WAYS ARE KEPT CLEAN OF MUD. DUST OR DEBRIS. DUST ABATEMENT SHALL BE MAINTAINED BY ADEQUATE WATERING OF THE SITE BY THE CONTRACTOR.

33. UNLESS OTHERWISE NOTED, ALL GRADING, ROCKING AND PAVING TO CONFORM TO THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION 2018.

34. CLEAR AND GRUB WITHIN WORK LIMITS ALL SURFACE VEGETATION, TREES, STUMPS, BRUSH, ROOTS, ETC. DO NOT DAMAGE OR REMOVE TREES EXCEPT AS APPROVED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS. PROTECT ALL ROOTS TWO INCHES IN DIAMETER OR LARGER OF TREES TO BE SAVED.

35. STRIP WORK LIMITS PER THE GEOTECHNICAL RECOMMENDATIONS, REMOVING ALL ORGANIC MATERIAL WHICH CANNOT BE COMPACTED INTO A STABLE MASS. ALL TREES, BRUSH AND DEBRIS ASSOCIATED WITH CLEARING, STRIPPING OR GRADING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.

36. IMMEDIATELY FOLLOWING FINE GRADING OPERATIONS, COMPACT SUBGRADE TO 95% OF THE MAXIMUM DRY DENSITY PER AASHTO T-180 TEST METHOD (MODIFIED PROCTOR). SUBGRADE MUST BE INSPECTED AND APPROVED BY THE CITY PRIOR TO PLACING EMBANKMENTS OR BASE ROCK.

37. ALL FILLS WITHIN PUBLIC RIGHT-OF-WAYS AND EASEMENTS SHALL BE ENGINEERED; ADDITIONALLY, ANY FILLS OUTSIDE OF PUBLIC RIGHT-OF-WAYS WHICH ARE OVER 2 FEET IN DEPTH SHALL BE ENGINEERED. ENGINEERED FILLS SHALL BE CONSTRUCTED IN 6" LIFTS. EACH LIFT SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY PER AASHTO T-180 TEST METHOD (MODIFIED PROCTOR).

38. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, STRAIGHT GRADES SHALL BE RUN BETWEEN ALL FINISH GRADE ELEVATIONS AND/OR FINISH CONTOUR LINES SHOWN. FINISH PAVEMENT GRADES AT TRANSITION TO EXISTING PAVEMENT SHALL MATCH EXISTING PAVEMENT GRADES OR BE FEATHERED PAST JOINTS WITH EXISTING PAVEMENT AS REQUIRED TO PROVIDE A SMOOTH, FREE DRAINING SURFACE.

39. ALL PROPOSED ELEVATIONS SHOWN SHALL BE CONSIDERED TO BE FINISH SURFACE ELEVATIONS, INCLUDING TOPSOIL STRIPPINGS, UNLESS OTHERWISE NOTED.

40. CRUSHED ROCK SHALL CONFORM TO THE REQUIREMENTS OF SECTION 00641 (AGGREGATE SUBBASE, BASE, AND SHOULDERS) OF THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION 2018. COMPACT TO 95% OF THE MAXIMUM DRY DENSITY. WRITTEN COMPACTION TEST RESULTS MUST BE RECEIVED BY THE CITY PRIOR TO SCHEDULING PLACEMENT OF A.C. PAVEMENT.

41 A.C. PAVEMENT SHALL CONFORM TO THE REQUIREMENTS OF SECTION 00744 (ASPHALT CONCRETE PAVEMENT) OF THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION 2018. A.C. PAVEMENT SHALL BE COMPACTED TO A MINIMUM OF 92% OF MAXIMUM DENSITY AS DETERMINED BY THE RICE STANDARD METHOD.

42. ALL EXISTING OR CONSTRUCTED MANHOLES. CLEAN OUTS, MONUMENTS. GAS VALVES. WATER VALVES AND SIMILAR STRUCTURES SHALL BE ADJUSTED TO MATCH FINISH GRADE OF THE PAVEMENT, SIDEWALK, LANDSCAPED AREA OR MEDIAN STRIP WHEREIN THEY LIE.

43. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, NO CUT OR FILL SLOPES SHALL BE CONSTRUCTED STEEPER THAN 2H: 1V.

44. ALL PLANTER AREAS SHALL BE BACKFILLED WITH APPROVED TOP SOIL MINIMUM 8" THICK. STRIPPING MATERIALS SHALL NOT BE USED FOR PLANTER BACKFILL.

45. CONTRACTOR SHALL HYDROSEED ALL EXPOSED SLOPES AND DISTURBED AREAS WHICH ARE NOT SCHEDULED TO BE LANDSCAPED.

46. GRADING SHOWN ON THE DRAWINGS IS CRITICAL TO FUNCTIONING OF DETENTION SYSTEM AND SHALL BE STRICTLY FOLLOWED.

47. THE REMOVAL OF UNSUITABLE MATERIAL SHALL BE DONE IN CONSULTATION WITH THE SOILS ENGINEER. UNSUITABLE MATERIAL SHALL BE DISPOSED OF AS DETERMINED BY THE SOILS ENGINEER. IF SUCH MATERIAL IS REMOVED FROM THE SITE IT SHALL BE DONE AT THE CONTRACTOR'S SOLE EXPENSE.

48. CONTRACTOR TO HAVE SUFFICIENT NUMBER OF COMPACTION TESTS PERFORMED ON EACH LIFT TO MEET THE CITY OF WOODBURN REQUIREMENTS AT THE OWNER'S EXPENSE. TESTS SHALL BE PERFORMED BY A QUALIFIED TESTING AGENCY AND WRITTEN RESULTS SHALL BE PROVIDED TO THE APPROPRIATE AGENCY. SHOULD COMPACTION REQUIREMENTS NOT BE MET, CONTRACTOR SHALL RE-COMPACT THE FILL AND PAY ALL ADDITIONAL TESTING COSTS. TESTS SHALL BE TOKEN AT INTERVALS NOT GREATER THAN EVERY 100' IN THE PUBLIC STREET SECTION.

49. THE PAVING CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL CATCH BASINS, CLEANOUTS, VAULTS, ETC. THAT ARE AFFECTED BY CONSTRUCTION AND/OR FILL TO FINISH GRADE. STORM DRAIN INLET STRUCTURES SHALL BE ADJUSTED SO WATER FLOWS INTO THE STRUCTURE WITHOUT PONDING WATER.

50. DURING COMPACTION OF AGGREGATE BASE, MATERIALS SHALL BE MAINTAINED WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT. THE CONTRACTOR SHALL BEGIN COMPACTION OF EACH LAYER IMMEDIATELY AFTER THE MATERIAL IS SPREAD, AND CONTINUE UNTIL A DENSITY OF NOT LESS THAN 95% OF AASHTO T-180 HAS BEEN ACHIEVED.

51. THE SURFACE OF THE AGGREGATE BASE SHALL BE WITHIN -0.04 FOOT TO +0.02 FOOT OF PLAN ELEVATION AT ANY ONE POINT. THE FINAL SURFACE SHALL NOT DEVIATE AT ANY POINT MORE THAN 0.04 FOOT FROM THE BOTTOM OF A 12-FOOT STRAIGHTEDGE LAID IN ANY DIRECTION ON THE SURFACE OF THE ROADWAY.

52. ASPHALTIC CONCRETE PAVEMENTS WHICH DO NOT MEET SUBSTANTIAL COMPLIANCE REQUIREMENTS FOR COMPACTION. AND ARE DEEMED BY THE ENGINEER TO BE NOT SUITABLE FOR USE, WILL BE REJECTED. ANY REJECTED MATERIAL SHALL BE REMOVED. NO PAYMENT WILL BE MADE FOR THE REJECTED MATERIAL, OR FOR REMOVAL OF THE REJECTED MATERIAL.

53. ANY PAVEMENT WITH A RICE STANDARD DENSITY LESS THAN 92% SHALL BE DEEMED UNSUITABLE. AND WILL BE REJECTED. ANY REJECTED MATERIAL SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.

<u>CURBS & SIDEWALKS</u>

54. UNLESS OTHERWISE SHOWN OR INDICATED ON THE DRAWINGS, 6-INCHES NOMINAL CURB EXPOSURE USED FOR DESIGN OF ALL PARKING LOT AND STREET GRADES.

55. CONTRACTOR SHALL PROVIDE A MINIMUM OF 2 WEEP HOLES PER LOT TO PROVIDE FOR LOT DRAINAGE. WEEP HOLES SHALL ALSO BE PROVIDED AS REQUIRED FOR ADDITIONAL DRAIN PIPES SHOWN ON THE DRAWINGS. CONTRACTOR SHALL INSTALL DRAIN PIPES FROM EACH WEEP HOLE TO THE BOCK OF SIDEWALK LOCATION PRIOR TO ACCEPTANCE OF THE CURBING BY THE CITY. WEEP HOLES INSTALLED IN EXISTING CURBS SHALL BE CORE DRILLED.

56. CURBS SHALL BE STAMPED WITH ON 'S' OR A 'W' AT THE POINT WHERE EACH SANITARY SEWER LATERAL OR WATER SERVICE LATERAL CROSSES THE CURB, RESPECTIVELY. LETTERS SHALL BE A MINIMUM OF 2-INCHES HIGH.

57. CONTRACTOR SHALL CONSTRUCT HANDICAP ACCESS RAMPS AT ALL INTERSECTIONS IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS AT THE TIME OF CONSTRUCTION.

58. SIDEWALKS AND DRIVEWAYS SHALL BE CONSTRUCTED TO THE FULL THICKNESS SHOWN.

59. WHERE TRENCH EXCAVATION REQUIRES REMOVAL OF PCC CURBS AND/OR SIDEWALKS, THE CURBS AND/OR SIDEWALKS SHALL BE SAW CUT AND REMOVED AT A TOLLED JOINT UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE CITY. THE SOW CUT LINES SHOWN THE DRAWINGS ARE SCHEMATIC AND NOT INTENDED TO SHOW THE EXACT ALIGNMENT OF SUCH CUTS.

PIPED UTILITIES

60. CONTRACTOR SHALL COORDINATE AND PAY ALL COSTS ASSOCIATED WITH CONNECTING TO EXISTING WATER, SANITARY SEWER AND STORM SEWER FACILITIES.

61. UNLESS OTHERWISE NOTED. MATERIALS AND WORKMANSHIP FOR WATER, SANITARY SEWER AND STORM DRAIN SHALL CONFORM TO OREGON APWA STANDARD SPECIFICATIONS, AND CITY OF WOODBURN REQUIREMENTS.

62. BEDDING AND BACKFILL. ALL PIPES SHALL BE BEDDED WITH MINIMUM 4-INCHES OF 3/4" MINUS CRUSHED ROCK BEDDING AND BACKFILLED WITH COMPACTED 3/4" MINUS CRUSHED ROCK IN THE PIPE ZONE (CRUSHED ROCK SHALL EXTEND A MINIMUM OF 12-INCHES OVER THE TOP OF THE PIPE IN ALL CASES). CRUSHED ROCK TRENCH BACKFILL SHALL BE USED UNDER ALL IMPROVED AREAS, INCLUDING SIDEWALKS.

63. CONTRACTOR SHALL ARRANGE FOR AND PAY ALL COSTS TO ABANDON EXISTING SEWER AND WATER SERVICES NOT SCHEDULED TO REMAIN IN SERVICE.

64. ALL PIPED UTILITIES ABANDONED IN PLACE SHALL HAVE ALL OPENINGS CLOSED WITH CONCRETE PLUGS WITH A MINIMUM LENGTH EQUAL TO 2 TIMES THE DIAMETER OF THE ABANDONED PIPE.

65. THE END OF ALL UTILITY STUBS SHALL BE MARKED WITH A 2 X 4 PAINTED WHITE AND WIRED TO PIPE STUB. THE TYPE OF UTILITY SHALL BE CLEARLY LABELED ON THE 2 X 4, I.E. "SANITARY SEWER", "STORM DRAIN".

66. CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT AND FACILITIES REQUIRED FOR TESTING ALL UTILITY PIPING IN ACCORDANCE WITH CITY CONSTRUCTION SPECIFICATIONS.

67. TRACER WIRE. ALL PUBLIC WATER, SANITARY AND STORM SEWER PIPING SHALL HAVE AN ELECTRICALLY CONDUCTIVE INSULATED 12 GAUGE COPPER TRACER WIRE THE FULL LENGTH OF THE INSTALLED PIPE, USING BLUE WIRE FOR WATER AND GREEN FOR STORM AND SANITARY PIPING. TRACER WIRE SHALL BE EXTENDED UP INTO ALL VALVE BOXES, AND MANHOLES AND CATCH BASINS. TRACER WIRE PENETRATIONS INTO MANHOLES SHALL BE WITHIN 18 INCHES OF THE RIM ELEVATION AND ADJACENT MANHOLE STEPS. THE TRACER WIRE SHALL BE TIED TO THE TOP MANHOLE STEP OR OTHERWISE SUPPORTED TO ALLOW RETRIEVAL FROM THE OUTSIDE OF THE MANHOLE.

68. DETECTIBLE OR NON-DETECTABLE ACID AND ALKALI RESISTANT SAFETY WARNING TAPE SHALL BE PROVIDED ALONG THE FULL LENGTH OF ALL SANITARY SEWER AND STORM DRAIN LATERALS AND ALONG ALL WATER, SANITARY SEWER AND STORM DRAIN MAINLINE SEGMENTS NOT LOCATED UNDER SIDEWALKS OR PAVED PORTIONS OF PUBLIC STREETS. UNDERGROUND WARNING TAPE SHALL BE CONTINUOUS THE ENTIRE LENGTH OF SERVICE LATERALS INSTALLED FROM THE MAINLINE TO THE BACK OF THE PUE 6 TO 12" ABOVE THE PIPE.

69. NO TRENCHES IN ROADS OR DRIVEWAYS SHALL BE LEFT IN ON OPEN CONDITION OVERNIGHT. ALL SUCH TRENCHES SHALL BE CLOSED BEFORE THE END WORK DAY AND NORMAL TRAFFIC FLOWS RESTORED.

WATER LINES

70. CITY FORCES TO OPERATE ALL VALVES, INCLUDING FIRE HYDRANTS, ON EXISTING PUBLIC MAINS.

71. ALL WATER MAINS SHALL BE CLASS 52 DUCTILE IRON PIPE. ALL FITTINGS 4 INCHES THROUGH 24 INCHES IN DIAMETER SHALL BE DUCTILE IRON FITTINGS IN CONFORMANCE WITH AWWA C-153 OR AWWA C-110. THE MINIMUM WORKING PRESSURE FOR ALL MJ COST IRON OR DUCTILE IRON FITTINGS 4 INCHES THROUGH 24 INCHES IN DIAMETER SHALL BE 350 PSI FOR MJ FITTINGS AND 250 PSI FOR FLANGED FITTINGS.

72. UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER, ALL VALVES SHALL BE FLANGE CONNECTED TO ADJACENT TEES OR CROSSES.

73. WATER SERVICE PIPE ON THE PUBLIC SIDE OF THE METER SHALL BE TYPE K SOFT COPPER TUBING CONFORMING TO ASTM B-88.

74. UNLESS OTHERWISE NOTED, WATER SERVICE PIPE ON THE PRIVATE SIDE OF THE METER SHALL BE SCHEDULE 40 PVC. COMPLY WITH MARION COUNTY PLUMBING PERMIT.

75. DOMESTIC AND FIRE BACKFLOW PREVENTION DEVICES AND VAULTS SHALL CONFORM TO REQUIREMENTS OF PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION.

76. CONTRACTOR SHALL INSTALL TEMPORARY PLUG AND BLOWOFF AS REQUIRED AT THE END OF WATERLINE OR OTHER LOCATIONS FOR FLUSHING, TESTING, AND CHLORINATION AS NEEDED.

77. THE WORK SHALL BE PERFORMED IN A MANNER DESIGNATED TO MAINTAIN WATER SERVICE TO BUILDINGS SUPPLIED FROM THE EXISTING WATERLINES. IN NO CASE SHALL SERVICE TO ANY MAIN LINE OR BUILDING BE INTERRUPTED FOR MORE THAN FOUR (4) HOURS IN ANYONE DAY. CONTRACTOR SHALL NOTIFY THE CITY AND ALL AFFECTED RESIDENTS AND BUSINESSES A MINIMUM OF 24 BUSINESS HOURS (ONE (1) BUSINESS DAY) PRIOR TO ANY INTERRUPTION OF SERVICE.

78. SANITARY SEWER LATERAL CROSSINGS. WHERE SANITARY SEWER LINES CROSS ABOVE OR BELOW WITH 18-INCHES VERTICAL SEPARATION BELOW A WATERLINE, SEWER MAINS AND/OR LATERAL SHALL BE REPLACED WITH C-900 PVC (DRI8) PIPE AT THE CROSSING. CENTER ONE FULL LENGTH (20') OF PVC PIPE CONFORMING TO AWWA C-900 (DR 18) AT THE CROSSING. CONNECT TO THE EXISTING SEWER LINES WITH APPROVED RUBBER COUPLINGS.

79. ALL WATER LINE PIPE SHALL HAVE A MINIMUM OF 36 INCHES OF COVER TO FINISH GRADE. BACKFILL MUST BE COMPACTED TO A DENSITY OF 92% IN IMPROVED OR STRUCTURAL FILL AREAS. MINIMUM COMPACTION IN UNPAVED NON-STRUCTURAL FILL AREAS IS 90%. COMPACTION IS TO BE PER AASHTO T -180.

80. ALL TEES, BENDS AND ENDS OF WATER LINES SHALL BE RESTRAINED WITH MECHANICAL JOINTS (MEGALUG SERIES 1100), OR APPROVED EQUAL. USE FIELD LOCK GASKETS IN ALL PUSH-ON PIPE JOINTS.

B1. ALL WATER LINES SHALL BE THOROUGHLY FLUSHED AND CHLORINATED. POTABLE WATER TEST SHALL BE APPROVED BY THE OREGON STATE HEALTH DEPORTMENT AND CITY OF WOODBURN PRIOR TO ANY METERED SERVICE HOOKUP. CONTRACTOR SHALL INSTALL TEMPORARY PLUG AND BLOWOFF AS REQUIRED AT THE END OF WATERLINE FOR FLUSHING, TESTING AND CHLORINATION. WATER LINES SHALL BE PRESSURE TESTED PER AWWA C-600 AS LISTED BY AWWA. WATER LINE DISINFECTION SHALL CONFORM TO AWWA C-601 AND CITY OF WOODBURN REQUIREMENTS.

82. PROVIDE TRACE WIRE FOR ALL MAINS.

83. ALL WATER MAINS SHALL BE RESTRAINED MECHANICAL JOINTS, FIELD-LOCK GASKETS AND THRUST BLOCKS AS SPECIFIED. ALL FITTINGS SHALL BE RESTRAINED.

84. MINIMUM 18LF RESTRAINED PIPE. ALL MECHANICAL JOINTS SHALL BE RESTRAINED WITH MEGALUG SERIES 1100, OR APPROVED EQUAL. USE FIELD LOCK GASKETS IN ALL PUSH-ON PIPE JOINTS A MINIMUM OF 18LF FROM FITTING.

85. 8" D.I. 45° MJ BENDS SHALL BE INSTALLED WITH RETAINER GLANDS AND THRUST BLOCKS, AS SPECIFIED, ALL FITTINGS SHALL BE RESTRAINED.

86. 8" D.I. 45° FLG BENDS SHALL BE INSTALLED WITH RETAINER GLANDS AND THRUST BLOCKS, AS SPECIFIED. ALL FITTINGS SHALL BE RESTRAINED.

87. 8" D.I. MJ TEE FITTINGS SHALL BE RESTRAINED WHEN INSTALLED.

88. 4" STANDARD BLOWOFF ASSEMBLY (TEMPORARY FOR TESTING). SEE DETAIL 5000-5. BLOWOFF ASSEMBLY SHALL BE REMOVED PRIOR TO FINAL CONNECTION TO EXISTING VALVE.

89. CONNECT NEW WATER MAIN TO EXISTING VALVE AFTER ALL TESTING IN NEW WATER MAIN IS COMPLETED AND APPROVED BY THE CITY. PRIOR TO FINAL CONNECTION CONTRACTOR SHALL VERIFY THAT EXISTING VALVE IS NOT LEAKING

STORM DRAINS

90. STORM DRAIN PIPE MATERIALS TO CONFORM TO THE CONSTRUCTION DRAWINGS AND CITY REQUIREMENTS. CONTRACTOR SHALL USE UNIFORM PIPE MATERIAL ON EACH PIPE RUN BETWEEN STRUCTURES UNLESS OTHERWISE DIRECTED OR APPROVED. JOINTED HDPE PIPE SHALL NOT BE USED FOR SLOPES EXCEEDING TEN PERCENT (10%).

91. CATCH BASINS AND JUNCTION BOXES SHALL BE SET SQUARE WITH BUILDINGS OR WITH THE EDGE OF THE PARKING LOT OR STREET WHEREIN THEY LIE. STORM DRAIN INLET STRUCTURES AND PAVING SHALL BE ADJUSTED SO WATER FLOWS INTO THE STRUCTURE WITHOUT PONDING WATER.

92. UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER, ALL STORM DRAIN CONNECTIONS SHALL BE BY MANUFACTURED TEES.

93. UNLESS OTHERWISE SHOWN OR DIRECTED, INSTALL STORM DRAIN PIPE IN ACCORDANCE WITH MANUFACTURES INSTALLATION GUIDELINES.

94. MANDREL TESTING. CONTRACTOR SHALL CONDUCT DEFLECTION TEST OF FLEXIBLE STORM DRAIN PIPES (I.E. HDPE, PVC, ETC.) BY PULLING AN APPROVED MANDREL THROUGH THE COMPLETED PIPE LINE FOLLOWING TRENCH COMPACTION. THE DIAMETER OF THE MANDREL SHALL BE 95% OF THE INITIAL PIPE DIAMETER. TEST SHALL BE CONDUCTED NOT MORE THAN 30 DAYS AFTER THE TRENCH BACKFILLING AND COMPACTION HAS BEEN COMPLETED.

95. CLEANING. PRIOR TO MANDREL TESTING OR FINAL ACCEPTANCE, FLUSH AND CLEAN ALL DRAINS, AND REMOVE ALL FOREIGN MATERIAL FROM THE MAINLINES, MANHOLES AND CATCH BASINS.

96. STORM DRAIN PIPE SHALL BE AS SHOWN ON THE PLANS.

97. CONCRETE AND PVC PIPE SHALL BE LAID WITH RUBBER RING JOINTS. ALL STORM PIPE JOINTS SHALL BE WATERTIGHT REGARDLESS OF SPECIFIED OR SELECTED MATERIAL.

98. MINIMUM COVER ON STORM LINES IS 36" FROM THE TOP OF THE PIPE TO FINISH GRADE. BACKFILL MUST BE COMPACTED TO A DENSITY OF 92% IN IMPROVED OR STRUCTURAL FILL AREAS. MINIMUM COMPACTION IN UNPAVED, NON-STRUCTURAL FILL AREAS IS 90%. COMPACTION IS TO BE PER AASHTO T-I80. LINES WITH LESS THAN 36" COVER SHALL BE REINFORCED CONCRETE. WHEN INSTALLED IN TRAFFIC AREAS PROVIDE A CONCRETE CAP.

99. THE LOCATION AND/OR STATIONING AND THE DEPTH FROM THE INVERT FROM THE TOP OF CURB TO THE INVERT ELEVATION OF ALL STORM DRAIN LATERALS SHALL BE RECORDED BY THE CONTRACTOR AND PROVIDED TO THE ENGINEER.

SANITARY SEWERS

100. INSTALL 2X4 MARKER BEHIND SERVICE PLUG AS INDICATED IN DETAIL 603. MARK DEPTH OF INVERT ON POST.

101. UNLESS OTHERWISE SHOWN, SANITARY SEWER PIPE SHALL BE PVC IN CONFORMANCE WITH ASTM D-3034, SDR 35. ALL OTHER APPURTENANCES AND INSTALLATION TO CONFORM TO THE CITY SPECIFICATIONS AND STANDARD DRAWINGS.

102. ALL PRECAST MANHOLES SHALL BE PROVIDE WITH INTEGRAL RUBBER BOOTS. WHERE MANHOLES WITH INTERNAL RUBBER BOOTS ARE NOT USED, A FLEXIBLE JOINT SHALL BE PROVIDED ON ALL MAINLINES WITHIN 1.5 FEET OF THE OUTSIDE FACE OF THE MANHOLE. LOCKDOWN LIDS REQUIRED ON ALL MANHOLES OUTSIDE OF PUBLIC RIGHT-OF-WAY.

103. OPENINGS FOR CONNECTIONS TO EXISTING MANHOLES SHALL BE MODE BY SAWCUTTING OR CORE-DRILLING EXISTING MANHOLE STRUCTURES. USE OF PNEUMATIC JACKHAMMERS SHALL BE PROHIBITED. CONNECTIONS TO BE WATERTIGHT AND SHALL PROVIDE A SMOOTH FLOW INTO AND THROUGH THE MANHOLE. SMALL CHIPPING HAMMERS OR SIMILAR LIGHT TOOLS WHICH WILL NOT DAMAGE OR CRACK THE MANHOLE BASE MAY BE USED TO SHAPE CHANNELS OR ENLARGE EXISTING OPENINGS IF AUTHORIZED BY CITY ENGINEER.

104. LEAKAGE TESTING. SANITARY SEWER PIPE AND APPURTENANCES SHALL BE TESTED FOR LEAKAGE. LEAKAGE TESTS SHALL INCLUDE AN AIR TEST OF ALL SEWER MAINS AND LATERALS AND VACUUM TESTING OF THE MANHOLES IN ACCORDANCE WITH CITY OF WOODBURN PROCEDURES.

105. CLEANING. PRIOR TO MANDREL TESTING AND/OR TV INSPECTION, FLUSH AND CLEAN ALL SEWERS OF ALL FOREIGN MATERIAL FROM THE MAINLINES AND MANHOLES.

106. CONTRACTOR SHALL CONDUCT DEFLECTION TEST OF FLEXIBLE SANITARY SEWER PIPES BY PULLING AN APPROVED MANDREL THROUGH THE COMPLETED PIPE LINE FOLLOWING TRENCH COMPACTION. THE DIAMETER OF THE MANDREL SHALL BE 95% OF THE INITIAL PIPE DIAMETER. TEST SHALL BE CONDUCTED NOT MORE THAN 30 DAYS AFTER THE TRENCH BACKFILLING AND COMPACTION HAS BEEN COMPLETED.

107. UPON COMPLETION OF ALL SEWER CONSTRUCTION, TESTING AND REPAIR, THE CONTRACTOR SHALL CONDUCT A COLOR TV ACCEPTANCE INSPECTION OF ALL MAINLINES IN ACCORDANCE WITH APWA 303.3.11. THE TV INSPECTION SHALL BE CONDUCTED BY ON APPROVED TECHNICAL SERVICE WHICH IS EQUIPPED TO MAKE AUDIOVISUAL RECORDINGS OF THE TV INSPECTIONS ON CD. UNLESS OTHERWISE REQUIRED BY AGENCY WITH JURISDICTION, A STANDARD 1" DIAMETER BALL SHALL BE SUSPENDED IN FRONT OF THE CAMERA DURING THE INSPECTION. SUFFICIENT WATER TO REVEAL LOW AREAS OR REVERSE GRADES SHALL BE DISCHARGED INTO THE PIPE IMMEDIATELY PRIOR TO INITIATION OF THE TV INSPECTION. THE CD AND WRITTEN REPORT SHALL BE DELIVERED TO THE CITY. TV REPORT SHALL BE DONE BY AN APPROVED CITY OF WOODBURN PROGRAM. CONTACT CITY OF WOODBURN FOR APPROVED PROGRAM PRIOR TO TV INSPECTION.

108. THE LOCATION AND/OR STATIONING AND THE VERTICAL DISTANCE FROM THE TOP OF CURB 8TO THE INVERT ELEVATION OF ALL SEWER SERVICE LATERALS SHALL BE RECORDED BY THE CONTRACTOR AND PROVIDED TO THE ENGINEER.

109. MINIMUM COVER ON PUBLIC SANITARY SEWER LINE IS 36" FROM THE TOP OF THE PIPE TO FINISHED GRADE. BACKFILL MUST BE COMPACTED TO A DENSITY NO LESS THAN 92% IN IMPROVED OR STRUCTURAL FILL AREAS. MINIMUM COMPACTION IN UNPAVED, NON STRUCTURAL FILL AREAS IS 90%. COMPACTIONS TO BE PER AASHTO T-180. MAXIMUM COMPACTION TEST SPACING OVER PUBLIC SANITARY LINES IS 150'.

110. ALL SANITARY SERVICE LATERAL CONNECTIONS AT THE MAIN ARE TO BE TEES UNLESS OTHERWISE NOTED.

111. MAINTAIN MINIMUM 10 FOOT HORIZONTAL CLEAR DISTANCE BETWEEN WATER AND SANITARY SEWER LINES EXCEPT AT CROSSINGS. VERTICAL SEPARATION SHALL BE A MINIMUM OF 18 INCHES CLEAR DISTANCE WHERE WATER LINES CROSS OVER SANITARY SEWER LINES. PVC C-900 PIPE SHALL BE USED (FOR SEWER) 10 FEET ON EITHER SIDE OF THE CROSSING WHEN THE CLEAR DISTANCE BETWEEN THE WATER LINE AND SANITARY SEWER LINE IS LESS THAN 18 INCHES.

112. ALL SEWER SERVICE LATERALS SHALL EXTEND A MINIMUM OF 5 FEET BEYOND P.U.E. INTO EACH LOT. THE MINIMUM GRADE FOR LATERALS SHALL BE 2.0% EXCEPT WHERE NOTED. SANITARY SEWER SERVICE LATERALS SHALL BE 4" DIAMETER UNLESS OTHERWISE NOTED ON PLANS.

112A. SANITARY SEWER TV REPORTS SHALL BE RECORDED WITH VIDEO INSPECTION USING THE LATEST VERSION OF NASSCO'S PACP/MACP. FURNISH RECORDINGS ON NASSCO'S PACP/MACP PROGRAM AND INVENTORY SHEETS ON CD INCLUDING A TEST FILE TO INDICATE THE PROJECT NUMBER AND NAME, DATE OF INSPECTION, PIPE SEGMENT NUMBER, CONTRACTOR'S NAME AND WHETHER IT IS A PRE-CONSTRUCTION OR POST-CONSTRUCTION VIDEO, FILENAMES, AND DESCRIPTION OF THE FILE CONTENTS.

<u>STREET LIGHTS</u>

113. STREET LIGHTS SHALL BE INSTALLED AFTER ALL OTHER EARTHWORK AND PUBLIC UTILITY INSTALLATIONS ARE COMPLETED AND AFTER ROUGH GRADING OF THE PROPERTY IS ACCOMPLISHED TO PREVENT DAMAGE TO THE POLES.

114. STREET LIGHTS POLES SHALL BE SET TO A DEPTH AS SPECIFIED BY THE MANUFACTURER AND PGE, BUT NOT LESS THAN 5 FEET.

115. STREET LIGHT POLES SHALL BE INSTALLED WITHIN ONE DEGREE (1°) OF PLUMB.

<u>PRIVATE UTILITIES</u>

116. UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR APPROVED BY JURISDICTION HAVING AUTHORITY, ALL NEW PRIVATE UTILITIES (POWER, CABLE TV, TELEPHONE & GAS) SHALL BE INSTALLED UNDERGROUND. INSTALLATION OF PRIVATE UTILITIES IN A COMMON TRENCH WITH WATER, SANITARY SEWER OR STORM SEWER IS PROHIBITED.

117. CONTRACTOR SHALL COORDINATE WITH POWER, TELEPHONE, TV COMPANY FOR LOCATION OF VAULTS, PEDESTALS, ETC. ALL ABOVE-GRADE FACILITIES SHALL BE PLACED IN A LOCATION THE PROPOSED SIDEWALK LOCATION.

118. POWER, TELEPHONE AND TV TRENCHING AND CONDUITS SHALL BE INSTALLED PER UTILITY COMPANY REQUIREMENTS WITH PULL WIRE. CONTRACTOR SHALL VERIFY WITH UTILITY COMPANY FOR SIZE AND TYPE OF CONDUIT PRIOR TO CONSTRUCTION. ALL CHANGES IN DIRECTION OF UTILITY CONDUIT RUNS SHALL HAVE LONG RADIUS STEEL BENDS.

119. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH PRIVATE UTILITIES FOR RELOCATION OF POWER POLES, VAULTS, ETC.

ROOF DRAINS

120. ALL RUNOFF FROM ROOF SURFACES SHALL BE CONVEYED UNDERGROUND THROUGH THE CURB FACE TO THE STREET AT THE INDIVIDUAL LOT FRONTAGE, OR TO THE PUBLIC STORM SYSTEM

GENERAL NOTE 3A

THE REQUIREMENTS OF THE CITY OF WOODBURN INCLUDE THE SMITH CREEK DEVELOPMENT FINAL ORDER (NOVEMBER 14, 2018) AND ITS CONDITIONS OF APPROVAL.

LEGEND:

Some Symbols shown may not be used on map

DECIDUOUS TREE	UTILITY AND LIGHT POLE
EVERGREEN TREE	UTILITY POLE
STORM SEWER MANHOLE	LIGHT POLE
CATCH BASIN	GUY WIRE
SANITARY SEWER CLEANOUT	ELECTRIC BOX
SANITARY SEWER MANHOLE	ELECTRIC METER
WATER VALVE	ELECTRICAL POWER PEDESTAL
WATER METER	ELECTRIC RISER
FIRE HYDRANT	HEAT PUMP
GAS VALVE	OVERHEAD LINE (XOH)
GAS METER	GAS LINE (XG)
BOLLARD	ELECTRICAL LINE
SIGN	COMMUNICATIONS LINE (XCOM)
MAILBOX	SANITARY SEWER LINE (XSS)
COMMUNICATIONS PEDESTAL	STORM DRAIN LINE (XSD)
COMMUNICATIONS MANHOLE	WATER LINE (XW)
COMMUNICATIONS BOX	FENCE LINE
STORM OUTFALL	GAS RISER
FOUND MONUMENT	DOWN SPOUT TO SPLASH GUARD/GROUND
DOWN SPOUT TO STORM SYSTEM	GAS STUB
WELL HEAD	WATER BLOWOFF

471-001

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

CONSTRUCTION NOTES & LEGEND

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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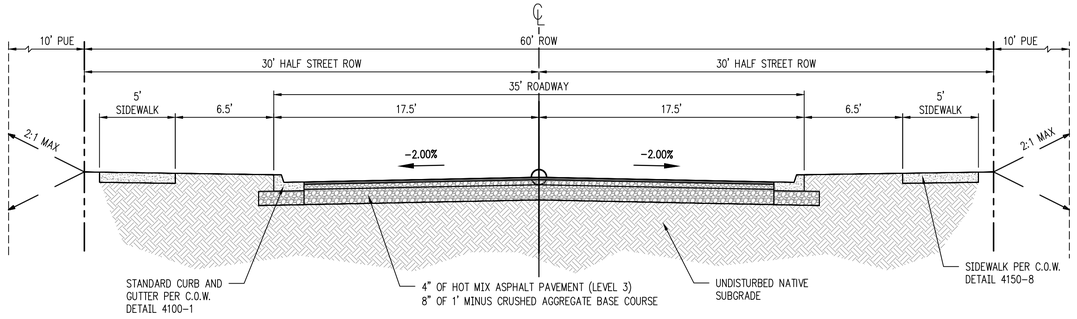
REGISTERED PROFESSIONAL ENGINEER 84283 OREGON JULY 13, 2010 ROY W. HANKINS
EXPIRES: 6/30/2021

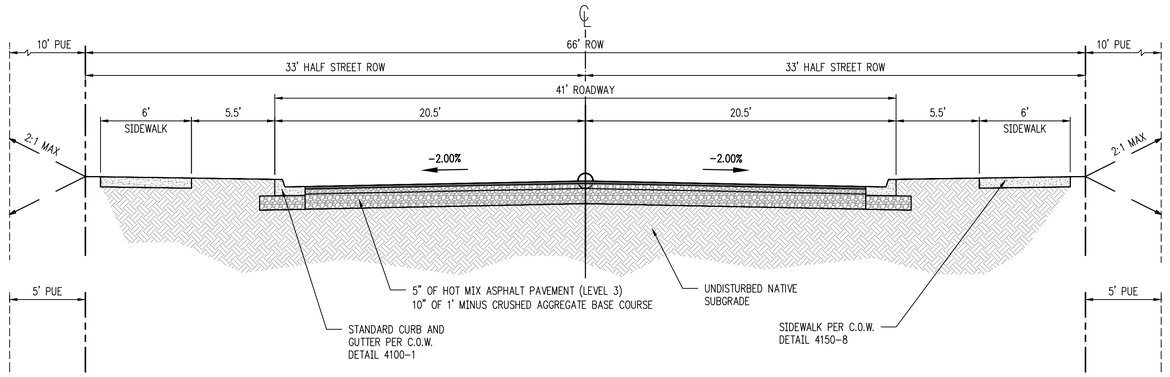
SHEET 02 OF 32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civ\Phase 3B\471-001_02note, Layout: 02 CONSTRUCTION NOTES & LEGEND, Plot Date: 9/10/2020 4:33 PM, by: Keelan Smith



DESANTIS DRIVE, AUSTIN AVENUE, YVONNE STREET, CORNWELL STREET, LANA DRIVE, RITA DRIVE - TYPICAL SECTION

SCALE: 1"=5'



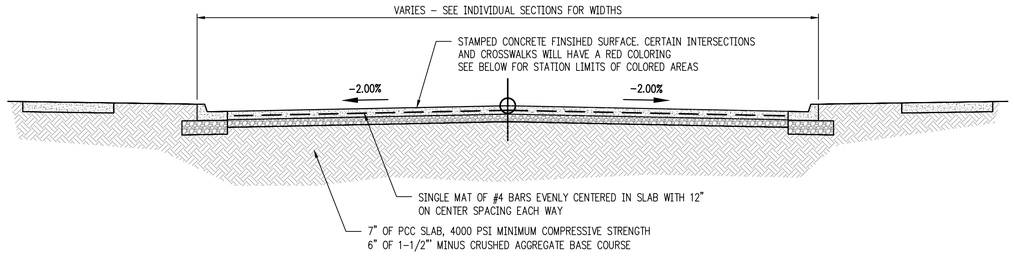
5' PUE (STA 43+42.47 TO 57+54.80)

5' PUE (STA 53+34.15 TO 57+54.80)

SEE NOTE 1 UNDER REVISION NOTES ON SHEET 1

KILLIAN SPRING DRIVE - TYPICAL SECTION

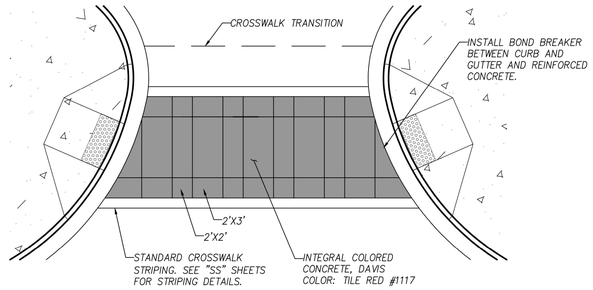
SCALE: 1"=5'



STAMPED CONCRETE CROSSWALKS - TYPICAL SECTION

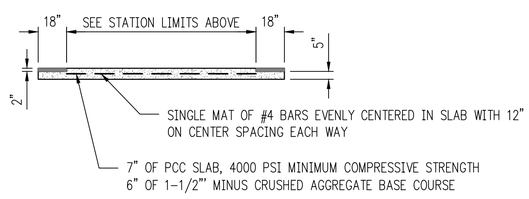
SCALE: NTS

KILLIAN SPRING DRIVE (STA 49+42.32 TO 49+54.31) COLORED
KILLIAN SPRING DRIVE (STA 52+00.10 TO 52+12.10) COLORED



CONCRETE CROSSWALK SECTION

N.T.S.



CONCRETE CROSSING DETAIL

TYPICAL SECTION NOTES:

1	GEOTEXTILE FABRIC SHALL BE INSTALLED DURING WET WEATHER CONDITIONS

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

TYPICAL STREET SECTIONS

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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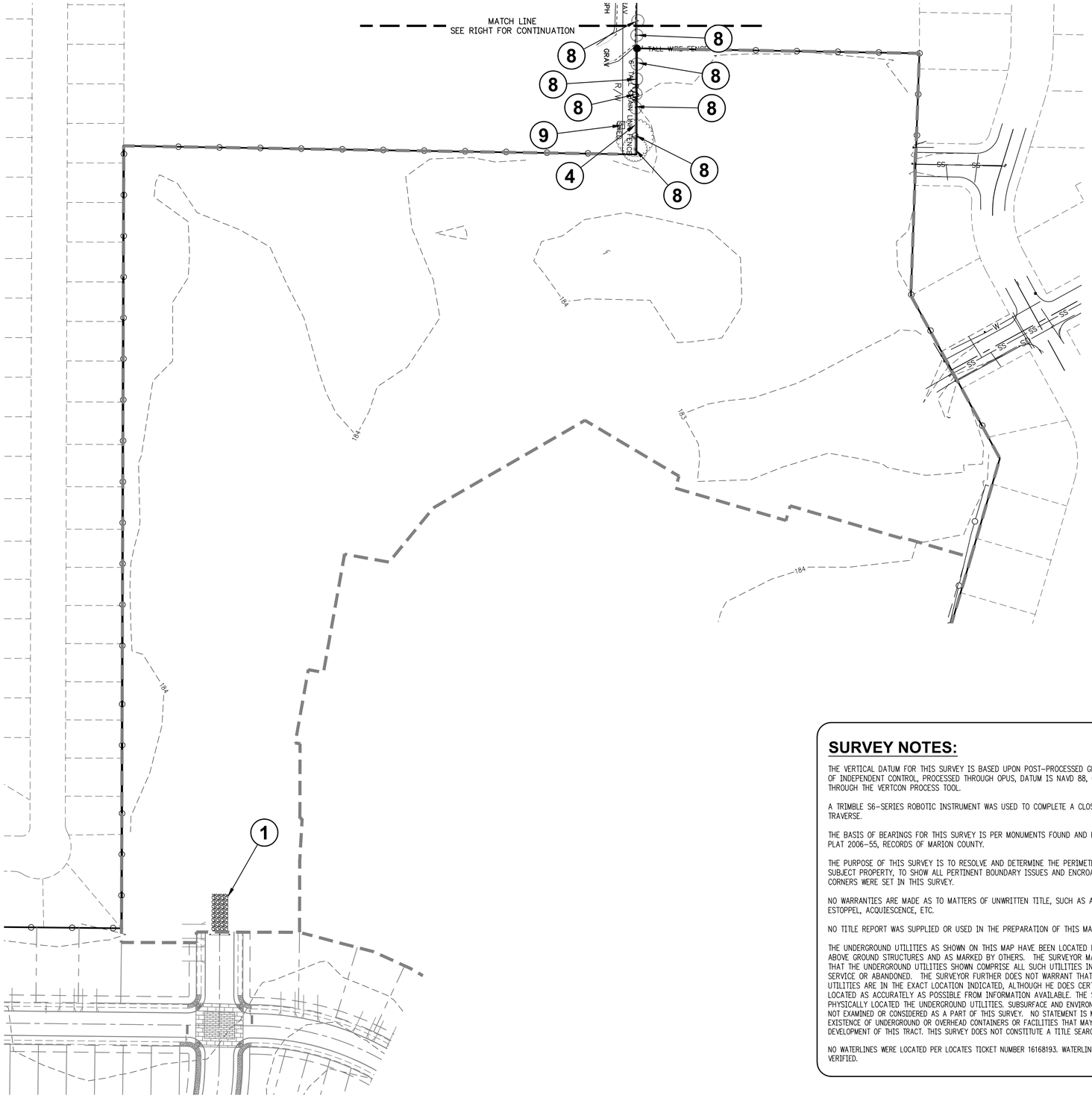
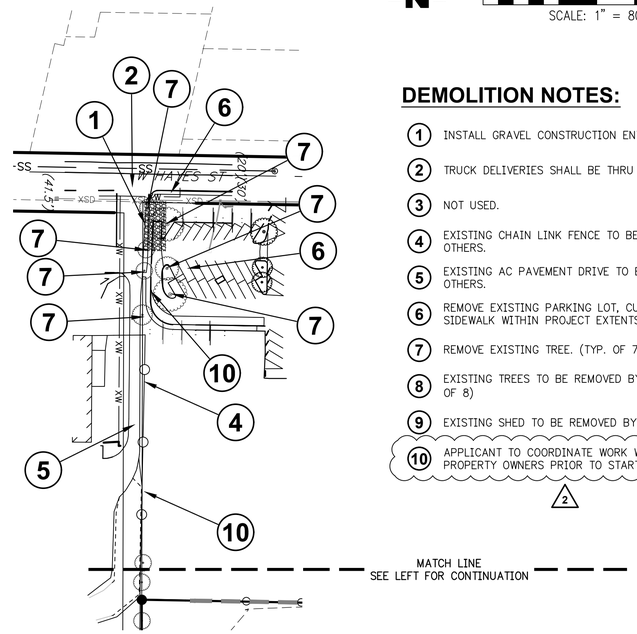
OREGON
MAY 13, 2016
ROY W. HAWKINS
EXPIRES: 6/30/2021

SHEET 03 OF 32





80' 0 40' 80' 160'

SCALE: 1" = 80'

DEMOLITION NOTES:

1. INSTALL GRAVEL CONSTRUCTION ENTRANCE.
2. TRUCK DELIVERIES SHALL BE THRU PARR ROAD ONLY.
3. NOT USED.
4. EXISTING CHAIN LINK FENCE TO BE REMOVED BY OTHERS.
5. EXISTING AC PAVEMENT DRIVE TO BE REMOVED BY OTHERS.
6. REMOVE EXISTING PARKING LOT, CURB, AND SIDEWALK WITHIN PROJECT EXTENTS.
7. REMOVE EXISTING TREE. (TYP. OF 7)
8. EXISTING TREES TO BE REMOVED BY OTHERS. (TYP. OF 8)
9. EXISTING SHED TO BE REMOVED BY OTHERS.
10. APPLICANT TO COORDINATE WORK WITH ADJACENT PROPERTY OWNERS PRIOR TO STARTING WORK.

SURVEY NOTES:

THE VERTICAL DATUM FOR THIS SURVEY IS BASED UPON POST-PROCESSED GPS STATIC OBSERVATION OF INDEPENDENT CONTROL, PROCESSED THROUGH OPUS, DATUM IS NAVD 88, CONVERTED TO NGVD 29 THROUGH THE VERTCON PROCESS TOOL.

A TRIMBLE S6-SERIES ROBOTIC INSTRUMENT WAS USED TO COMPLETE A CLOSED LOOP FIELD TRAVERSE.

THE BASIS OF BEARINGS FOR THIS SURVEY IS PER MONUMENTS FOUND AND HELD PER PARTITION PLAT 2006-55, RECORDS OF MARION COUNTY.

THE PURPOSE OF THIS SURVEY IS TO RESOLVE AND DETERMINE THE PERIMETER BOUNDARY OF THE SUBJECT PROPERTY, TO SHOW ALL PERTINENT BOUNDARY ISSUES AND ENCROACHMENTS. NO PROPERTY CORNERS WERE SET IN THIS SURVEY.

NO WARRANTIES ARE MADE AS TO MATTERS OF UNWRITTEN TITLE, SUCH AS ADVERSE POSSESSION, ESTOPPEL, ACQUIESCENCE, ETC.

NO TITLE REPORT WAS SUPPLIED OR USED IN THE PREPARATION OF THIS MAP.

THE UNDERGROUND UTILITIES AS SHOWN ON THIS MAP HAVE BEEN LOCATED FROM FIELD SURVEY OF ABOVE GROUND STRUCTURES AND AS MARKED BY OTHERS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS TRACT. THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY SURVEYOR.

NO WATERLINES WERE LOCATED PER LOCATES TICKET NUMBER 16168193. WATERLINES NEED TO BE FIELD VERIFIED.

LEGEND

NOTE: SOME SYMBOLS MAY NOT BE USED ON MAP

DECIDUOUS TREE	UTILITY AND LIGHT POLE
EVERGREEN TREE	UTILITY POLE
STORM SEWER MANHOLE	LIGHT POLE
CATCH BASIN	GUY WIRE
SANITARY SEWER CLEANOUT	ELECTRIC BOX
SANITARY SEWER MANHOLE	ELECTRIC METER
WATER VALVE	ELECTRICAL POWER PEDESTAL
WATER METER	ELECTRIC RISER
FIRE HYDRANT	HEAT PUMP
GAS VALVE	WETLAND BOUNDARY
GAS METER	OVERHEAD LINE
BOLLARD	GAS LINE
SIGN	ELECTRICAL LINE
MAILBOX	COMMUNICATIONS LINE
COMMUNICATIONS PEDESTAL	SANITARY SEWER LINE
COMMUNICATIONS MANHOLE	STORM DRAIN LINE
COMMUNICATIONS BOX	WATER LINE
STORM OUTFALL	FENCELINE
FOUND MONUMENT	GAS RISER
DOWN SPOUT TO STORM SYSTEM	DOWN SPOUT TO SPLASH GUARD/GROUND
WELL HEAD	GAS STUB
	WATER BLOWOFF

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

EXISTING CONDITIONS AND DEMOLITION PLAN

REVISIONS

NO.	DATE	DESCRIPTION
0	04/7/2020	1ST SUBMITTAL
1	07/7/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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SHEET 04 OF 32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_04exst_Layout: 04 EXISTING CONDITIONS AND DEMOLITION PLAN, Plot Date: 9/18/2020 8:48 AM, by: Keelan Smith

SEE NOTE 1 UNDER REVISION NOTES ON SHEET 1 (2)

10' TEMPORARY CONSTRUCTION EASEMENT

5' PUE

10' PUE

DESANTIS DRIVE

60' ROW

AUSTIN AVENUE

KILLIAN SPRING DRIVE

YVONNE STREET

CORNWELL STREET

LANA DRIVE

RITA DRIVE

66' ROW

TRACT "A"

TRACT "B"

1 6360 SF	2 6360 SF	3 6360 SF	4 6572 SF	5 6882 SF	6 7065 SF	7 7760 SF	8 8909 SF	9 10,295 SF	
10 10,217 SF	11 8532 SF	12 8526 SF	13 8520 SF	14 8864 SF	15 8925 SF	16 9074 SF	17 9074 SF	18 8854 SF	19 8478 SF
20 8241 SF	21 7429 SF	22 8607 SF	23 9100 SF	24 7958 SF	25 10,980 SF	26 8185 SF	27 7994 SF	28 7008 SF	29 6031 SF
30 8000 SF	31 8017 SF	32 6443 SF	33 9022 SF	34 6723 SF	35 8242 SF	36 6819 SF	37 6300 SF	38 6300 SF	39 6858 SF
40 7145 SF	41 8418 SF	42 9032 SF	43 8776 SF	44 8460 SF	45 8123 SF				

R12' R270' R330' R317' R383' R370' R430' R195' R255' R573' R507' R220' R280' R530' R470'

N

50 0 25 50 100

SCALE: 1" = 50'

CONSTRUCTION NOTES:

(1) PLAT SHALL BE PROCESSED UNDER A DIFFERENT PERMIT

TRACT AREAS	
A	87,283 SQ. FT
B	174,165 SQ. FT

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

PRELIMINARY PLAT

REVISIONS

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0	04/2020	1ST SUBMITTAL
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SHEET 05 OF 32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_CSplat, Layout: 05 PRELIMINARY PLAT, Plot Date: 9/10/2020 4:34 PM, by: Keelan Smith

N

80' 0 40' 80' 160'

SCALE: 1" = 80'

TRACT "A"

TRACT "B"

WEST HAYES STREET

DESANTIS DRIVE

LANA DRIVE

RITA DRIVE

KILLIAN SPRING DRIVE

AUSTIN AVENUE

YVONNE STREET

CORNWELL STREET

SEE RIGHT FOR CONTINUATION MATCH LINE

SEE LEFT FOR CONTINUATION MATCH LINE

SS-U SEE SH. 20 STA 44+00 TO 48+50

SD-03 SEE SH. 09 STA 44+50 TO 47+00

SS-E SEE SH. 22 STA 10+00 TO 11+50

SD-03 SEE SH. 11 STA 9+50 TO 10+50

SS-U SEE SH. 19 STA 38+00 TO 44+00

SD-03 SEE SH. 08 STA 38+00 TO 44+50

SD-03 SEE SH. 11 STA 9+50 TO 10+50

SS-F SEE SH. 21 STA 54+00 TO 58+00

SD-08 SEE SH. 10 STA 51+50 TO 53+50

SS-A SEE SH. 23 STA 10+50 TO 14+00

SD-08 SEE SH. 12 STA 10+00 TO 14+00

SS-B SEE SH. 24 STA 11+00 TO 16+00

SS-U SEE SH. 20 STA 44+00 TO 48+50

SD-09 SEE SH. 13 STA 10+00 TO 16+00

SS-D SEE SH. 25 STA 14+50 TO 16+00

SD-09 SEE SH. 14 STA 15+00 TO 16+00

SD-09 SEE SH. 14 STA 21+50 TO 22+50

SS-C SEE SH. 25 STA 20+00 TO 22+50

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

XSS XSD XW SD

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

COMPOSITE UTILITY PLAN

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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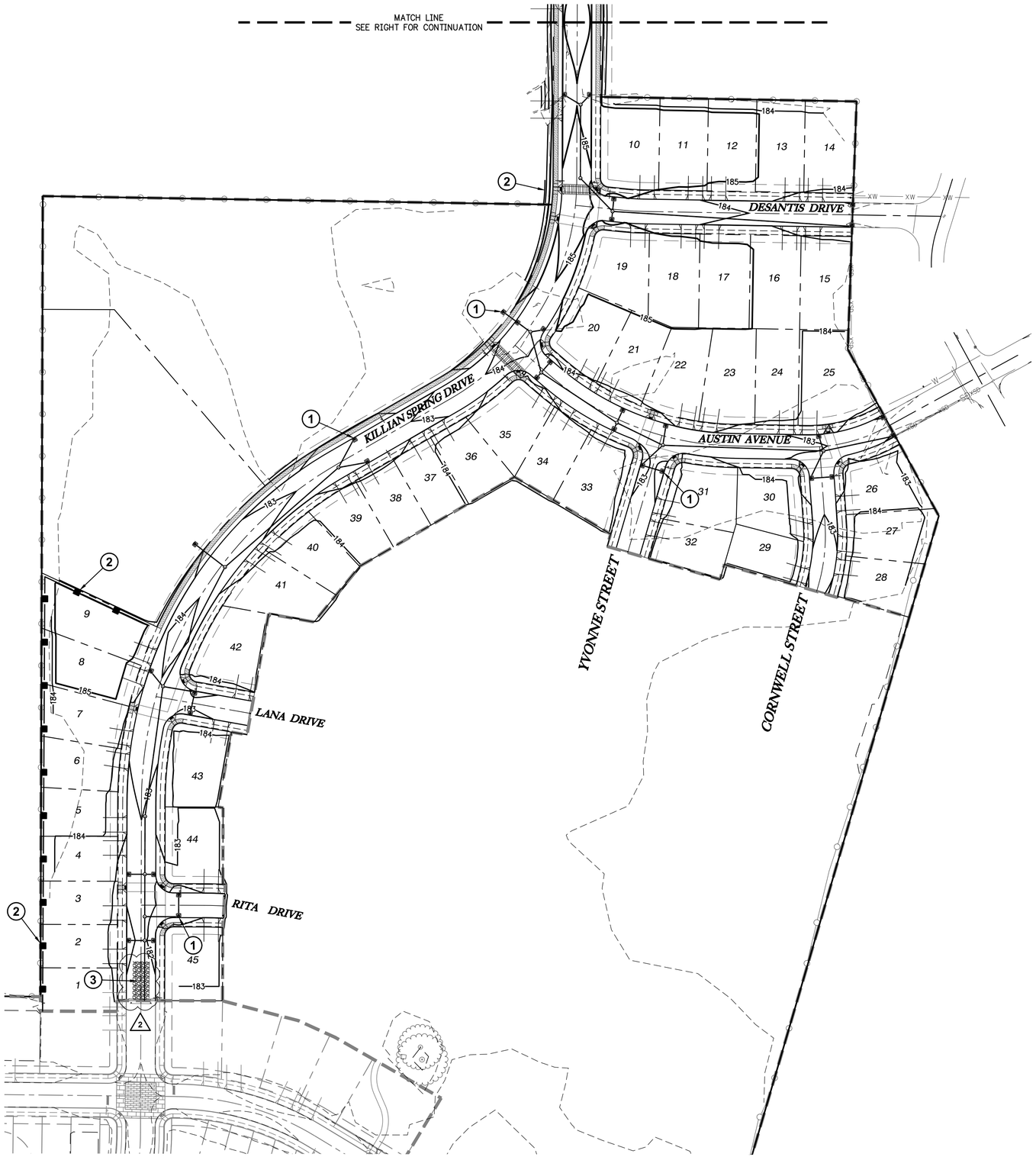
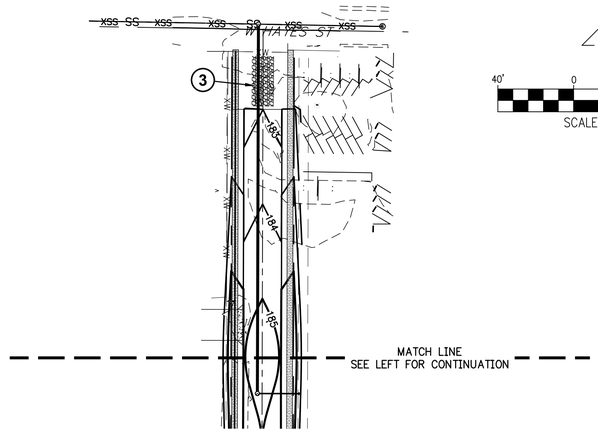
JULY 13, 2010
ROY W. HANKINS
EXPIRES: 6/30/2021

SHEET 06 OF 32

FILE:P:\471-001-Smith Creek-Feasibility\dwg\Civil\Phase 3B\471-001_06cupl, Layout: 06 COMPOSITE UTILITY PLAN, Plot Date: 9/10/2020 4:34 PM, by: Keelon Smith





N

40' 0 20' 40' 80'

SCALE: 1" = 80'

GENERAL NOTES:

A. SEE 1200-C DRAWINGS FOR EROSION CONTROL PLAN.

B. SITE GRADING SHALL NOT RESULT IN THE IMPOUNDMENT OF STORM WATER ON ADJACENT PROPERTIES.

C. 6" STRIPPINGS SHALL BE PLACED ON TOP OF STRUCTURAL FILL FOR ALL LOTS EXCEPT ALLEY LOADED.

D. IF PHASE 2B IS FINISHED BEFORE PHASE 3B, PROVIDE SEPARATE EROSION CONTROL MEASURES ON PHASE 3B PER 1200-C PLANS.

EROSION CONTROL NOTES:

(1) INSTALL BIOFILTER BAGS SURROUNDING CATCH BASINS.

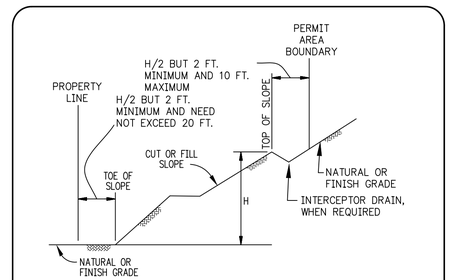
(2) INSTALL SILT FENCE.

(3) INSTALL CONSTRUCTION ENTRANCE.

EARTHWORK SUMMARY	
	VOLUME IN CY
CUT	2,595
FILL	15,480
NET	12,885
NOTE: STRIPPING AND TRENCH SPOILS ARE NOT INCLUDED IN THIS CALCULATION, CONTRACTOR SHALL INDEPENDENTLY VERIFY VOLUMES.	

LEGEND

TW	TOP OF WALL
BW	BOTTOM OF WALL
RW	RETAINING WALL



SETBACK LIMITATIONS

N.T.S.

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

GRADING PLAN

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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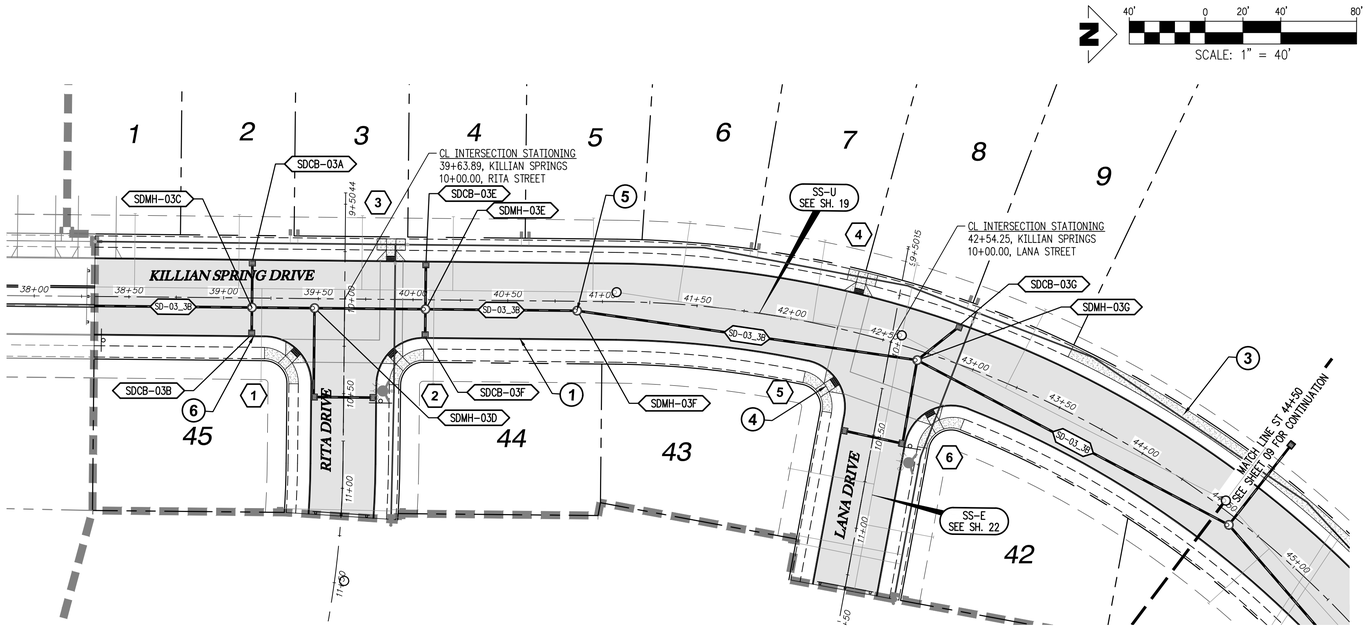
EXPIRES: 6/30/2021

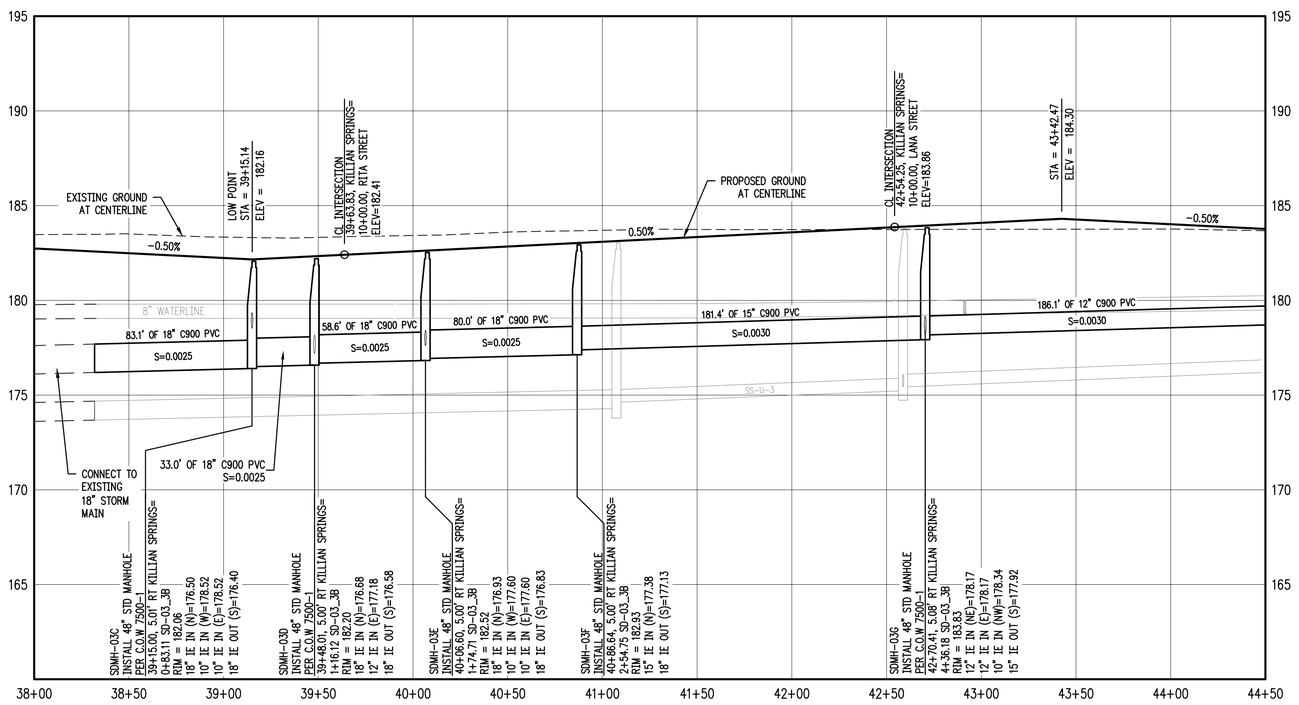
SHEET 07 OF 32

FILE P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_01grad_Layout: 07 GRADING PLAN, Plot Date: 9/10/2020 4:35 PM, by: Keelan Smith



KILLIAN SPRING DRIVE & STORM SD-03 PLAN STA 38+00 TO 44+50 PLAN

SCALE: 1"=40'



KILLIAN SPRING DRIVE & STORM SD-03 STA 38+00 TO 44+50 PROFILE

SCALE: H:1"=40' V:1"=4'

GENERAL NOTES:

A. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

C. SEE SHEET 3 FOR TYPICAL STREET SECTIONS.

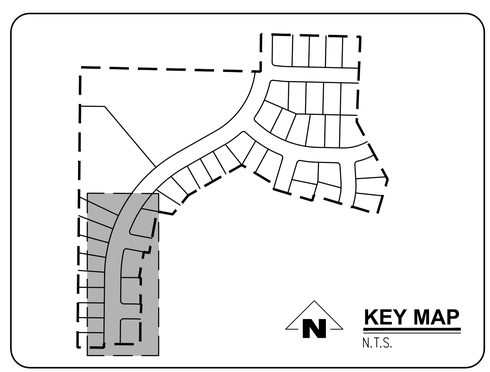
(--) SEE SHEET 15-18 FOR CURB RETURN DATA.

CONSTRUCTION NOTES:

1. INSTALL CONCRETE TYPE "A" CURB AND GUTTER PER C.O.W. DWG NO 4100-1
2. NOT USED.
3. INSTALL PROPERTY LINE SIDEWALK AT DRIVEWAY PER C.O.W. DWG NO 4150-4.
4. INSTALL ADA RAMP AT PROPERTY LINE SIDEWALK PER ODOT DWG NO RD756.
5. INSTALL STORM MH PER C.O.W 7500-1
6. INSTALL TYPE G-1 CB PER ODOT DWG NO RD364.

CATCH BASIN DATA TABLE

CATCH BASIN	C.B. TYPE	STREET STA	RIM ELEV.	I.E. OUT	SLOPE	PIPE DATA
SDCB-03A	INSTALL CATCH BASIN PER ODOT RD364	39+15.00 19.83' LT	181.77	178.77	0.0100	24.84 LF 10" C900 PVC
SDCB-03B	INSTALL CATCH BASIN PER ODOT RD364	39+15.00 19.83' RT	181.77	178.77	0.0169	14.83 LF 10" C900 PVC
SDCB-03E	INSTALL CATCH BASIN PER ODOT RD364	40+06.58 19.83' LT	182.23	179.23	0.0658	24.84 LF 10" C900 PVC
SDCB-03F	INSTALL CATCH BASIN PER ODOT RD364	40+06.58 19.83' RT	182.22	179.23	0.1099	14.83 LF 10" C900 PVC
SDCB-03G	INSTALL CATCH BASIN PER ODOT RD364	42+85.66 19.83' LT	183.62	178.44	0.0033	29.32 LF 10" C900 PVC



SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

KILLIAN SPRING & SD-03
STA 38+00 TO 44+50 PLAN & PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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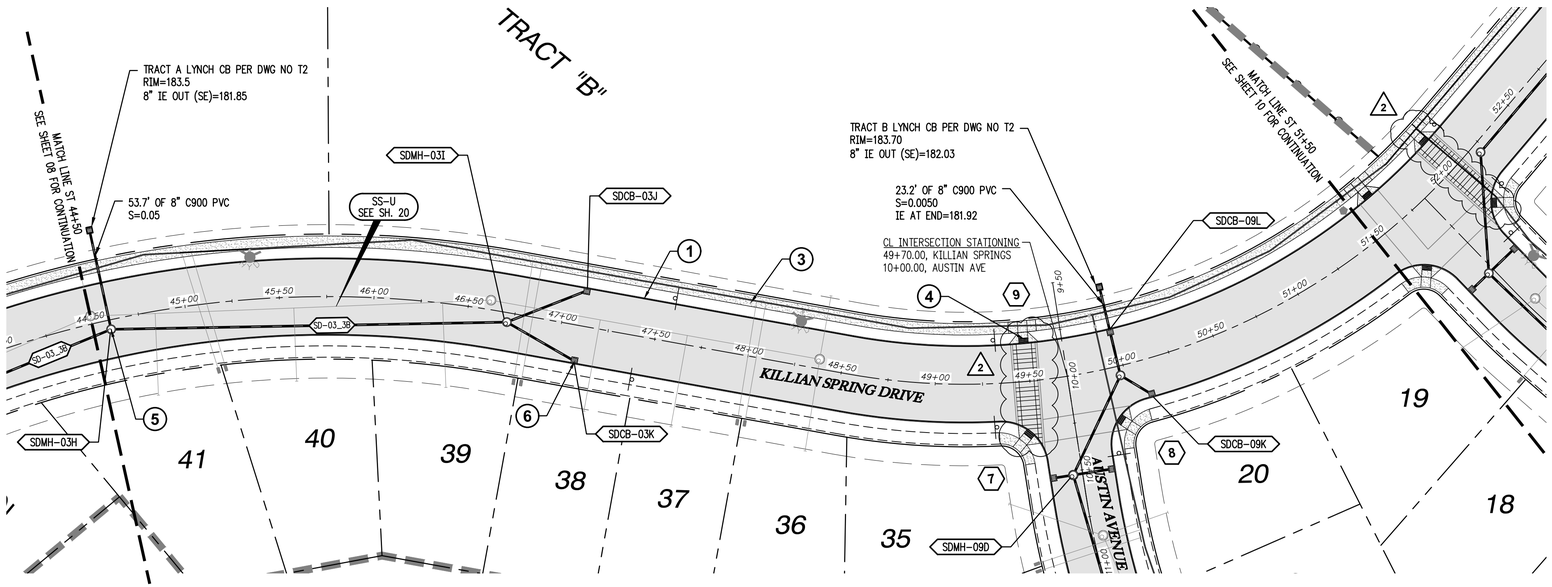
RON W. HANKINS
EXPIRES: 6/30/2021

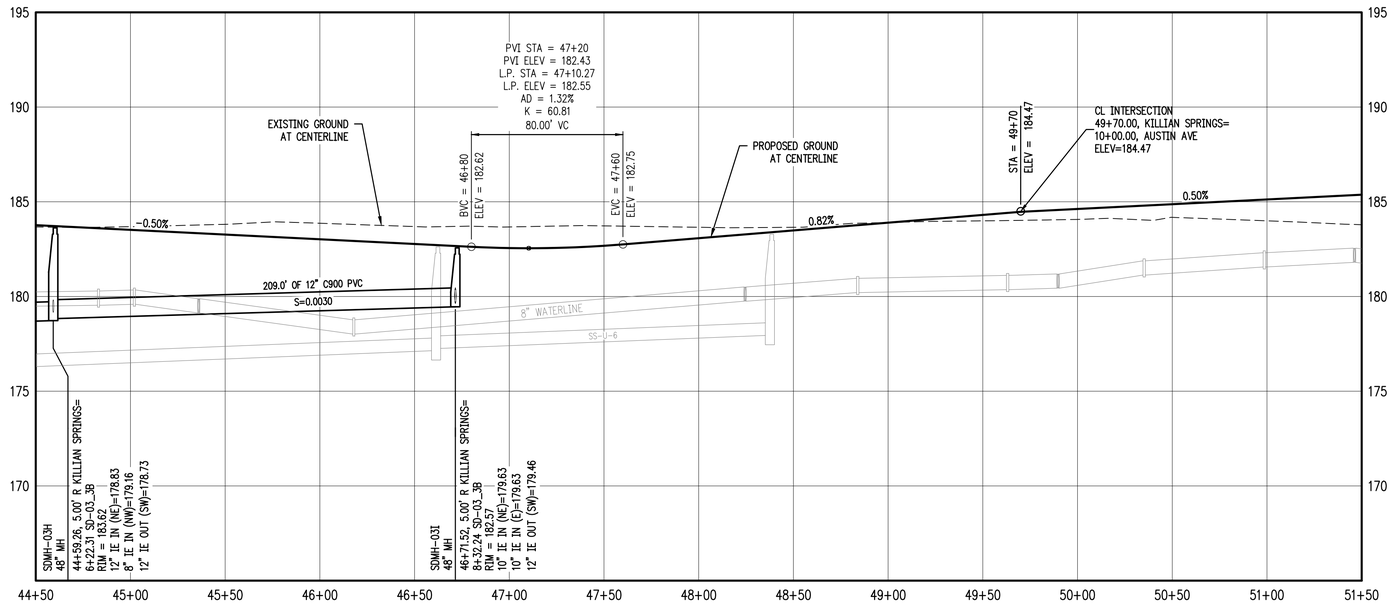
SHEET 08 OF 32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_08st01, Layout: 08 KILLIAN SPRING & SD-XX STA 38+00 TO 44+50 PLAN & PROFILE, Plot Date: 9/10/2020 4:36 PM, by: Keelan Smith



KILLIAN SPRING DRIVE & STORM SD-03 STA 44+50 TO 51+50 PLAN

SCALE: 1"=40'



KILLIAN SPRING DRIVE & STORM SD-03 STA 44+50 TO 51+50 PROFILE

SCALE: H:1"=40' V:1"=4'

GENERAL NOTES:

A. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

C. SEE SHEET 3 FOR TYPICAL STREET SECTIONS.

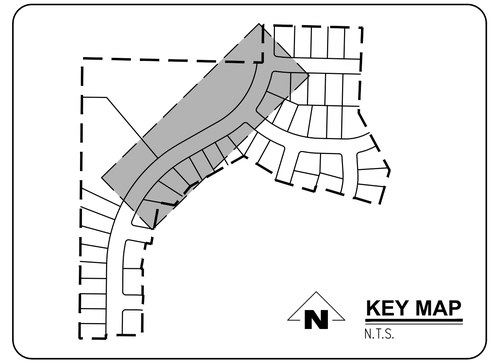
(--) SEE SHEET 15-18 FOR CURB RETURN DATA.

CONSTRUCTION NOTES:

1. INSTALL CONCRETE TYPE "A" CURB AND GUTTER PER C.O.W. DWG NO 4100-1
2. NOT USED.
3. INSTALL PROPERTY LINE SIDEWALK AT DRIVEWAY PER C.O.W. DWG NO 4150-4.
4. INSTALL ADA RAMP AT PROPERTY LINE SIDEWALK PER ODOT DWG NO RD756.
5. INSTALL STORM MH PER C.O.W 7500-1
6. INSTALL TYPE G-1 CB PER ODOT DWG NO RD364.

CATCH BASIN DATA TABLE

CATCH BASIN	C.B. TYPE	STREET STA	RIM ELEV.	I.E. OUT	SLOPE	PIPE DATA
SDCB-03J	INSTALL CATCH BASIN PER ODOT RD364	47+10.27 19.83' LT	182.15	179.78	0.0033	46.02 LF 10" C900 PVC
SDCB-03K	INSTALL CATCH BASIN PER ODOT RD364	47+10.27 19.83' RT	182.15	179.76	0.0033	41.49 LF 10" C900 PVC
SDCB-09K	INSTALL CATCH BASIN PER ODOT RD364	50+10.56 19.83' RT	184.28	181.09	0.0033	20.13 LF 10" C900 PVC
SDCB-09L	INSTALL CATCH BASIN PER ODOT RD364	49+97.42 19.84' LT	184.21	181.11	0.0033	24.84 LF 10" C900 PVC



SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

KILLIAN SPRING & SD-03
STA 44+50 TO 51+50 PLAN & PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
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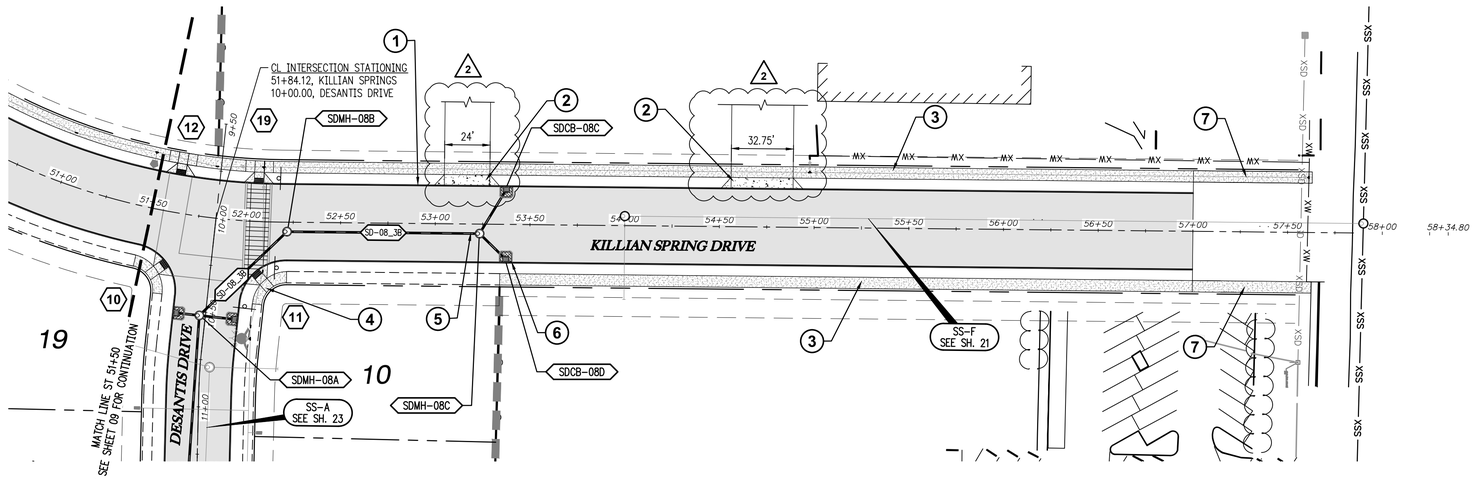
EXPIRES: 6/30/2021

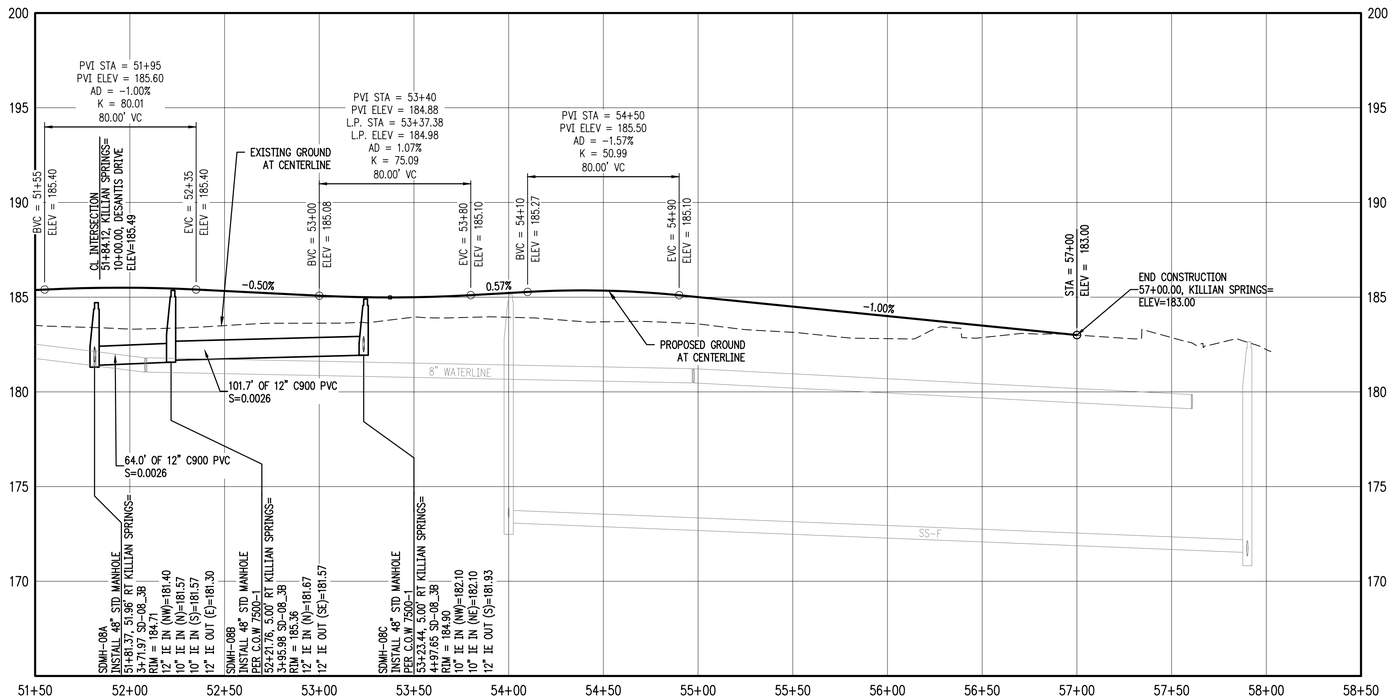
SHEET 09 OF 32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_09st02, Layout: 09 KILLIAN SPRING & SD-XX STA 44+50 TO 51+50 PLAN & PROFILE, Plot Date: 9/10/2020 4:37 PM, by: Keelon Smith



KILLIAN SPRING DRIVE & STORM SD-08 STA 51+50 TO 58+00 PLAN

SCALE: 1"=40'



KILLIAN SPRING DRIVE & STORM SD-08 STA 51+50 TO 58+00 PROFILE

SCALE: H: 1"=40' V: 1"=4'

GENERAL NOTES:

A. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

C. SEE SHEET 3 FOR TYPICAL STREET SECTIONS.

(--) SEE SHEET 15-18 FOR CURB RETURN DATA.

CONSTRUCTION NOTES:

(1) INSTALL CONCRETE TYPE "A" CURB AND GUTTER PER C.O.W. DWG NO 4100-1

(2) STA 53+16.55 & STA 54+72.33, 20.0' LT KILLIAN SPRINGS
INSTALL DRIVEWAY APPROACH WITH TYPE "A" CURB AT DRIVEWAY PER C.O.W. DWG NO 4100-4 & 4150-1.
VERIFY DRIVEWAY APPROACH LOCATIONS WITH PROPERTY OWNER TO THE WEST.
LOCATIONS AND WIDTHS SHALL BE APPROVED BY THE CITY ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION.
NOTE: STATION AND OFFSET IS TO CENTER OF DRIVEWAY APPROACH AT THE FACE OF CURB.

(3) INSTALL PROPERTY LINE SIDEWALK AT DRIVEWAY PER C.O.W. DWG NO 4150-4.

(4) INSTALL ADA RAMP AT PROPERTY LINE SIDEWALK PER ODOT DWG NO RD756.

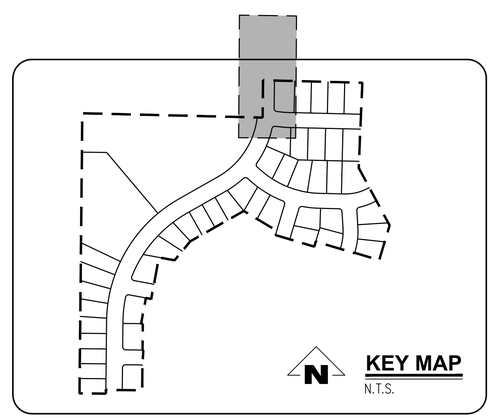
(5) INSTALL STORM MH PER C.O.W 7500-1

(6) INSTALL TYPE G-1 CB PER ODOT DWG NO RD364.

(7) CONSTRUCT ASPHALT RAMP TAPERING TO EXISTING GRADE. (TYP. OF 2), EXTEND TO HAYES STREET

CATCH BASIN DATA TABLE

CATCH BASIN	C.B. TYPE	STREET STA	RIM ELEV.	I.E. OUT	SLOPE	PIPE DATA
SDCB-08C	INSTALL CATCH BASIN PER ODOT RD364	53+37.34 19.83' LT	184.59	182.19	0.0033	28.46 LF 10" C900 PVC
SDCB-08D	INSTALL CATCH BASIN PER ODOT RD364	53+37.42 19.83' RT	184.59	182.16	0.0033	20.38 LF 10" C900 PVC



SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

KILLIAN SPRING & SD-08
STA 51+50 TO 58+00 PLAN
& PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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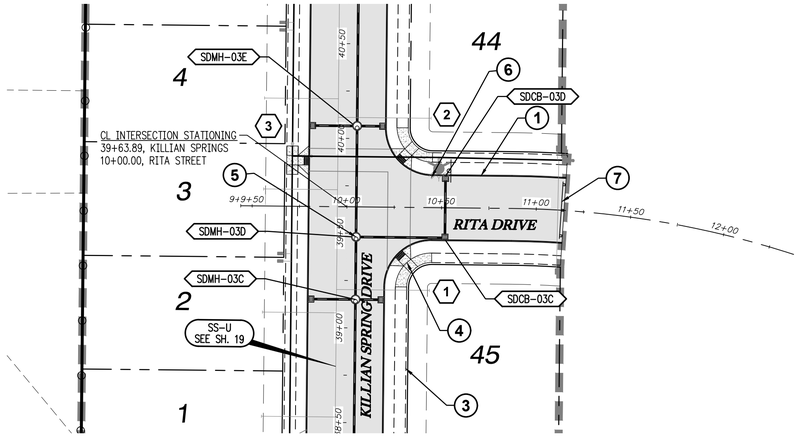
84283
OREGON
MAY 13, 2016
ROY W. HANKINS
EXPIRES: 6/30/2021

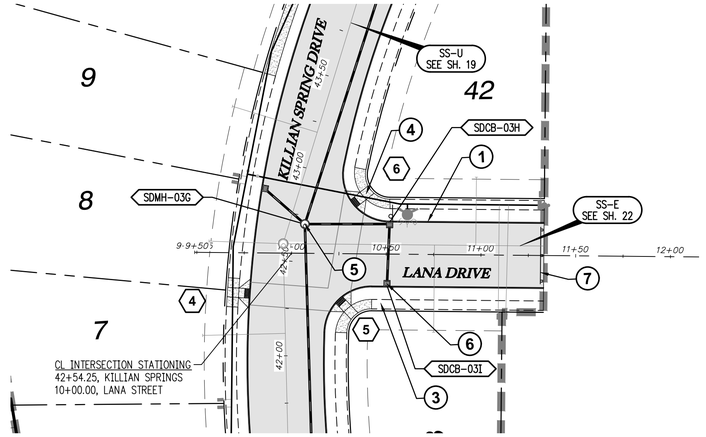
SHEET 10 OF 32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_10st03, Layout: 10 KILLIAN SPRING & SD-08 STA 51+50 TO 58+00 PLAN & PROFILE, Plot Date: 9/10/2020 4:37 PM, by: Keelon Smith



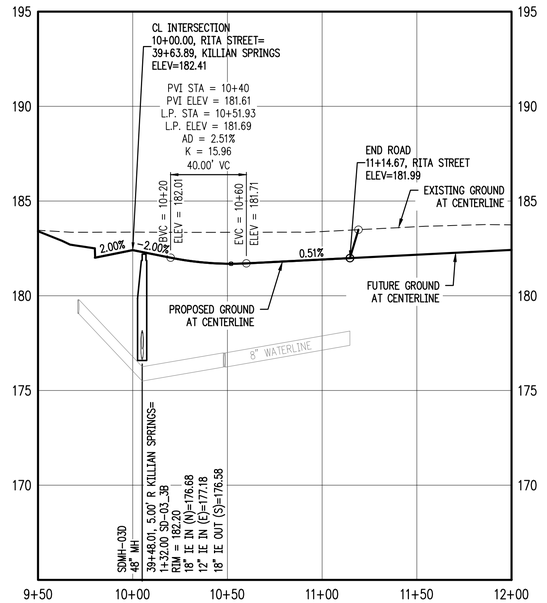
RITA DRIVE & STORM SD-03 STA 9+50 TO 12+00 PLAN

SCALE: 1"=40'



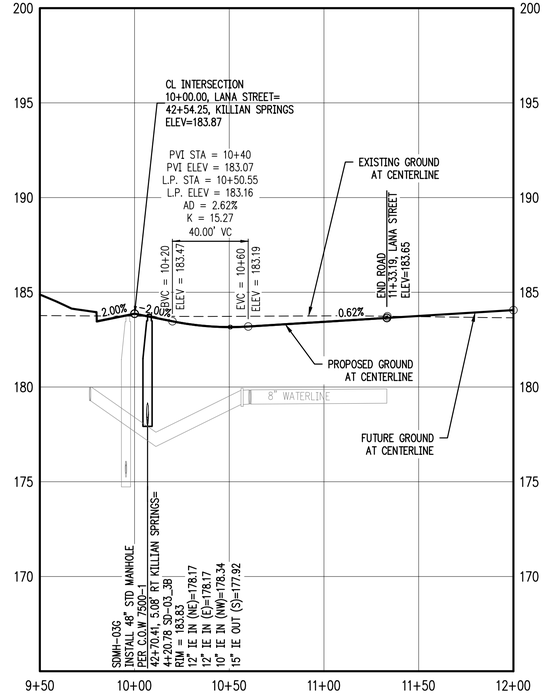
LANA DRIVE & STORM SD-03 STA 9+50 TO 12+00 PLAN

SCALE: 1"=40'



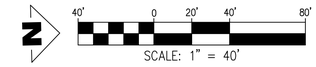
RITA DRIVE & STORM SD-03 STA 9+50 TO 12+50 PROFILE

SCALE: H:1"=40' V:1"=4'



LANA DRIVE & STORM SD-03 STA 9+50 TO 12+00 PROFILE

SCALE: H:1"=40' V:1"=4'



GENERAL NOTES:

A. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

C. SEE SHEET 3 FOR TYPICAL STREET SECTIONS.

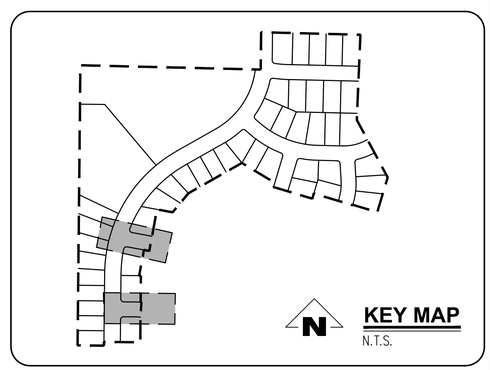
(--) SEE SHEET 15-18 FOR CURB RETURN DATA.

CONSTRUCTION NOTES:

1. INSTALL CONCRETE TYPE "A" CURB AND GUTTER PER C.O.W. DWG NO 4100-1
2. NOT USED.
3. INSTALL PROPERTY LINE SIDEWALK AT DRIVEWAY PER C.O.W. DWG NO 4150-4.
4. INSTALL ADA RAMP AT PROPERTY LINE SIDEWALK PER ODOT DWG NO RD756.
5. INSTALL STORM MH PER C.O.W 7500-1
6. INSTALL TYPE G-1 CB PER ODOT DWG NO RD364.
7. INSTALL TEMPORARY TYPE III BARRICADE PER ODOT DWG NO TM820.

CATCH BASIN DATA TABLE

CATCH BASIN	C.B. TYPE	STREET STA	RIM ELEV.	I.E. OUT	SLOPE	PIPE DATA
SDCB-03C	INSTALL CATCH BASIN PER ODOT RD364	10+51.93 16.83' RT	181.35	177.65	0.0100	46.93 LF 12" C900 PVC
SDCB-03D	INSTALL CATCH BASIN PER ODOT RD364	10+51.93 16.83' LT	181.35	178.15	0.0100	33.67 LF 10" C900 PVC
SDCB-03H	INSTALL CATCH BASIN PER ODOT RD364	10+51.59 16.83' LT	182.82	178.62	0.0100	44.75 LF 12" C900 PVC
SDCB-03I	INSTALL CATCH BASIN PER ODOT RD364	10+50.55 16.83' RT	182.83	179.12	0.0100	33.68 LF 10" C900 PVC



SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

LANA DR, RITA DR, & STORM SD-03 PLAN AND PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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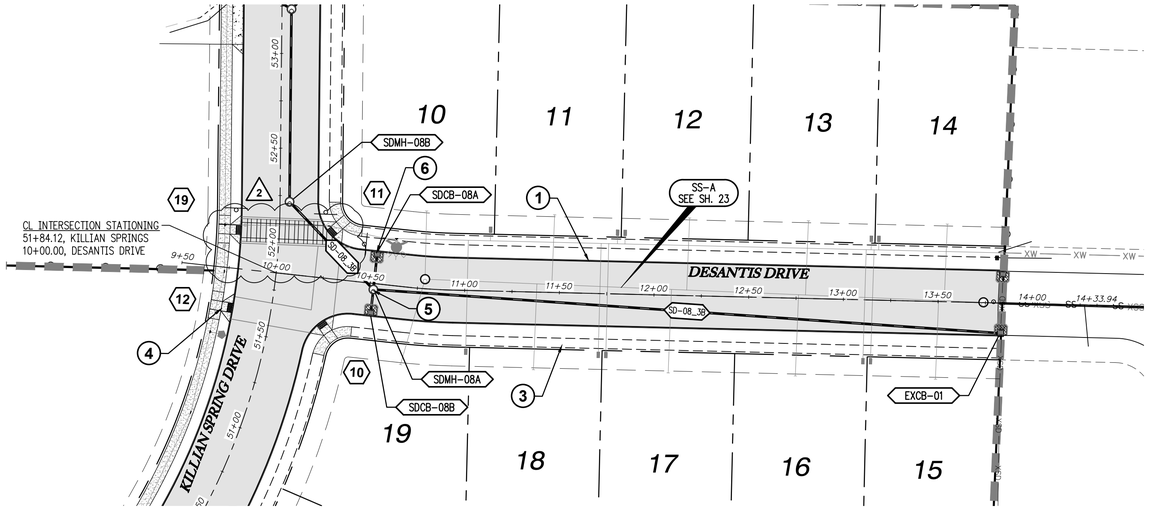
MAY 13, 2019
ROY W. HANKINS
EXPIRES: 6/30/2021

SHEET 11 OF 32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_11st04, Layout: 11 LANA DR RITA DR & STORM SD-XX PLAN AND PROFILE, Plot Date: 9/10/2020 4:38 PM, by Keelan Smith

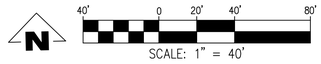


DESANTIS DR & STORM SD-08 STA 9+50 TO 14+00 PLAN

SCALE: 1"=40'

DESANTIS DR & STORM SD-08 STA 9+50 TO 14+00 PROFILE

SCALE: H:1"=40' V:1"=4'



GENERAL NOTES:

A. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

C. SEE SHEET 3 FOR TYPICAL STREET SECTIONS.

(--) SEE SHEET 15-18 FOR CURB RETURN DATA.

CONSTRUCTION NOTES:

(1) INSTALL CONCRETE TYPE "A" CURB AND GUTTER PER C.O.W. DWG NO 4100-1

(2) NOT USED.

(3) INSTALL PROPERTY LINE SIDEWALK AT DRIVEWAY PER C.O.W. DWG NO 4150-4.

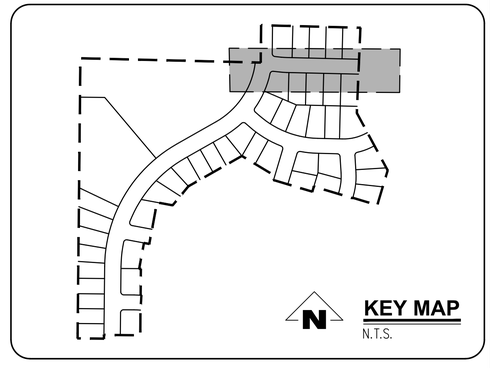
(4) INSTALL ADA RAMP AT PROPERTY LINE SIDEWALK PER ODOT DWG NO RD756.

(5) INSTALL STORM MH PER C.O.W 7500-1

(6) INSTALL TYPE G-1 CB PER ODOT DWG NO RD364.

CATCH BASIN DATA TABLE

CATCH BASIN	C.B. TYPE	STREET STA	RIM ELEV.	I.E. OUT	SLOPE	PIPE DATA
SDCB-08A	INSTALL CATCH BASIN PER ODOT RD364	10+51.94 16.83' LT	184.43	181.63	0.0033	20.00 LF 10" C900 PVC
SDCB-08B	INSTALL CATCH BASIN PER ODOT RD364	10+51.94 16.83' RT	184.43	181.62	0.0033	13.67 LF 10" C900 PVC



KEY MAP

N.T.S.

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

DESANTIS DR & STORM
SD-08 PLAN AND PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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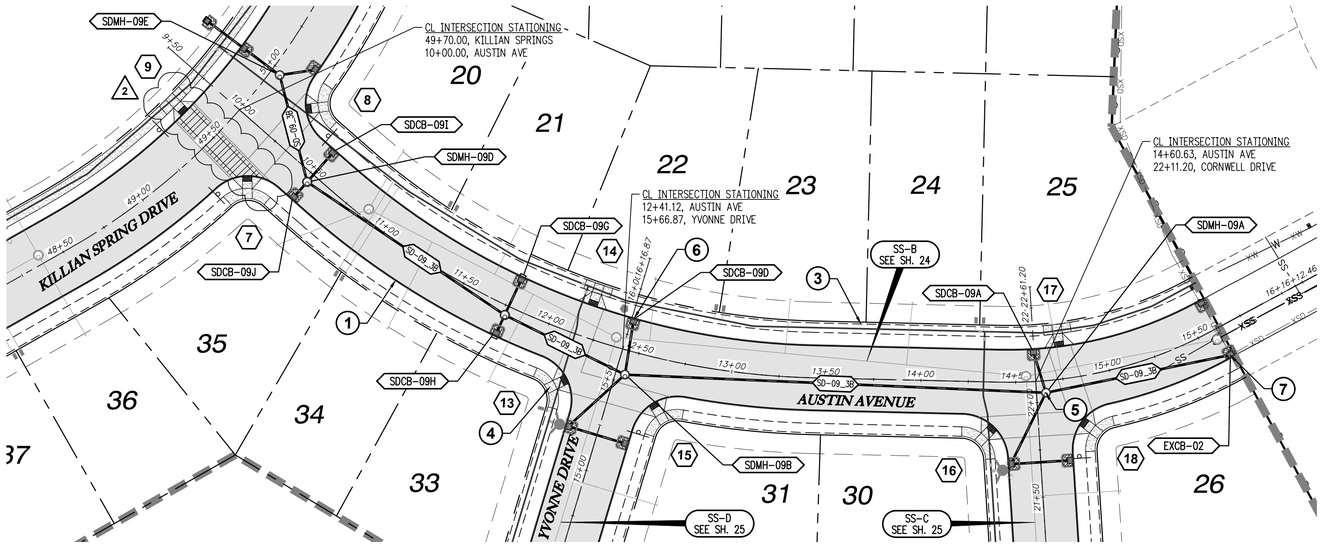
TROY W. HAWKINS
EXPIRES: 6/30/2021

SHEET 12 OF 32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_12sht05_Layout- 12 DESANTIS DR & STORM SD-XX PLAN AND PROFILE, Plot Date: 9/10/2020 4:39 PM, by: Keelan Smith



GENERAL NOTES:

A. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

C. SEE SHEET 3 FOR TYPICAL STREET SECTIONS.

(--) SEE SHEET 15-18 FOR CURB RETURN DATA.

CONSTRUCTION NOTES:

1. INSTALL CONCRETE TYPE "A" CURB AND GUTTER PER C.O.W. DWG NO 4100-1
2. NOT USED.
3. INSTALL PROPERTY LINE SIDEWALK AT DRIVEWAY PER C.O.W. DWG NO 4150-4.
4. INSTALL ADA RAMP AT PROPERTY LINE SIDEWALK PER ODOT DWG NO RD756.
5. INSTALL STORM MH PER C.O.W 7500-1
6. INSTALL TYPE G-1 CB PER ODOT DWG NO RD364.
7. REMOVE EXISTING 10" STORM STUB AT EXISTING CATCH BASIN.

CATCH BASIN DATA TABLE

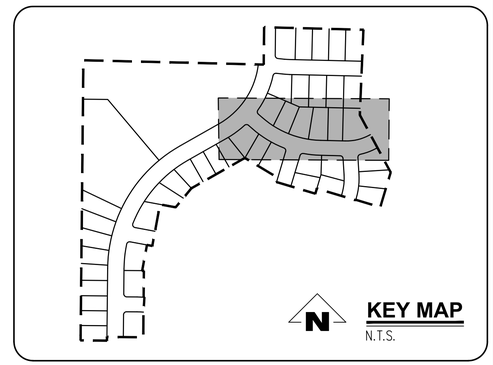
CATCH BASIN	C.B. TYPE	STREET STA	RIM ELEV.	I.E. OUT	SLOPE	PIPE DATA
SDCB-09A	INSTALL CATCH BASIN PER ODOT RD364	14+60.36 16.84' LT	182.77	180.24	0.0033	23.72 LF 10" C900 PVC
SDCB-09D	INSTALL CATCH BASIN PER ODOT RD364	12+42.62 16.84' LT	183.40	180.26	0.0033	29.72 LF 10" C900 PVC
SDCB-09G	INSTALL CATCH BASIN PER ODOT RD364	11+76.81 16.84' LT	183.01	180.52	0.0033	21.84 LF 10" C900 PVC
SDCB-09H	INSTALL CATCH BASIN PER ODOT RD364	11+76.81 16.83' RT	183.01	180.49	0.0033	11.83 LF 10" C900 PVC
SDCB-09I	INSTALL CATCH BASIN PER ODOT RD364	10+52.00 16.83' LT	183.41	180.95	0.0033	21.83 LF 10" C900 PVC
SDCB-09J	INSTALL CATCH BASIN PER ODOT RD364	10+52.00 16.83' RT	183.41	180.92	0.0033	11.83 LF 10" C900 PVC

AUSTIN AVE & STORM SD-09 STA 9+50 TO 16+00 PLAN

SCALE: 1"=40'

AUSTIN AVE & STORM SD-09 STA 9+50 TOO 16+00 PROFILE

SCALE: H:1"=40' V:1"=4'



SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

AUSTIN AVE & STORM
SD-09 9+50 TO 16+00 PLAN
& PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
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REGISTERED PROFESSIONAL ENGINEER
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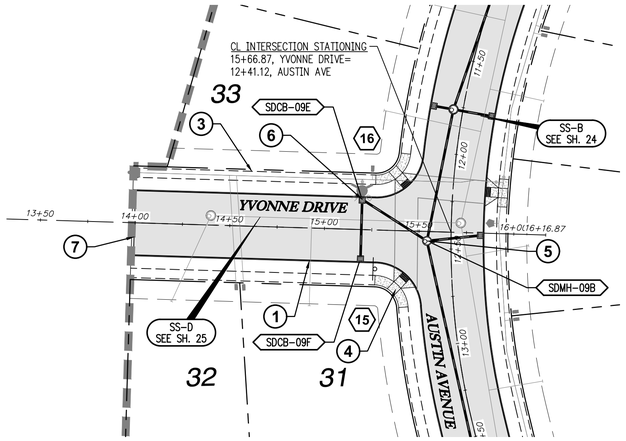
JULY 13, 2010
ROY W. HANKINS
EXPIRES: 6/30/2021

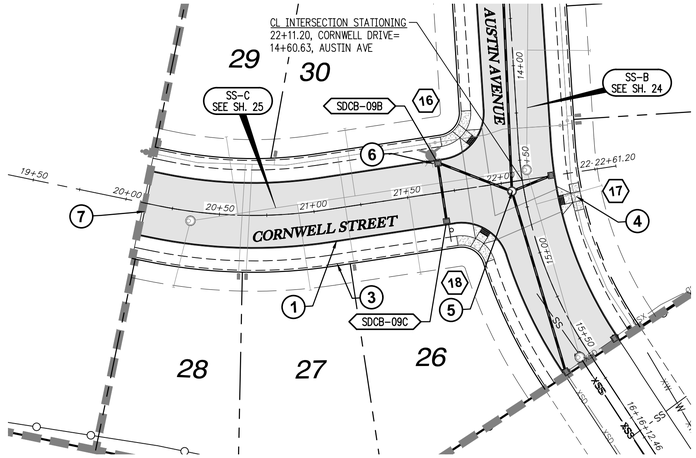
SHEET 13 OF 32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_1st05b Layout: 13 AUSTIN AVE & STORM SD-XX 9+50 TO 16+00 PLAN & PROFILE, Plot Date: 9/10/2020 4:39 PM, by: Keelan Smith



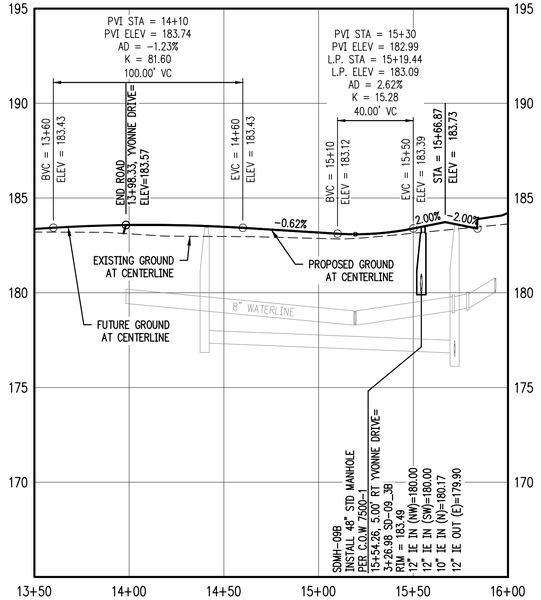
YVONNE ST & STORM SD-09 STA 13+50 TO 16+00 PLAN

SCALE: 1"=40'



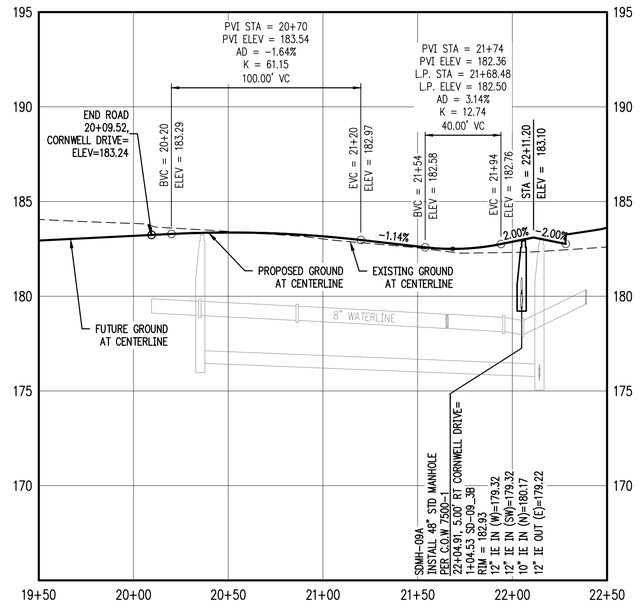
CORNWELL ST & STORM SD-09 STA 19+50 TO 21+50 PLAN

SCALE: 1"=40'



YVONNE ST & STORM SD-09 STA 13+50 TO 16+00 PROFILE

SCALE: H:1"=40' V:1"=4'



CORNWELL ST & STORM SD-09 STA 19+50 TO 21+50 PROFILE

SCALE: H:1"=40' V:1"=4'

GENERAL NOTES:

A. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

C. SEE SHEET 3 FOR TYPICAL STREET SECTIONS.

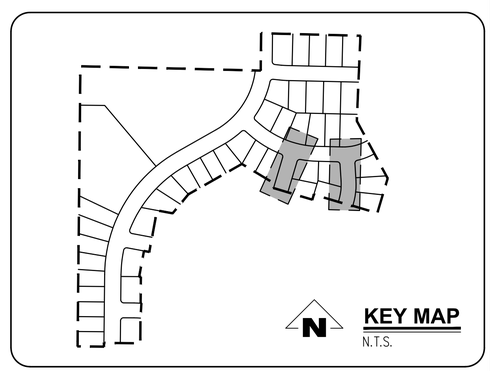
(--) SEE SHEET 15-18 FOR CURB RETURN DATA.

CONSTRUCTION NOTES:

1. INSTALL CONCRETE TYPE "A" CURB AND GUTTER PER C.O.W. DWG NO 4100-1
2. NOT USED.
3. INSTALL PROPERTY LINE SIDEWALK AT DRIVEWAY PER C.O.W. DWG NO 4150-4.
4. INSTALL ADA RAMP AT PROPERTY LINE SIDEWALK PER ODOT DWG NO RD756.
5. INSTALL STORM MH PER C.O.W 7500-1
6. INSTALL TYPE G-1 CB PER ODOT DWG NO RD364.
7. INSTALL TEMPORARY TYPE III BARRICADE PER ODOT DWG NO TM820.

CATCH BASIN DATA TABLE

CATCH BASIN	C.B. TYPE	STREET STA	RIM ELEV.	I.E. OUT	SLOPE	PIPE DATA
SDCB-09B	INSTALL CATCH BASIN PER ODOT RD364	21+68.48 16.83' LT	182.16	179.46	0.0033	42.47 LF 12" C900 PVC
SDCB-09C	INSTALL CATCH BASIN PER ODOT RD364	21+68.48 16.83' RT	182.16	179.74	0.0033	33.67 LF 10" C900 PVC
SDCB-09E	INSTALL CATCH BASIN PER ODOT RD364	15+19.46 16.83' LT	182.75	180.14	0.0033	41.08 LF 12" C900 PVC
SDCB-09F	INSTALL CATCH BASIN PER ODOT RD364	15+19.46 16.83' RT	182.75	180.42	0.0033	33.67 LF 10" C900 PVC



SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

YVONNE ST, CORNWELL ST & STORM SD-09 PLAN AND PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
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2	09/2020	3RD SUBMITTAL

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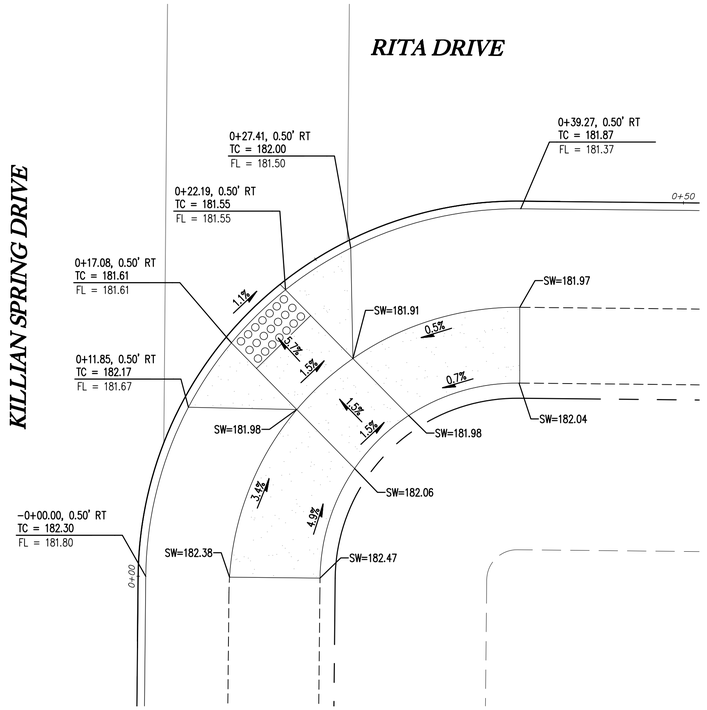
84283
OREGON
MAY 13, 2016
ROY W. HANKINS
EXPIRES: 6/30/2021

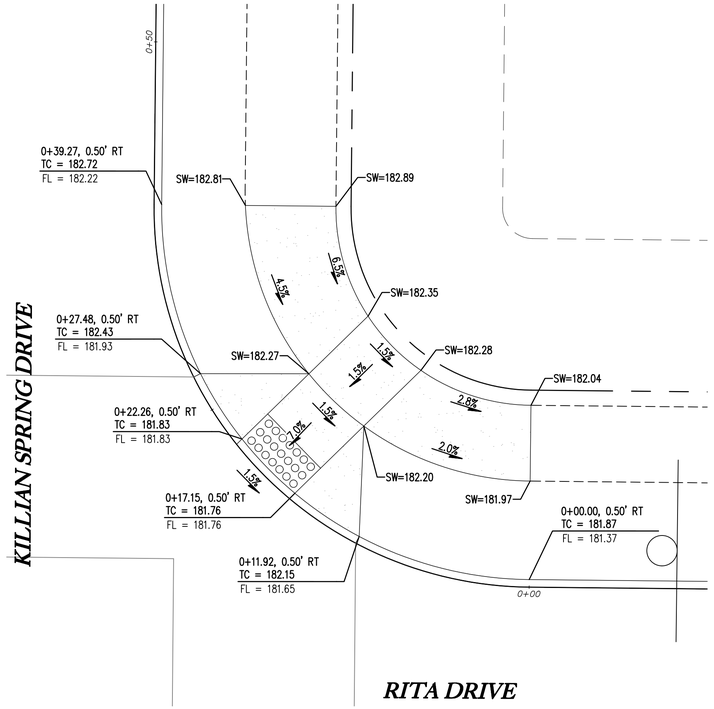
SHEET 14 OF 32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_14st01, Layout: 14 YVONNE ST & CORNWELL ST & STORM SD-XX PLAN AND PROFILE, Plot Date: 9/10/2020 4:40 PM, by: Keelan Smith



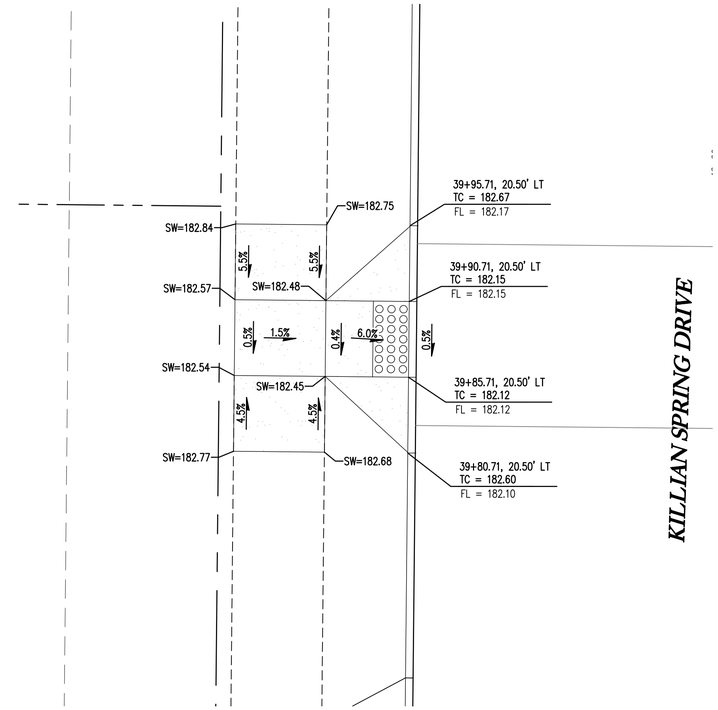
N **CURB RETURN - SE CORNER OF KILLIAN AND RITA** 1

1" = 5'



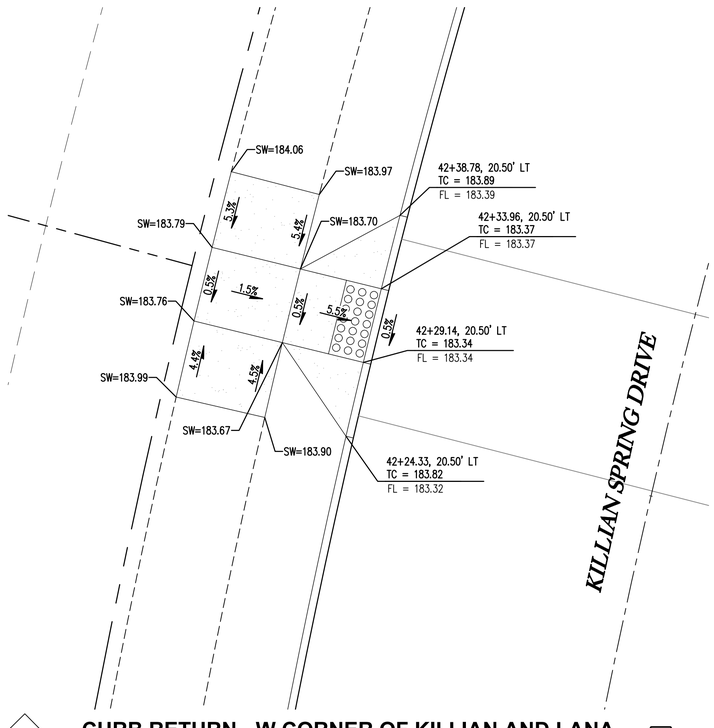
N **CURB RETURN - NE CORNER OF KILLIAN AND RITA** 2

1" = 5'



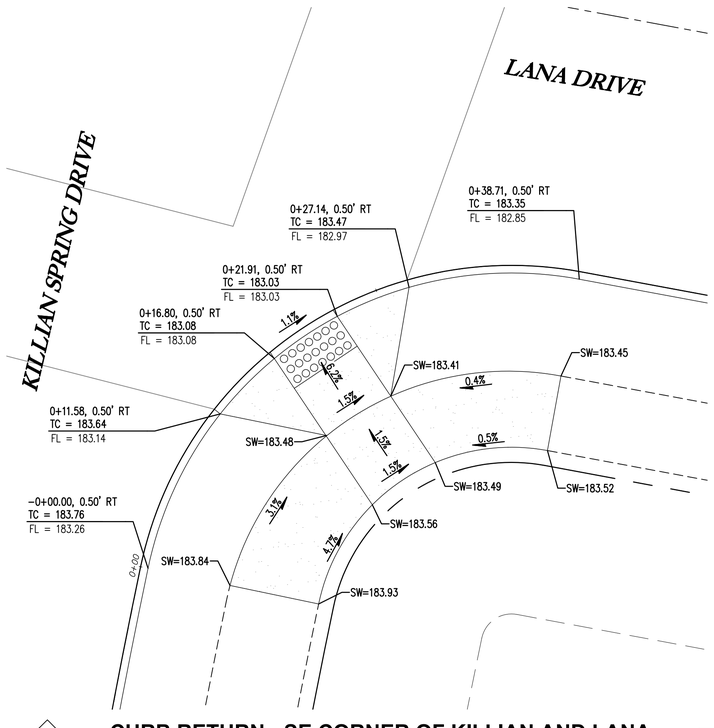
N **CURB RETURN - W CORNER OF KILLIAN AND RITA** 3

1" = 5'



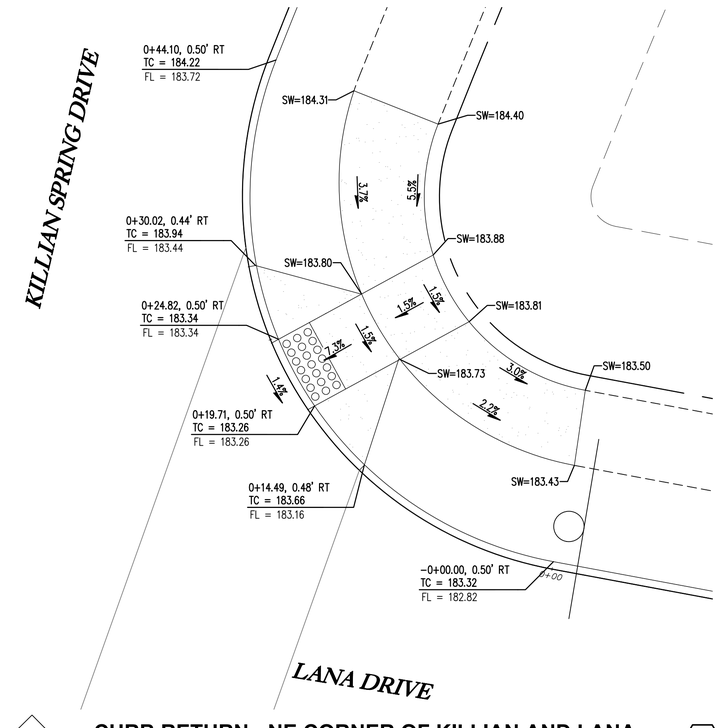
N **CURB RETURN - W CORNER OF KILLIAN AND LANA** 4

1" = 5'



N **CURB RETURN - SE CORNER OF KILLIAN AND LANA** 5

1" = 5'



N **CURB RETURN - NE CORNER OF KILLIAN AND LANA** 6

1" = 5'

471-001

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

CURB RETURN DETAILS

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

EMERIO Design
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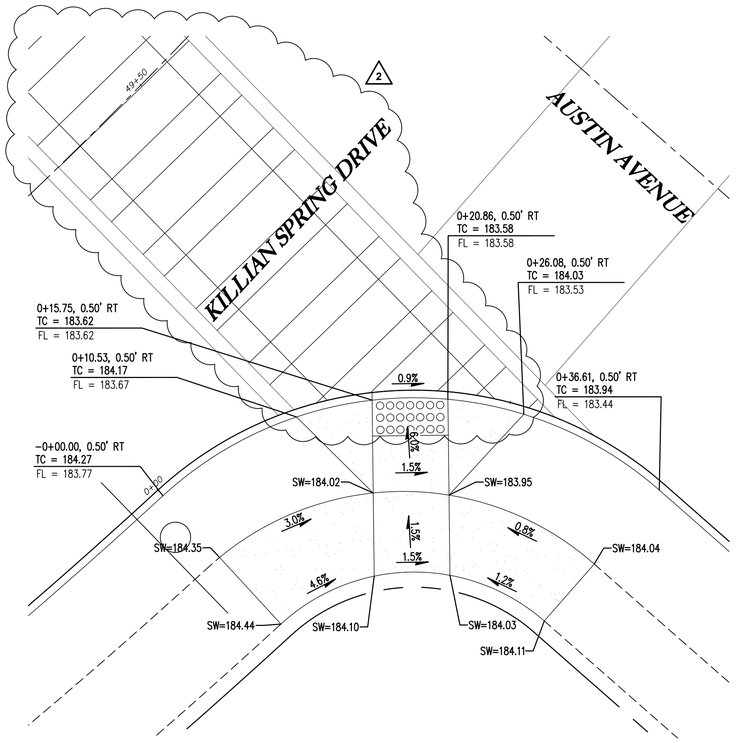
REGISTERED PROFESSIONAL ENGINEER
84283
OREGON
MAY 13, 2020
ROY W. HANKINS
EXPIRES: 6/30/2021

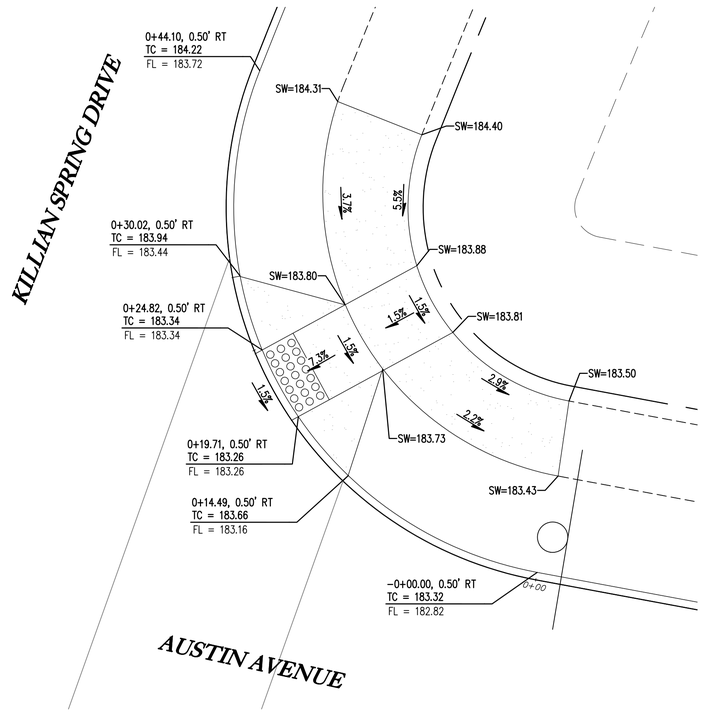
SHEET 15 OF 32

FILE P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_15crb01, Layout: 15 CURB RETURN DETAILS, Plot Date: 9/10/2020 4:41 PM, by: Keaton Smith



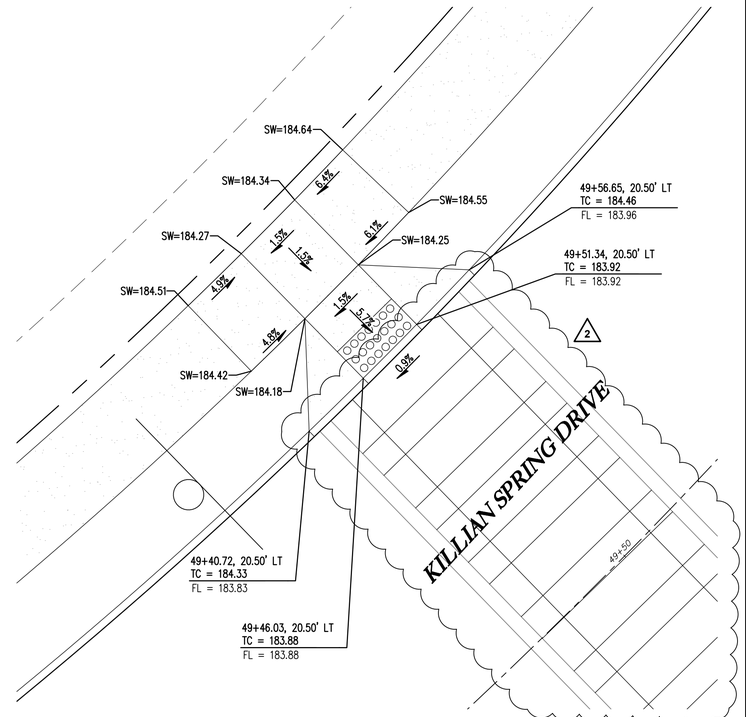
N **CURB RETURN - S CORNER OF KILLIAN AND AUSTIN** 7

1" = 5'



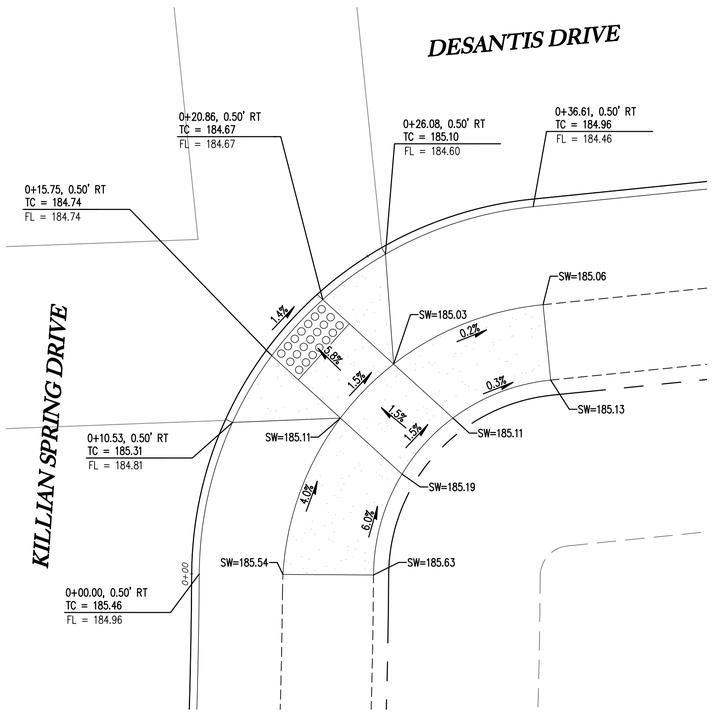
N **CURB RETURN - NE CORNER OF KILLIAN AND AUSTIN** 8

1" = 5'



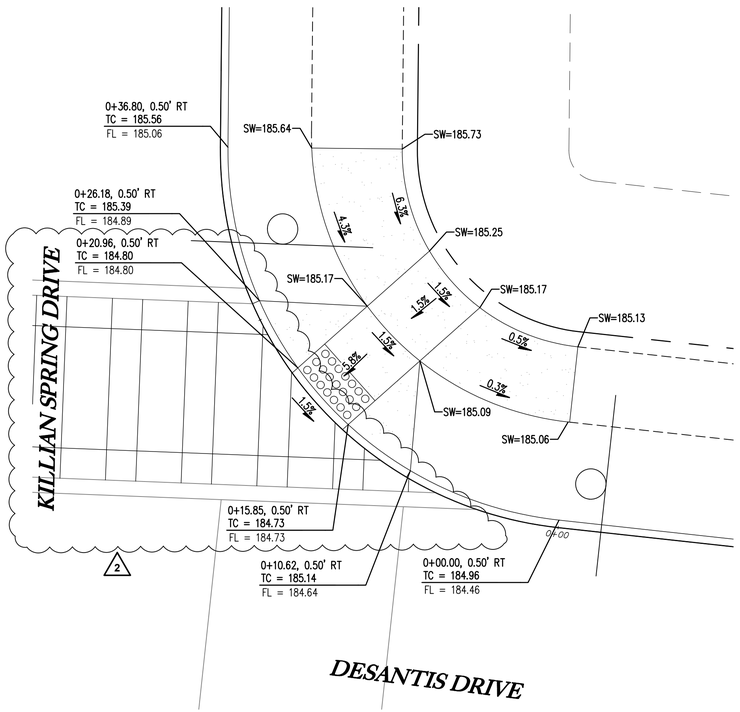
N **CURB RETURN - NW CORNER OF KILLIAN AND AUSTIN** 9

1" = 5'



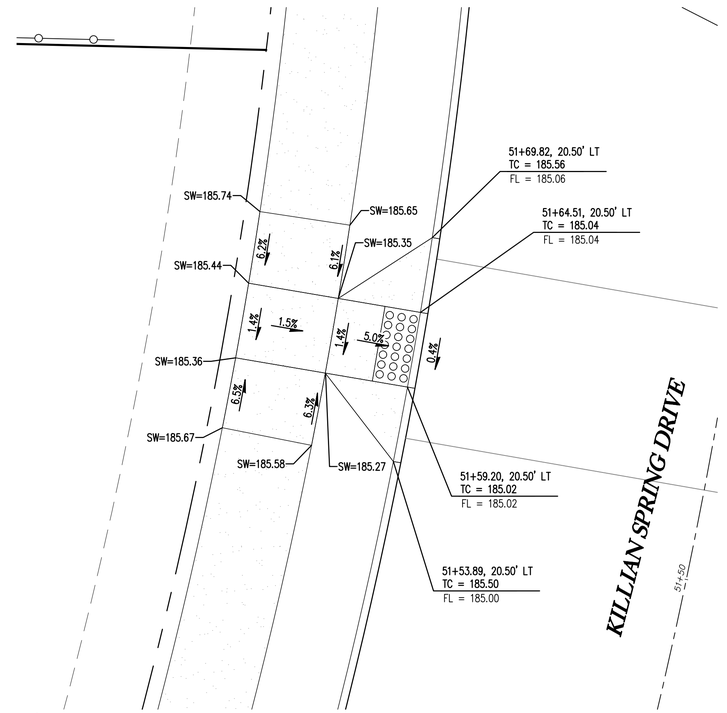
N **CURB RETURN - SE CORNER OF KILLIAN AND DESANTIS** 10

1" = 5'



N **CURB RETURN - NE CORNER OF KILLIAN AND DESANTIS** 11

1" = 5'



N **CURB RETURN - W CORNER OF KILLIAN AND DESANTIS** 12

1" = 5'

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

CURB RETURN DETAILS

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	01/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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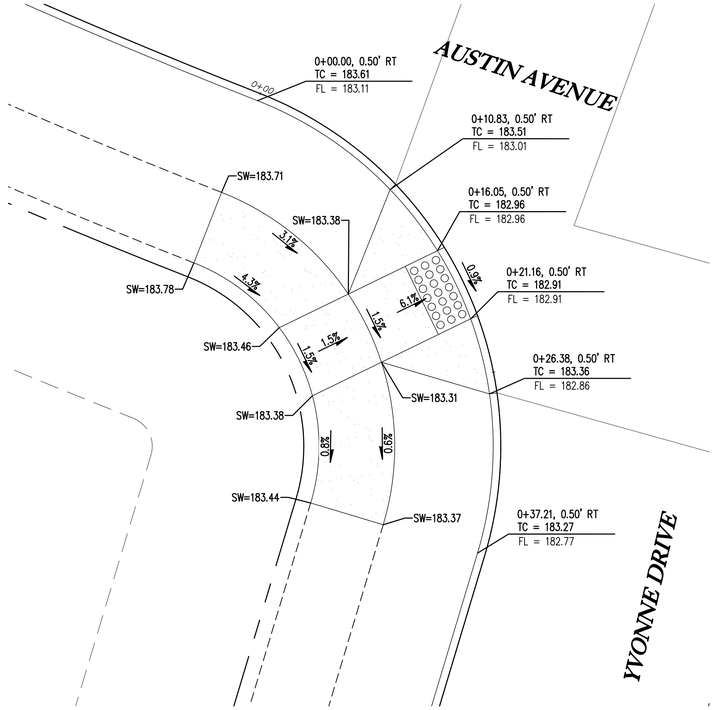
REGISTERED PROFESSIONAL ENGINEER
84283
OREGON
JULY 13, 2010
ROY W. HAWKINS
EXPIRES: 6/30/2021

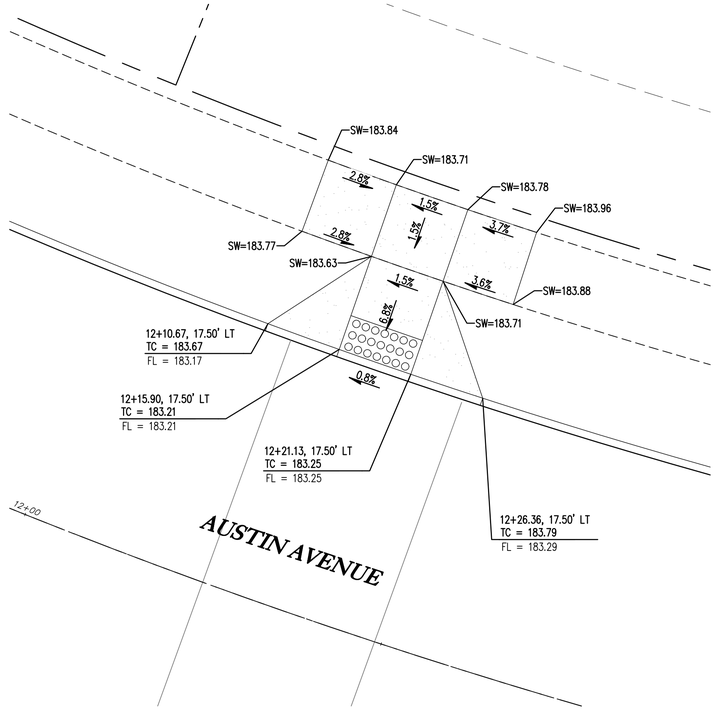
SHEET 16 OF 32

FILE P:\471-001 Smith Creek-Feasibility\dwg\civ\Phase 3B\471-001_16crb02, Layout: 16 CURB RETURN DETAILS, Plot Date: 9/10/2020 4:41 PM, by: Keelon Smith



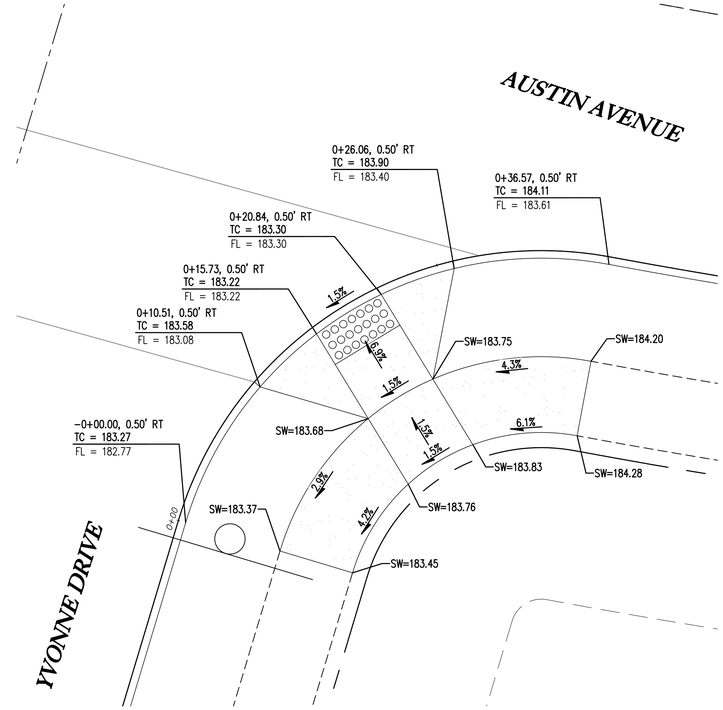
CURB RETURN - SW CORNER OF AUSTIN AND YVONNE (13)

1" = 5'



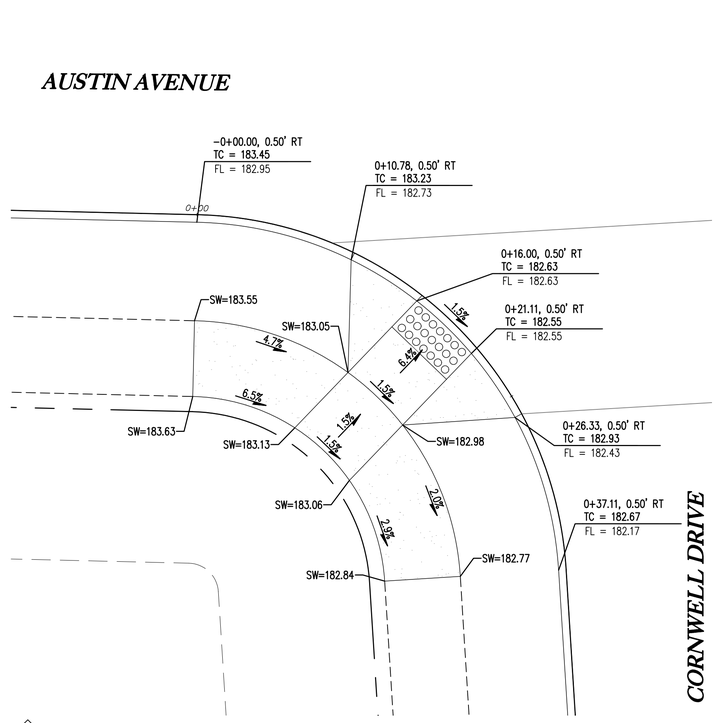
CURB RETURN - N CORNER OF AUSTIN AND YVONNE (14)

1" = 5'



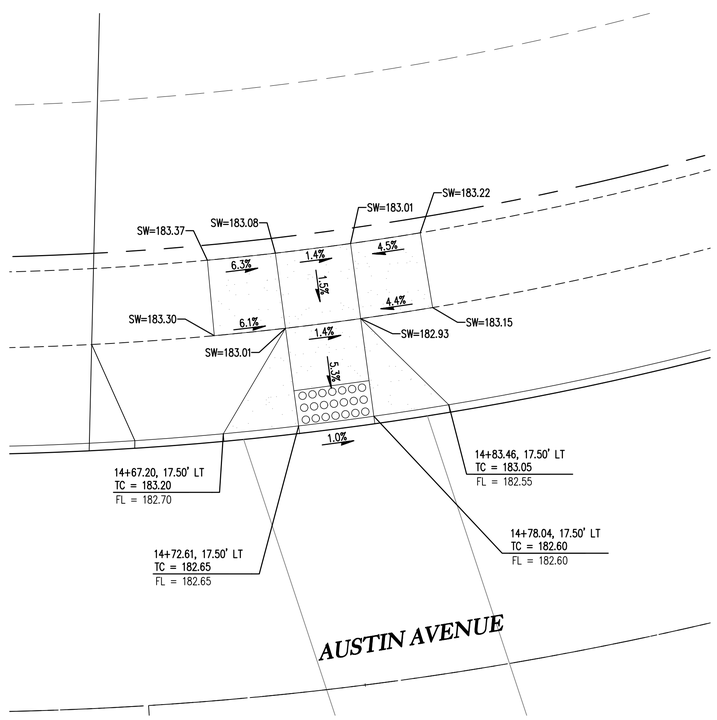
CURB RETURN - SE CORNER OF AUSTIN AND YVONNE (15)

1" = 5'



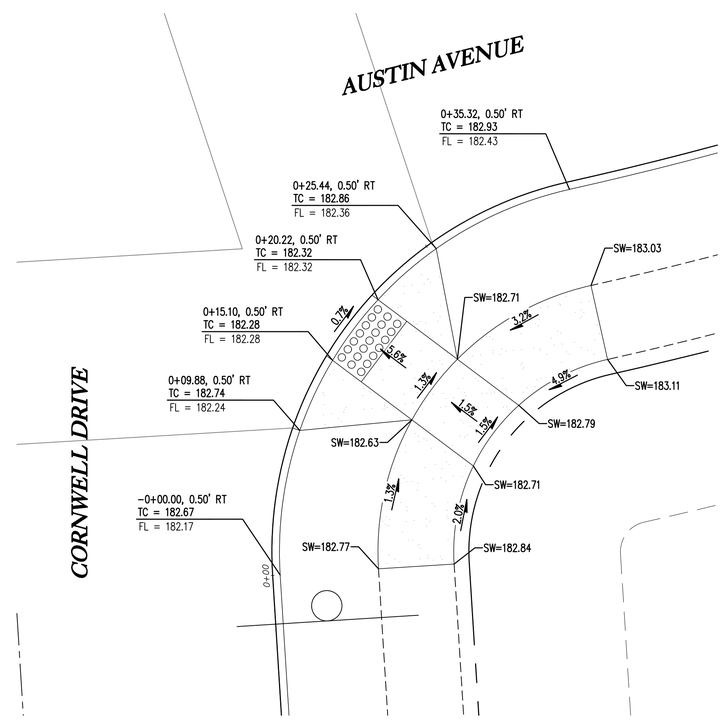
CURB RETURN - SW CORNER OF AUSTIN AND CORNWELL (16)

1" = 5'



CURB RETURN - N CORNER OF AUSTIN AND CORNWELL (17)

1" = 5'



CURB RETURN - SE CORNER OF AUSTIN AND CORNWELL (18)

1" = 5'

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

CURB RETURN DETAILS

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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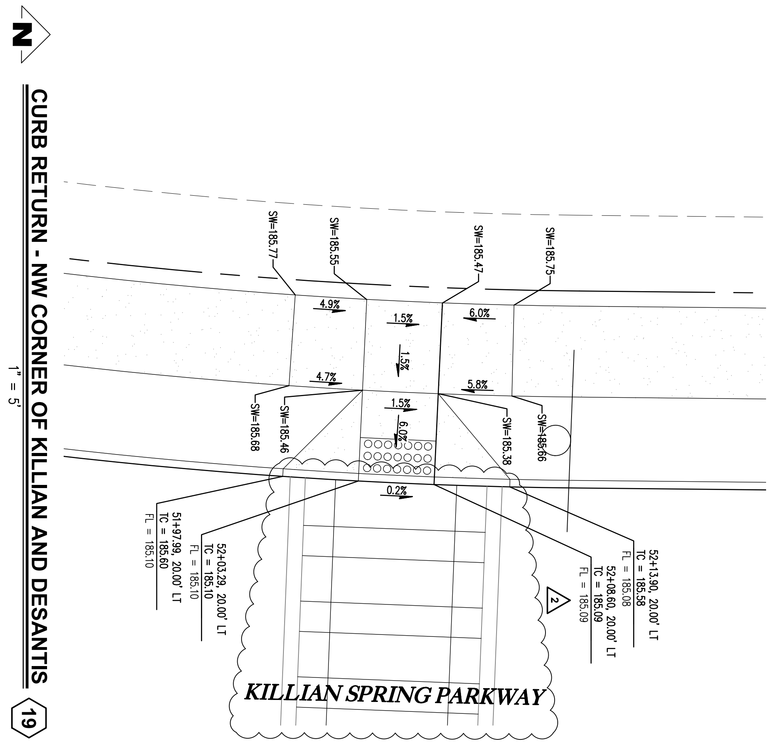
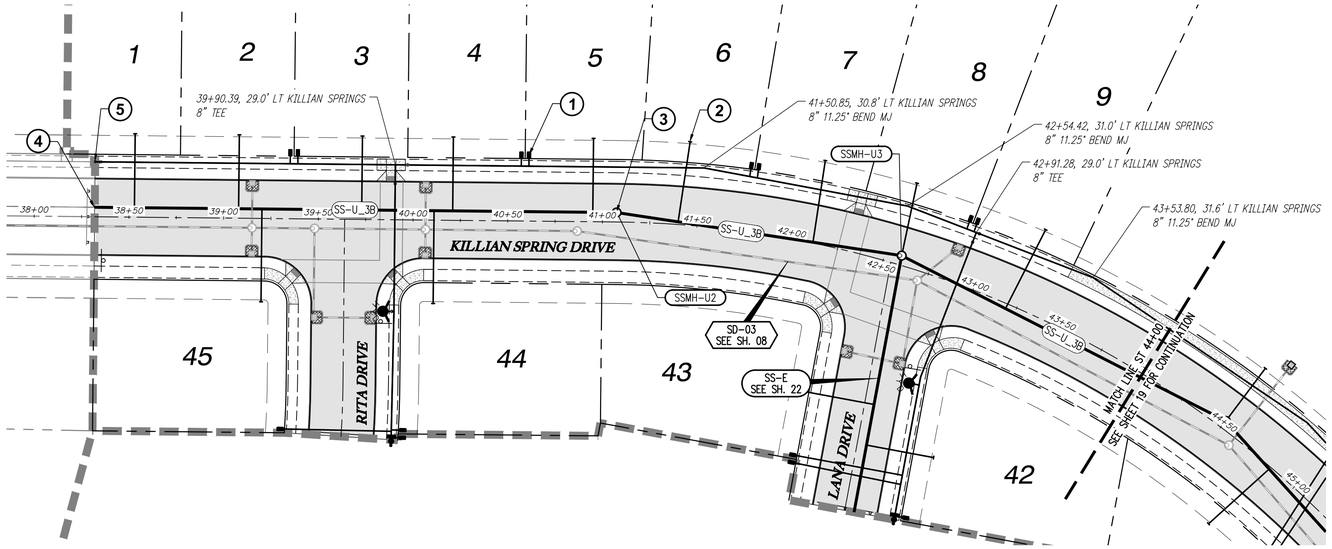
REGISTERED PROFESSIONAL ENGINEER
84283
OREGON
JULY 13, 2010
ROY W. HAWKINS
EXPIRES: 6/30/2021

SHEET 17 OF 32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_17cr03, Layout: 17 CURB RETURN DETAILS, Plot Date: 9/10/2020 4:42 PM, by: Keelon Smith

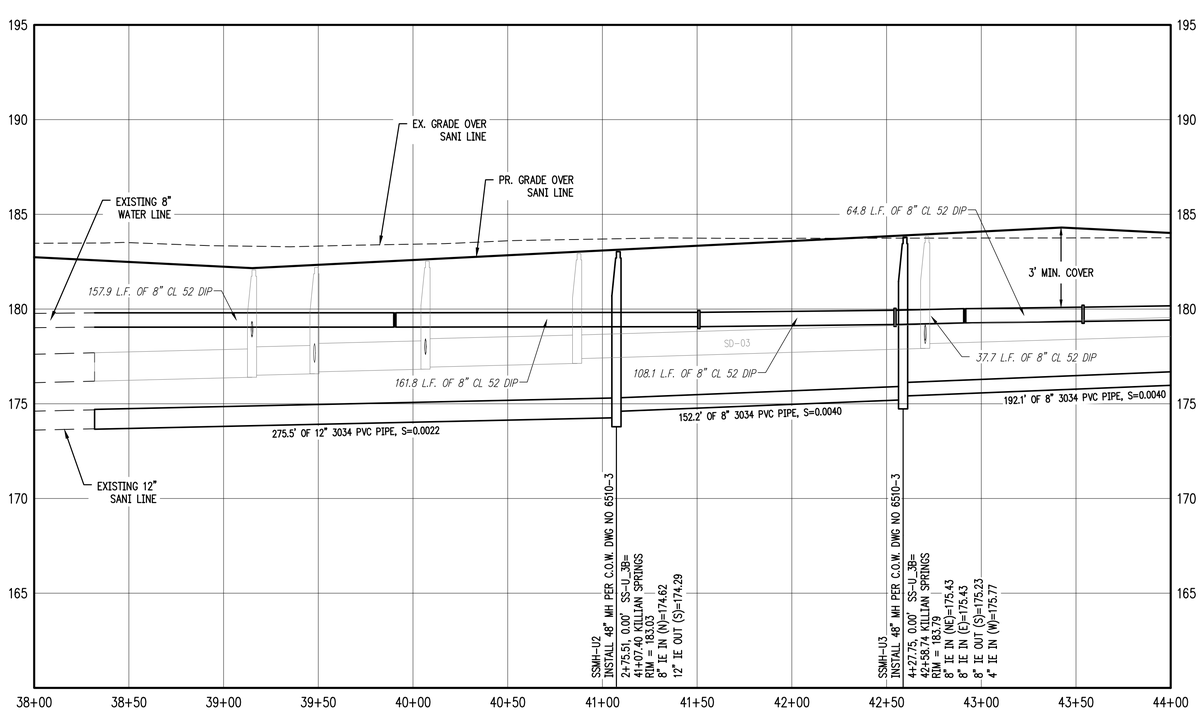


SHEET 18 OF 32	REGISTERED PROFESSIONAL ENGINEER OREGON JULY 15, 2005 SUNHWA ROBERT HAN 84183 RENEWAL: 6/30/2021	EMERIO Design 2677 WILLAKENZIE ROAD, SUITE 1A EUGENE, OR 97401 TEL: (503) 746-8812 FAX: (503) 639-9592 www.emeriodesign.com	REVISIONS NO. / DATE / DESCRIPTION 0 / 04/2020 / 1ST SUBMITTAL 1 / 07/2020 / 2ND SUBMITTAL 2 / 09/2020 / 3RD SUBMITTAL	**CURB RETURN DETAILS**	**SMITH CREEK - PHASE 3B** **TAX MAP 052W13-TL 100** **WOODBURN, OREGON**



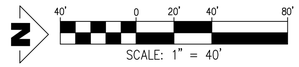
SANITARY SS-U STA 38+00 TO STA 44+00 & WATER LINE PLAN

SCALE: 1"=40'

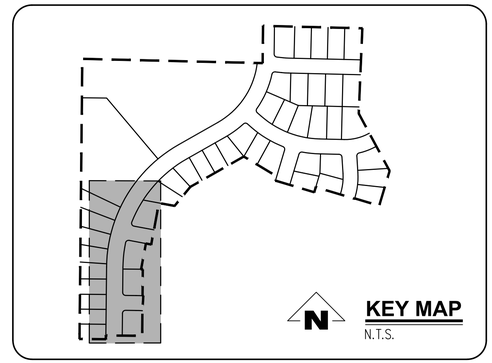


SANITARY SS-U STA 38+00 TO STA 44+00 & WATER LINE PROFILE

SCALE: 1"=40'



SCALE: 1" = 40'



GENERAL NOTES:

A. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

C. LATERAL NOTES: UNLESS NOTED OTHERWISE, ALL LATERALS ARE TO BE 4" PVC WITH A MINIMUM SLOPE OF 2.75% LATERAL CONNECTIONS TO MAIN SEWER LINE TO BE MADE WITH MANUFACTURED TEES.

D. ALL 2" x 4" SANITARY SERVICE CONNECTION MARKERS TO BE COLOR CODED GREEN.

E. INSTALL TEMPORARY SAMPLING TAP ASSEMBLIES PER C.O.W. DWG NO 5100-1. COORDINATE SAMPLING TAP LOCATIONS WITH CITY OF WOODBURN ENGINEER.

F. SANITARY SEWER CLEAN OUT TO BE INSTALLED IN R.O.W. BEHIND SIDEWALK PER CITY OF WOODBURN C.O.W. DWG NO 6200-3.

CONSTRUCTION NOTES:

1. INSTALL WATER METER BOX AND WATER SERVICE CONNECTION PER C.O.W. DWG NO 5000-4 & 5050-1.
2. INSTALL SANITARY SEWER SERVICE CONNECTION PER C.O.W. DWG NO 6200-3.
3. INSTALL SANITARY SEWER MANHOLE PER C.O.W. DWG NO 6510-3.
4. REMOVE PLUG AND TEMPORARY MANHOLE AT END OF EXISIING SANITARY LINE.
5. REMOVE EXISTING BLOWOFF WITH GATE VALVE REMAINING IN PLACE. CONTRACTOR SHALL VERIFY EXISTING VALVE IS NOT LEAKING PRIOR TO CONNECTING NEW LINE.
6. ALL WATER MAIN JOINTS TO BE RESTRAINED WITH MEGALUGS (TYP.)

SANITARY SEWER LATERAL TABLE

LOT NUM.	STA @ M.L.	SIZE & MATERIAL	LEN	I.E. @ M.L.	ASB	I.E. @ PLUG	ASB	SL	ASB	COVER @ PLUG	ASB
1	0+21	4" 3034 PVC	39.0'	174.06		178.24		0.1072		4.6'	
2	0+76	4" 3034 PVC	39.0'	174.18		177.97		0.0971		4.6'	
3	1+41	4" 3034 PVC	39.0'	174.32		178.22		0.1000		4.6'	
4	1+89	4" 3034 PVC	39.0'	174.43		178.46		0.1035		4.7'	
5	2+63	4" 3034 PVC	39.0'	174.59		178.84		0.1088		4.6'	
6	3+08	4" 3034 PVC	42.7'	174.92		179.07		0.0971		4.7'	
7	3+80	4" 3034 PVC	43.6'	175.20		179.13		0.0900		4.9'	
8	4+28	4" 3034 PVC	39.1'	175.77		179.31		0.0905		5.0'	
9	4+89	4" 3034 PVC	46.8'	175.84		179.59		0.0801		5.0'	
44	1+79	4" 3034 PVC	49.0'	174.41		177.65		0.0663		4.9'	
45	0+88	4" 3034 PVC	49.0'	174.21		177.64		0.0701		4.6'	

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

SANITARY SS-U STA 38+00 TO 44+00 & WATER LINE PLAN & PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

EMERIO Design
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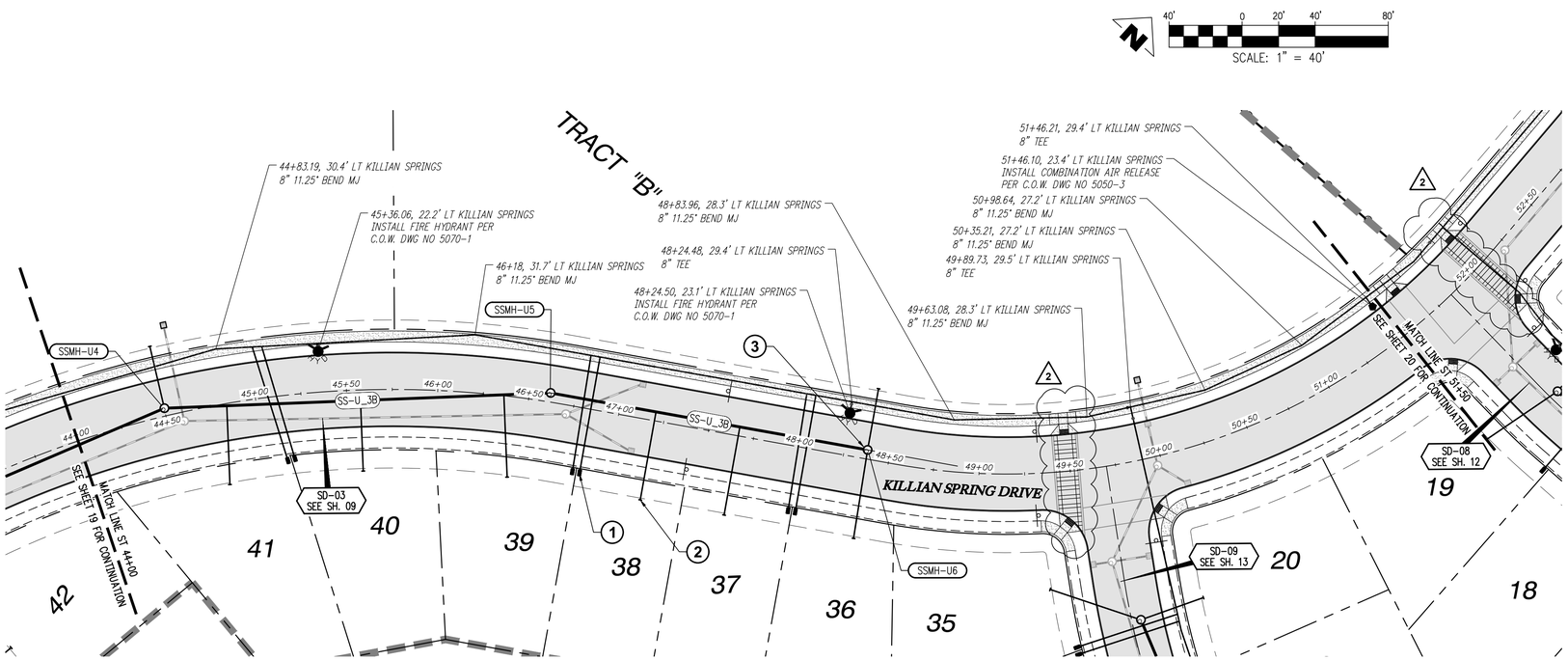
REGISTERED PROFESSIONAL ENGINEER
84283
OREGON
MAY 13, 2016
ROY W. HANKINS
EXPIRES: 6/30/2021

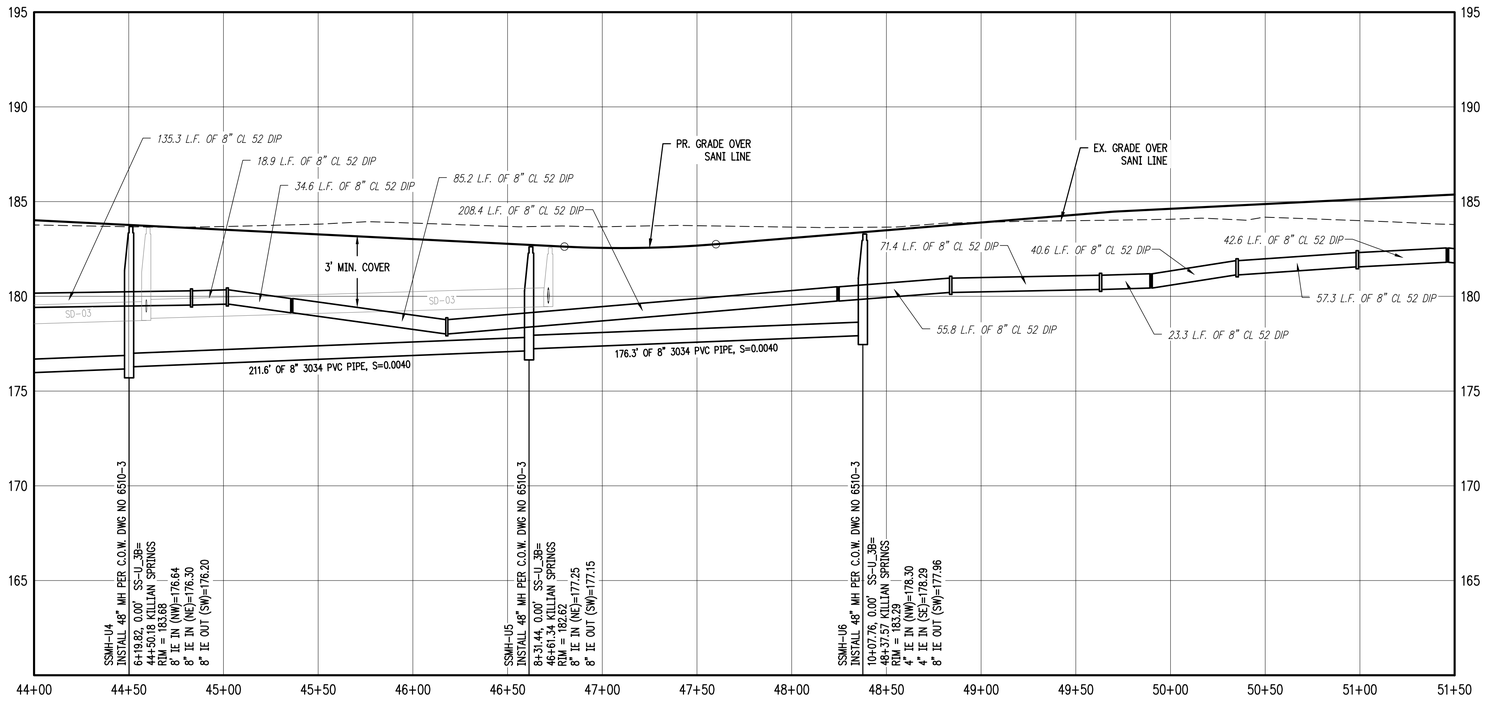
SHEET 19 OF 32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_3ss01, Layout: 19 SANITARY SS-U STA 38+00 TO 44+00 & WATER LINE PLAN & PROFILE, Plot Date: 9/10/2020 4:43 PM, by: Keelon Smith



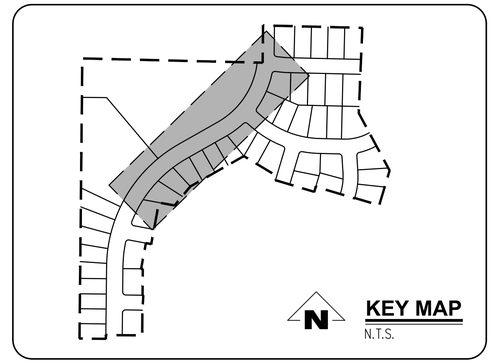
SANITARY SS-U STA 44+00 TO STA 51+50 & WATER LINE PLAN

SCALE: 1"=40'



SANITARY SS-U STA 44+00 TO STA 51+50 & WATER LINE PROFILE

SCALE: 1"=40'



GENERAL NOTES:

A. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

C. LATERAL NOTES: UNLESS NOTED OTHERWISE, ALL LATERALS ARE TO BE 4" PVC WITH A MINIMUM SLOPE OF 2.75% LATERAL CONNECTIONS TO MAIN SEWER LINE TO BE MADE WITH MANUFACTURED TEES.

D. ALL 2" x 4" SANITARY SERVICE CONNECTION MARKERS TO BE COLOR CODED GREEN.

E. INSTALL TEMPORARY SAMPLING TAP ASSEMBLIES PER C.O.W. DWG NO 5100-1. COORDINATE SAMPLING TAP LOCATIONS WITH CITY OF WOODBURN ENGINEER.

F. SANITARY SEWER CLEAN OUT TO BE INSTALLED IN R.O.W. BEHIND SIDEWALK PER CITY OF WOODBURN C.O.W. DWG NO 6200-3.

CONSTRUCTION NOTES:

1. INSTALL WATER METER BOX AND WATER SERVICE CONNECTION PER C.O.W. DWG NO 5000-4 & 5050-1.
2. INSTALL SANITARY SEWER SERVICE CONNECTION PER C.O.W. DWG NO 6200-3.
3. INSTALL SANITARY SEWER MANHOLE PER C.O.W. DWG NO 6510-3.
4. REMOVE PLUG AND TEMPORARY MANHOLE AT END OF EXISIING SANITARY LINE.
5. REMOVE EXISTING BLOWOFF WITH GATE VALVE REMAINING IN PLACE. CONTRACTOR SHALL VERIFY EXISTING VALVE IS NOT LEAKING PRIOR TO CONNECTING NEW LINE.
6. ALL WATER MAIN JOINTS TO BE RESTRAINED WITH MEGALUGS (TYP.)

SANITARY SEWER LATERAL TABLE

LOT NUM.	STA @ M.L.	SIZE & MATERIAL	LEN	I.E. @ M.L.	ASB	I.E. @ PLUG	ASB	SL	ASB	COVER @ PLUG	ASB
36	10+08	4" 3034 PVC	49.0'	178.29		179.27		0.0200		4.5'	
37	9+37	4" 3034 PVC	49.0'	177.84		178.82		0.0200		4.4'	
38	8+90	4" 3034 PVC	48.9'	177.65		178.63		0.0200		4.3'	
39	8+06	4" 3034 PVC	45.1'	177.21		178.20		0.0219		5.0'	
40	7+27	4" 3034 PVC	38.7'	176.90		178.66		0.0454		5.0'	
41	6+54	4" 3034 PVC	43.1'	176.60		179.04		0.0565		5.0'	
TRACT A	6+20	4" 3034 PVC	34.8'	176.64		178.32		0.0483		5.0'	
TRACT B	10+08	4" 3034 PVC	34.0'	178.30		178.98		0.0200		4.4'	

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

SANITARY SS-U STA 44+00 TO 51+50 & WATER LINE PLAN & PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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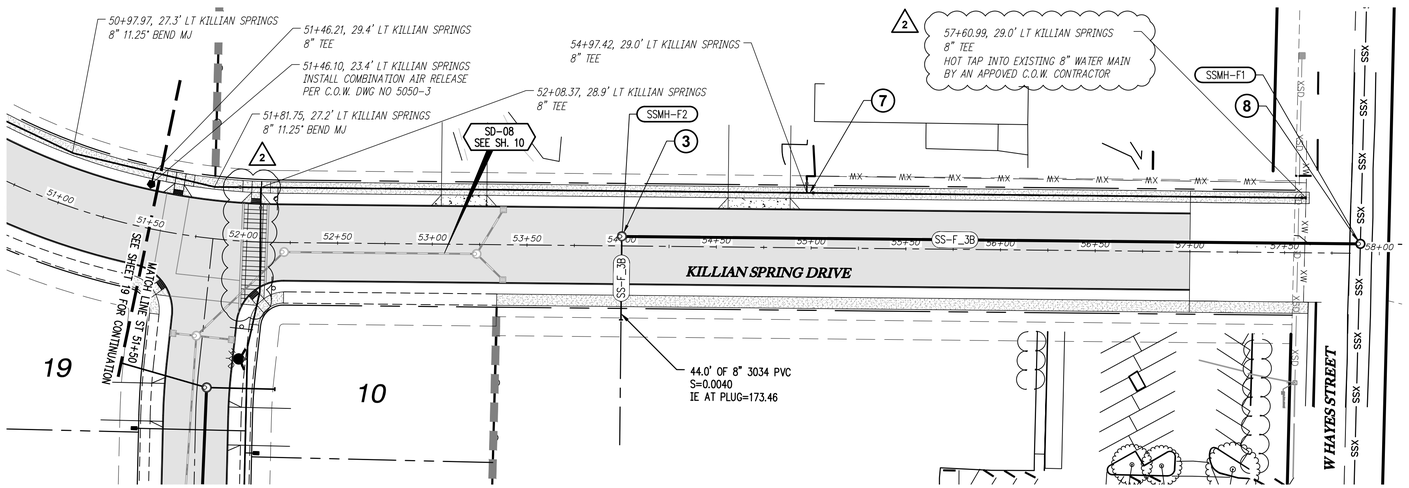
REGISTERED PROFESSIONAL ENGINEER
84283
OREGON
MAY 13, 2016
ROY W. HAWKINS
EXPIRES: 6/30/2021

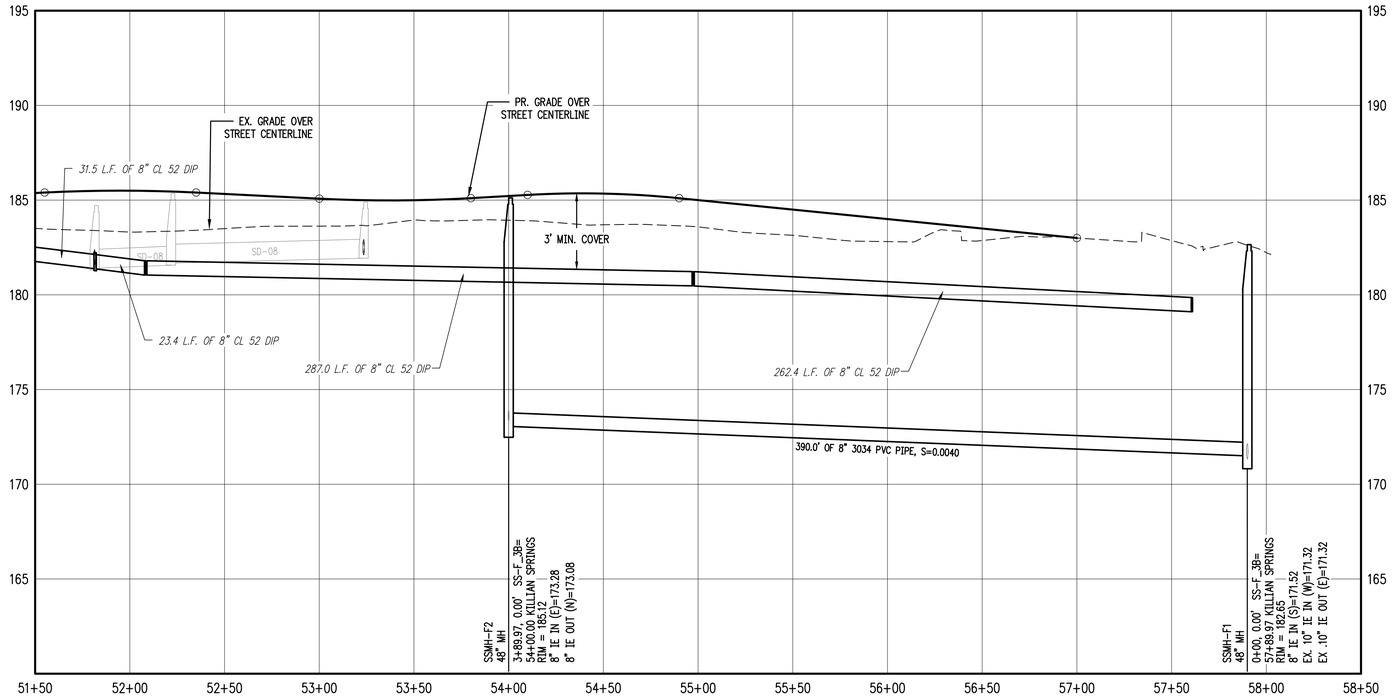
SHEET
20
OF
32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_20ss02, Layout: 20 SANITARY SS-U STA 44+00 TO 51+50 & WATER LINE PLAN & PROFILE, Plot Date: 9/10/2020 4:44 PM, by: Keelan Smith



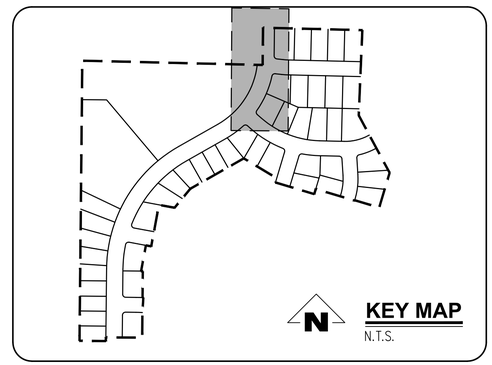
KILLIAN SPRING STA 51+50 TO 58+00 & WATER LINE PLAN

SCALE: 1"=40'



KILLIAN SPRING STA 51+50 TO 58+00 & WATER LINE PROFILE

SCALE: 1"=40'



GENERAL NOTES:

A. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

C. LATERAL NOTES: UNLESS NOTED OTHERWISE, ALL LATERALS ARE TO BE 4" PVC WITH A MINIMUM SLOPE OF 2.75% LATERAL CONNECTIONS TO MAIN SEWER LINE TO BE MADE WITH MANUFACTURED TEES.

D. ALL 2" x 4" SANITARY SERVICE CONNECTION MARKERS TO BE COLOR CODED GREEN.

E. INSTALL TEMPORARY SAMPLING TAP ASSEMBLIES PER C.O.W. DWG NO 5100-1. COORDINATE SAMPLING TAP LOCATIONS WITH CITY OF WOODBURN ENGINEER.

F. SANITARY SEWER CLEAN OUT TO BE INSTALLED IN R.O.W. BEHIND SIDEWALK PER CITY OF WOODBURN C.O.W. DWG NO 6200-3.

CONSTRUCTION NOTES:

1. INSTALL WATER METER BOX AND WATER SERVICE CONNECTION PER C.O.W. DWG NO 5000-4 & 5050-1.
2. INSTALL SANITARY SEWER SERVICE CONNECTION PER C.O.W. DWG NO 6200-3.
3. INSTALL SANITARY SEWER MANHOLE PER C.O.W. DWG NO 6510-3.
4. REMOVE PLUG AND TEMPORARY MANHOLE AT END OF EXISIING SANITARY LINE.
5. REMOVE EXISTING BLOWOFF WITH GATE VALVE REMAINING IN PLACE. CONTRACTOR SHALL VERIFY EXISTING VALVE IS NOT LEAKING PRIOR TO CONNECTING NEW LINE.
6. ALL WATER MAIN JOINTS TO BE RESTRAINED WITH MEGALUGS (TYP.)
7. CONNECT TO EXISTING WATERLINE WITH 8" TEE AND REPLACE EXISING CONNECTION TO HAYES WITH A WATERLINE UNDER KILLIAN SPRING SIDEWALK.
8. CONSTRUCT NEW SANITARY SEWER MANHOLE BY POURING CAST IN BASE AROUND THE EXISTING PIPELINE. CONSTRUCT TOP OF THE MANHOLE PER C.O.W. DWG NO 6510-3.

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

SANITARY SS-F STA 51+50 TO 58+00 & WATER LINE PLAN & PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

EMERIO Design
2677 WILLAMENZIE ROAD, SUITE 1A
EUGENE, OR 97401
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FAX: (503) 839-8843
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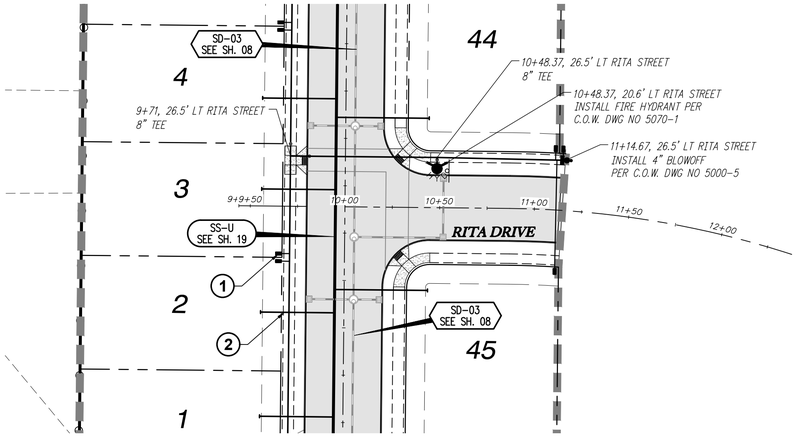
REGISTERED PROFESSIONAL ENGINEER
84283
OREGON
MAY 13, 2020
ROY W. HAWKINS
EXPIRES: 6/30/2021

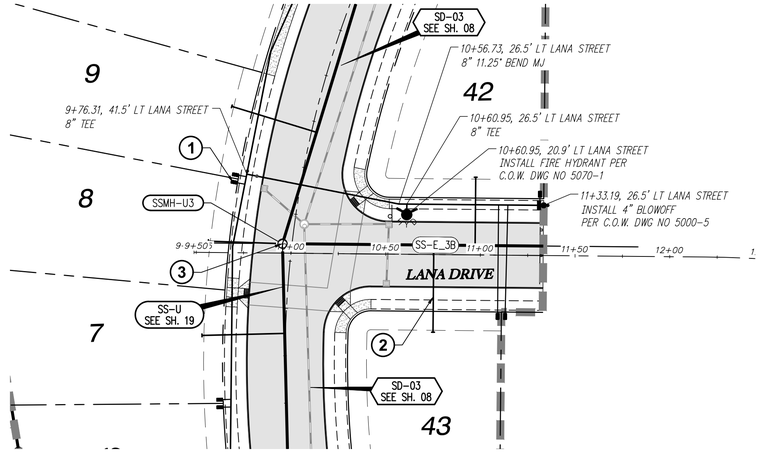
SHEET 21 OF 32

FILE P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_21ss03_Layout- 21 SANITARY SS-F STA 51+50 TO 58+00 & WATER LINE PLAN & PROFILE, Plot Date: 9/10/2020 4:44 PM, by Keelon Smith



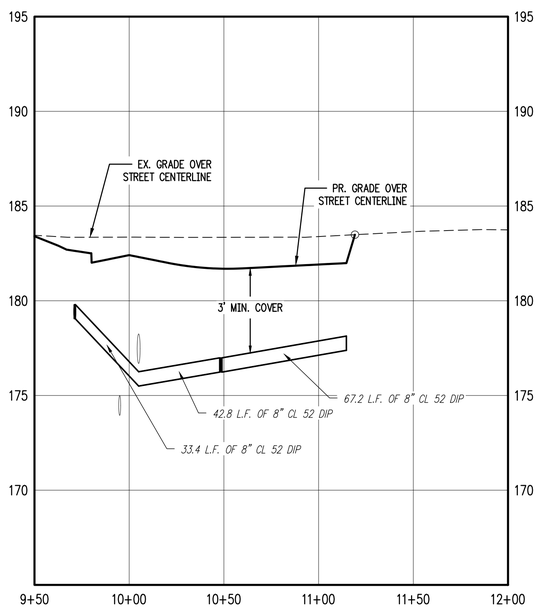
RITA DRIVE STA 9+50 TO STA 12+00 WATER LINE PLAN

SCALE: 1"=40'



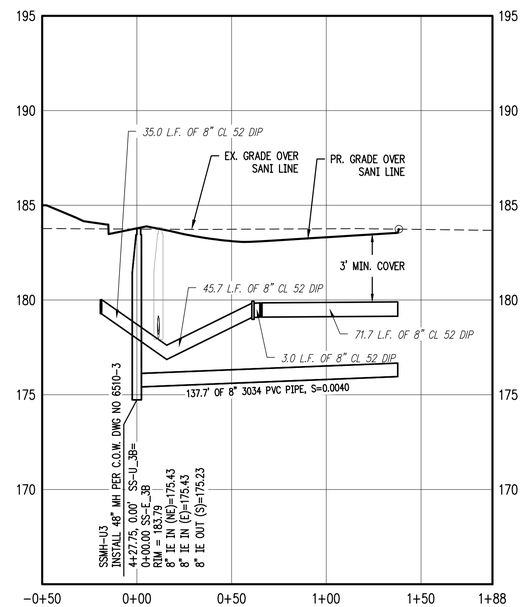
SANITARY SS-E STA 9+50 TO STA 12+00 & WATER LINE PLAN

SCALE: 1"=40'



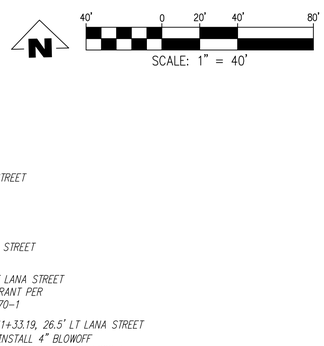
RITA DRIVE STA 9+50 TO STA 12+00 WATER LINE PROFILE

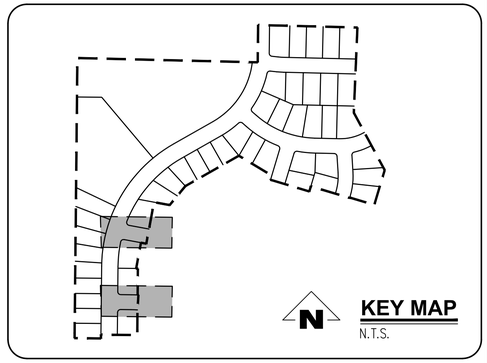
SCALE: 1"=40'



SANITARY SS-E STA 9+50 TO STA 12+00 & WATER LINE PROFILE

SCALE: 1"=40'





GENERAL NOTES:

A. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

C. LATERAL NOTES: UNLESS NOTED OTHERWISE, ALL LATERALS ARE TO BE 4" PVC WITH A MINIMUM SLOPE OF 2.75% LATERAL CONNECTIONS TO MAIN SEWER LINE TO BE MADE WITH MANUFACTURED TEES.

D. ALL 2" x 4" SANITARY SERVICE CONNECTION MARKERS TO BE COLOR CODED GREEN.

E. INSTALL TEMPORARY SAMPLING TAP ASSEMBLIES PER C.O.W. DWG NO 5100-1. COORDINATE SAMPLING TAP LOCATIONS WITH CITY OF WOODBURN ENGINEER.

F. SANITARY SEWER CLEAN OUT TO BE INSTALLED IN R.O.W. BEHIND SIDEWALK PER CITY OF WOODBURN C.O.W. DWG NO 6200-3.

CONSTRUCTION NOTES:

1. INSTALL WATER METER BOX AND WATER SERVICE CONNECTION PER C.O.W. DWG NO 5000-4 & 5050-1.
2. INSTALL SANITARY SEWER SERVICE CONNECTION PER C.O.W. DWG NO 6200-3.
3. INSTALL SANITARY SEWER MANHOLE PER C.O.W. DWG NO 6510-3.
4. REMOVE PLUG AND TEMPORARY MANHOLE AT END OF EXISIING SANITARY LINE.
5. REMOVE EXISTING BLOWOFF WITH GATE VALVE REMAINING IN PLACE. CONTRACTOR SHALL VERIFY EXISTING VALVE IS NOT LEAKING PRIOR TO CONNECTING NEW LINE.
6. ALL WATER MAIN JOINTS TO BE RESTRAINED WITH MEGALUGS (TYP.)

SANITARY SEWER LATERAL TABLE

LOT NUM.	STA @ M.L.	SIZE & MATERIAL	LEN	I.E. @ M.L.	ASB	I.E. @ PLUG	ASB	SL	ASB	COVER @ PLUG	ASB
42	1+02	4" 3034 PVC	36.0'	176.00		178.70		0.0750		5.1'	
43	0+80	4" 3034 PVC	46.0'	175.92		179.12		0.0696		4.6'	

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

RITA DR, LANA DR,
SANITARY SS-E & WATER
LINE PLAN & PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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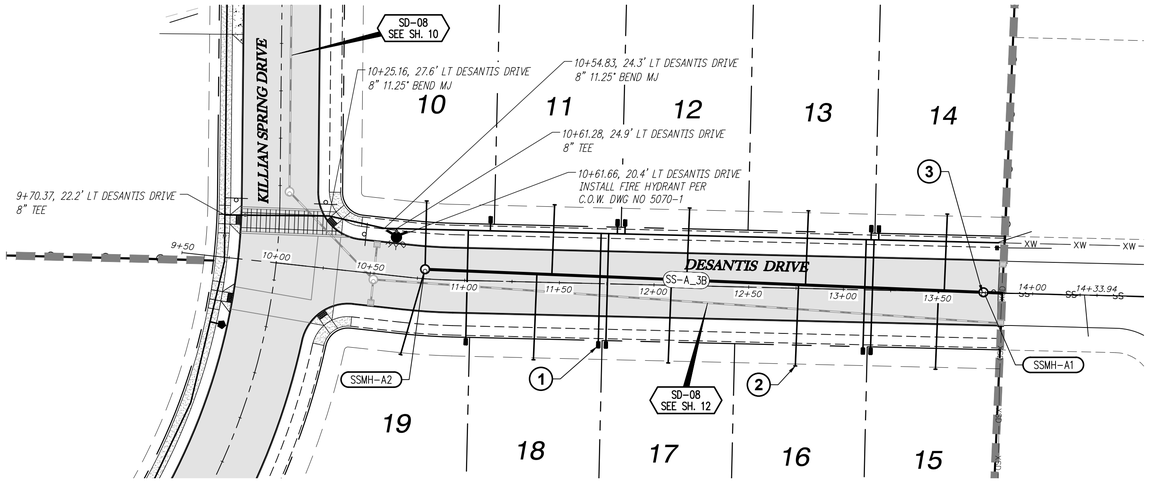
REGISTERED PROFESSIONAL ENGINEER
84283
OREGON
MAY 13, 2016
ROY W. HANKINS
EXPIRES: 6/30/2021

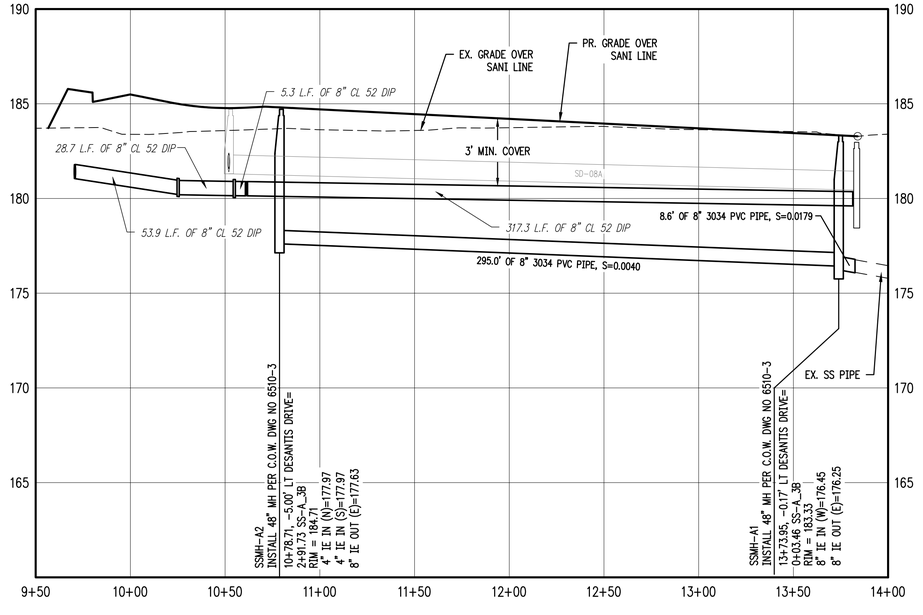
SHEET
22
OF
32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_22ss04, Layout: 22 RITA DR LANA DR SANITARY SS-E & WATERLINE PLAN & PROFILE, Plot Date: 9/10/2020 4:45 PM, by: Keelon Smith



SANITARY SS-A STA 9+50 TO 14+00 & WATER LINE PLAN

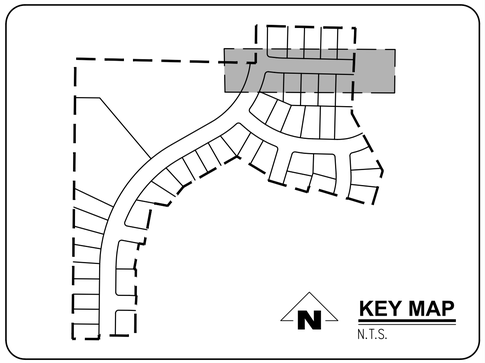
SCALE: 1"=40'



SANITARY SS-A STA 9+50 TO 14+00 & WATER LINE PROFILE

SCALE: 1"=40'

SCALE: 1" = 40'



KEY MAP

N.T.S.

GENERAL NOTES:

A. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

C. LATERAL NOTES: UNLESS NOTED OTHERWISE, ALL LATERALS ARE TO BE 4" PVC WITH A MINIMUM SLOPE OF 2.75% LATERAL CONNECTIONS TO MAIN SEWER LINE TO BE MADE WITH MANUFACTURED TEES.

D. ALL 2" x 4" SANITARY SERVICE CONNECTION MARKERS TO BE COLOR CODED GREEN.

E. INSTALL TEMPORARY SAMPLING TAP ASSEMBLIES PER C.O.W. DWG NO 5100-1. COORDINATE SAMPLING TAP LOCATIONS WITH CITY OF WOODBURN ENGINEER.

F. SANITARY SEWER CLEAN OUT TO BE INSTALLED IN R.O.W. BEHIND SIDEWALK PER CITY OF WOODBURN C.O.W. DWG NO 6200-3.

CONSTRUCTION NOTES:

1. INSTALL WATER METER BOX AND WATER SERVICE CONNECTION PER C.O.W. DWG NO 5000-4 & 5050-1.
2. INSTALL SANITARY SEWER SERVICE CONNECTION PER C.O.W. DWG NO 6200-3.
3. INSTALL SANITARY SEWER MANHOLE PER C.O.W. DWG NO 6510-3.
4. REMOVE PLUG AND TEMPORARY MANHOLE AT END OF EXISIING SANITARY LINE.
5. REMOVE EXISTING BLOWOFF WITH GATE VALVE REMAINING IN PLACE. CONTRACTOR SHALL VERIFY EXISTING VALVE IS NOT LEAKING PRIOR TO CONNECTING NEW LINE.
6. ALL WATER MAIN JOINTS TO BE RESTRAINED WITH MEGALUGS (TYP.)

SANITARY SEWER LATERAL TABLE

LOT NUM.	STA @ M.L.	SIZE & MATERIAL	LEN	I.E. @ M.L.	ASB	I.E. @ PLUG	ASB	SL	ASB	COVER @ PLUG	ASB
10	2+92	4" 3034 PVC	36.1'	177.97		180.26		0.0635		5.0'	
11	2+25	4" 3034 PVC	36.8'	177.53		179.92		0.0649		5.0'	
12	1+53	4" 3034 PVC	38.1'	177.24		179.58		0.0614		5.0'	
13	0+91	4" 3034 PVC	39.2'	176.99		179.26		0.0578		5.0'	
14	0+17	4" 3034 PVC	40.5'	176.70		178.92		0.0548		5.0'	
15	0+20	4" 3034 PVC	41.6'	176.71		179.29		0.0618		4.6'	
16	0+94	4" 3034 PVC	42.9'	177.00		179.65		0.0616		4.6'	
17	1+61	4" 3034 PVC	44.1'	177.28		179.99		0.0615		4.6'	
18	2+32	4" 3034 PVC	45.3'	177.56		180.35		0.0614		4.6'	
19	2+92	4" 3034 PVC	46.8'	177.97		180.30		0.0497		5.0'	

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

SANITARY SS-A STA 9+50 TO 14+00 & WATER LINE PLAN & PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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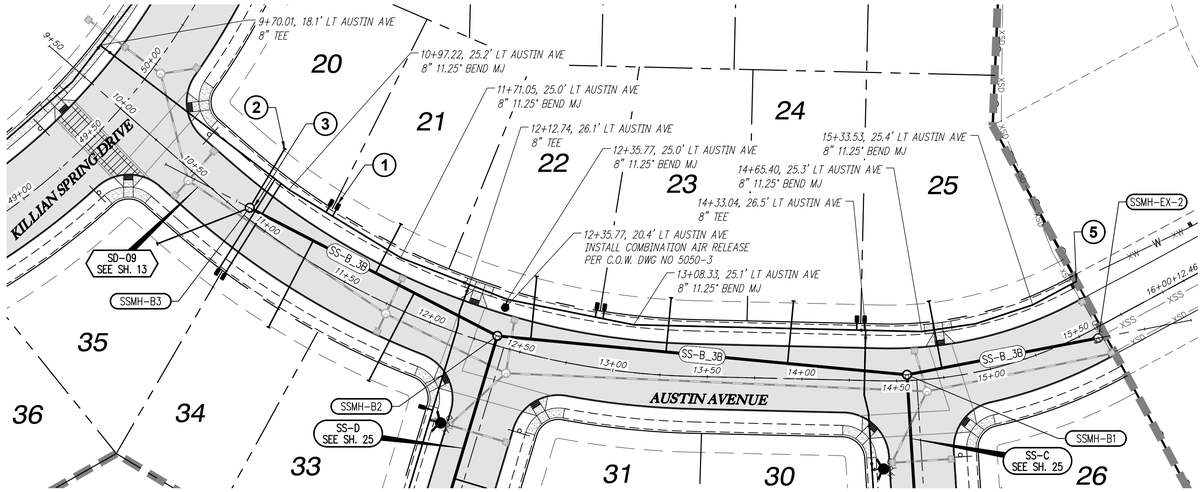
REGISTERED PROFESSIONAL ENGINEER
84283
OREGON
MAY 13, 2020
TROY W. HANKINS
EXPIRES: 6/30/2021

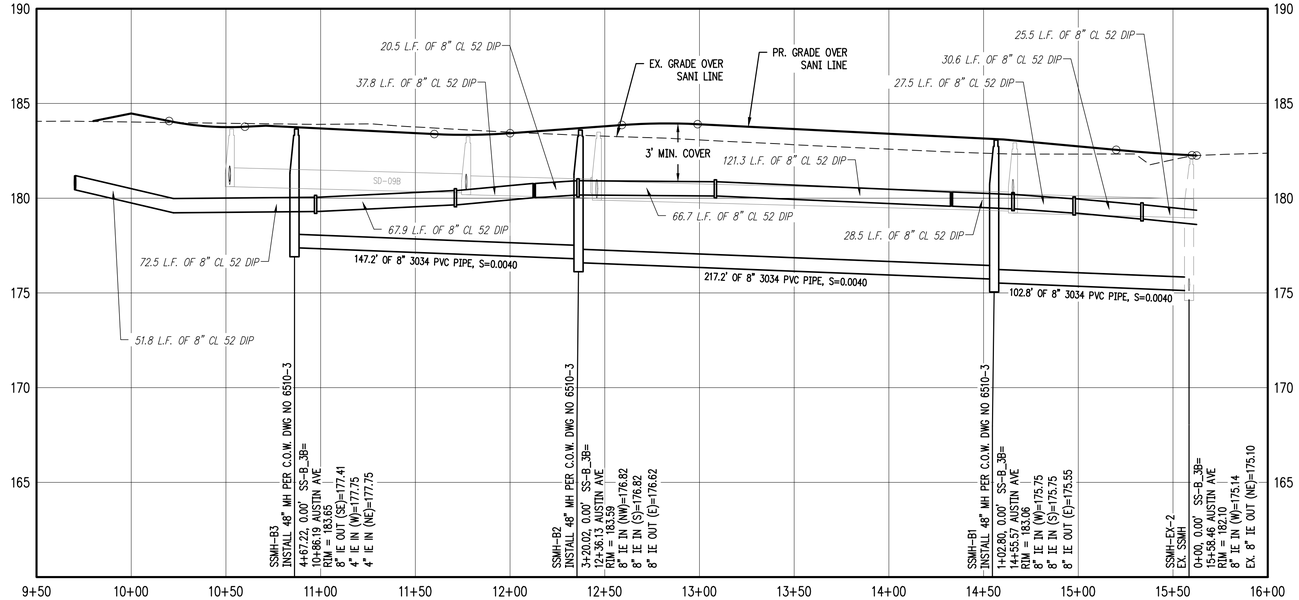
SHEET 23 OF 32

FILE P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_23ss05; Layout: 23 SANITARY SS-A STA 9+50 TO 14+00 & WATER LINE PLAN & PROFILE; Plot Date: 9/10/2020 4:46 PM; by: Keelon Smith



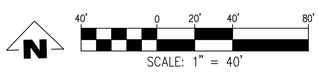
SANITARY SS-B STA 9+50 TO 16+00 & WATER LINE PLAN

SCALE: 1"=40'

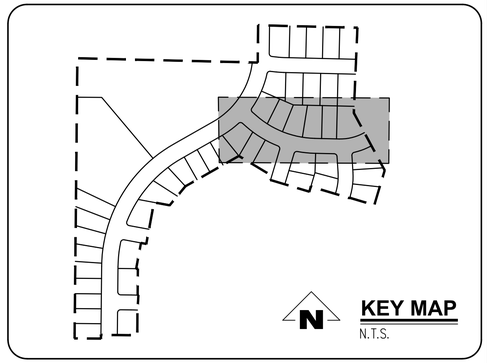


SANITARY SS-B STA 9+50 TO 16+00 & WATER LINE PROFILE

SCALE: 1"=40'



SCALE: 1" = 40'



GENERAL NOTES:

A. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, LOCATION & DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

C. LATERAL NOTES: UNLESS NOTED OTHERWISE, ALL LATERALS ARE TO BE 4" PVC WITH A MINIMUM SLOPE OF 2.75%. LATERAL CONNECTIONS TO MAIN SEWER LINE TO BE MADE WITH MANUFACTURED TEES.

D. ALL 2" x 4" SANITARY SERVICE CONNECTION MARKERS TO BE COLOR CODED GREEN.

E. INSTALL TEMPORARY SAMPLING TAP ASSEMBLIES PER C.O.W. DWG NO 5100-1. COORDINATE SAMPLING TAP LOCATIONS WITH CITY OF WOODBURN ENGINEER.

F. SANITARY SEWER CLEAN OUT TO BE INSTALLED IN R.O.W. BEHIND SIDEWALK PER CITY OF WOODBURN C.O.W. DWG NO 6200-3.

CONSTRUCTION NOTES:

1. INSTALL WATER METER BOX AND WATER SERVICE CONNECTION PER C.O.W. DWG NO 5000-4 & 5050-1.
2. INSTALL SANITARY SEWER SERVICE CONNECTION PER C.O.W. DWG NO 6200-3.
3. INSTALL SANITARY SEWER MANHOLE PER C.O.W. DWG NO 6510-3.
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SANITARY SEWER LATERAL TABLE

LOT NUM.	STA @ M.L.	SIZE & MATERIAL	LEN	I.E. @ M.L.	ASB	I.E. @ PLUG	ASB	SL	ASB	COVER @ PLUG	ASB
20	4+67	4" 3034 PVC	36.3'	177.75		179.25		0.0413		5.0'	
21	3+92	4" 3034 PVC	29.1'	177.27		178.84		0.0537		5.0'	
22	3+02	4" 3034 PVC	33.3'	176.71		180.03		0.0995		4.2'	
23	2+31	4" 3034 PVC	28.7'	176.43		180.11		0.1280		4.1'	
24	1+66	4" 3034 PVC	33.1'	176.17		179.87		0.1117		4.0'	
25	0+84	4" 3034 PVC	36.0'	175.64		179.12		0.0964		4.2'	
33	3+69	4" 3034 PVC	52.3'	177.18		178.82		0.0313		5.0'	
34	4+29	4" 3034 PVC	51.5'	177.42		179.01		0.0308		5.0'	
35	4+67	4" 3034 PVC	52.4'	177.75		179.26		0.0288		5.0'	

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

SANITARY SS-B STA 9+50 TO 16+00 & WATER LINE PLAN & PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

EMERIO Design
2677 WILLAKENZIE ROAD, SUITE 1A
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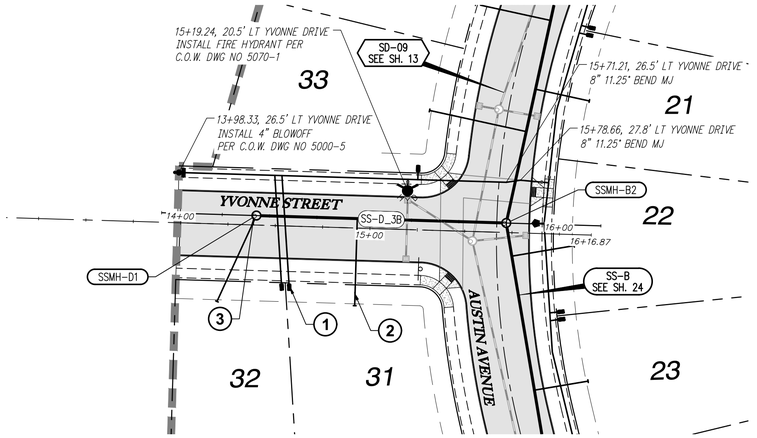
84283
OREGON
MAY 13, 2015
ROY W. HANKINS
EXPIRES: 6/30/2021

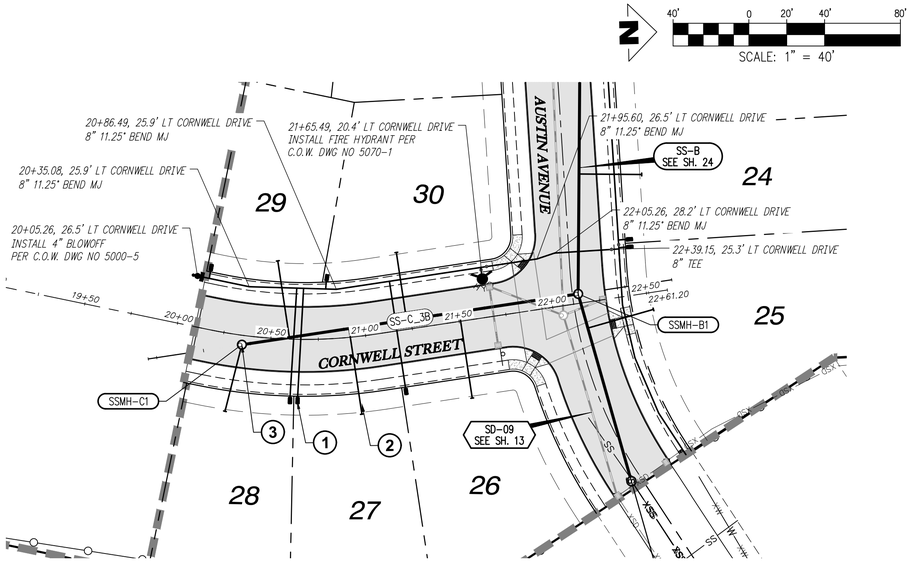
SHEET 24 OF 32

FILE P: \471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_24ss06, Layout: 24 SANITARY SS-B STA 9+50 TO 16+00 & WATER LINE PLAN & PROFILE, Plot Date: 9/10/2020 4:46 PM, by: Keelon Smith



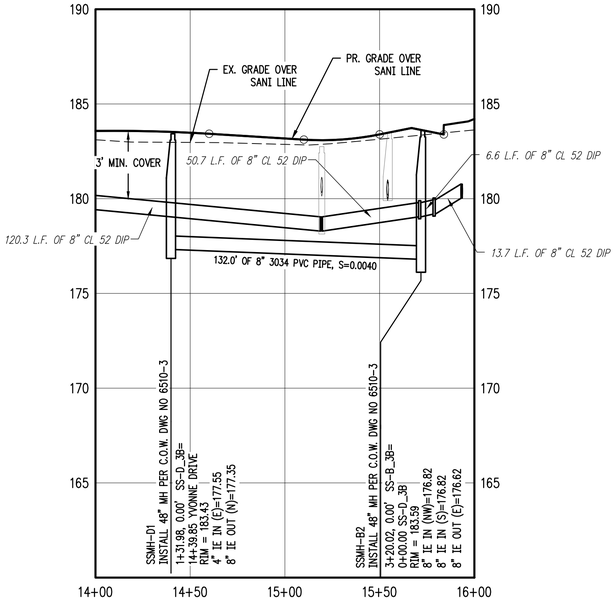
SANITARY SS-D STA 14+00 TO 16+00 & WATER LINE PLAN

SCALE: 1"=40'



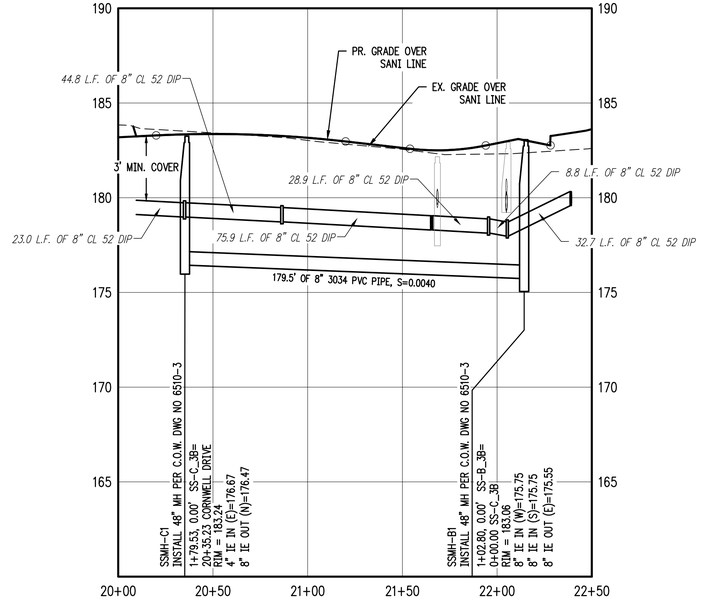
SANITARY SS-C STA 20+00 TO 22+50 & WATER LINE PLAN

SCALE: 1"=40'



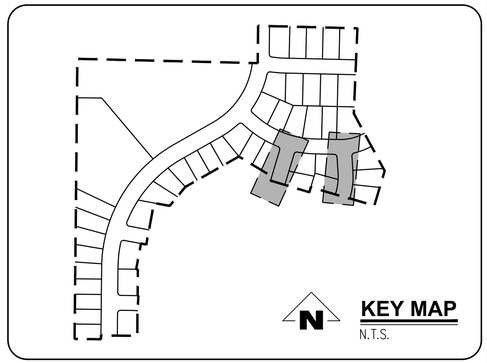
SANITARY SS-D STA 14+00 TO 16+00 & WATER LINE PLAN

SCALE: 1"=40'



SANITARY SS-C STA 20+00 TO 22+50 & WATER LINE PLAN

SCALE: 1"=40'



GENERAL NOTES:

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B. BACKFILL NOTE: UNLESS NOTED OTHERWISE, PIPES UNDER PAVED SURFACE REQUIRE GRANULAR BACKFILL. FOR PIPES OUTSIDE PAVEMENT, NATIVE BACKFILL IS PERMITTED.

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CONSTRUCTION NOTES:

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SANITARY SEWER LATERAL TABLE

LOT NUM.	STA @ M.L.	SIZE & MATERIAL	LEN	I.E. @ M.L.	ASB	I.E. @ PLUG	ASB	SL	ASB	COVER @ PLUG	ASB
26	0+63	4" 3034 PVC	46.0'	176.17		178.73		0.0555		4.4'	
27	1+22	4" 3034 PVC	45.7'	176.41		179.11		0.0591		4.6'	
28	1+80	4" 3034 PVC	36.2'	176.67		179.35		0.0739		4.4'	
29	1+54	4" 3034 PVC	40.9'	176.53		178.83		0.0560		5.0'	
30	0+92	4" 3034 PVC	36.0'	176.28		178.34		0.0570		5.0'	
31	0+79	4" 3034 PVC	46.0'	177.30		179.13		0.0397		4.6'	
32	1+32	4" 3034 PVC	49.9'	177.55		179.71		0.0432		4.3'	

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

SANITARY SS-C AND SS-D & WATER LINE PLAN & PROFILE

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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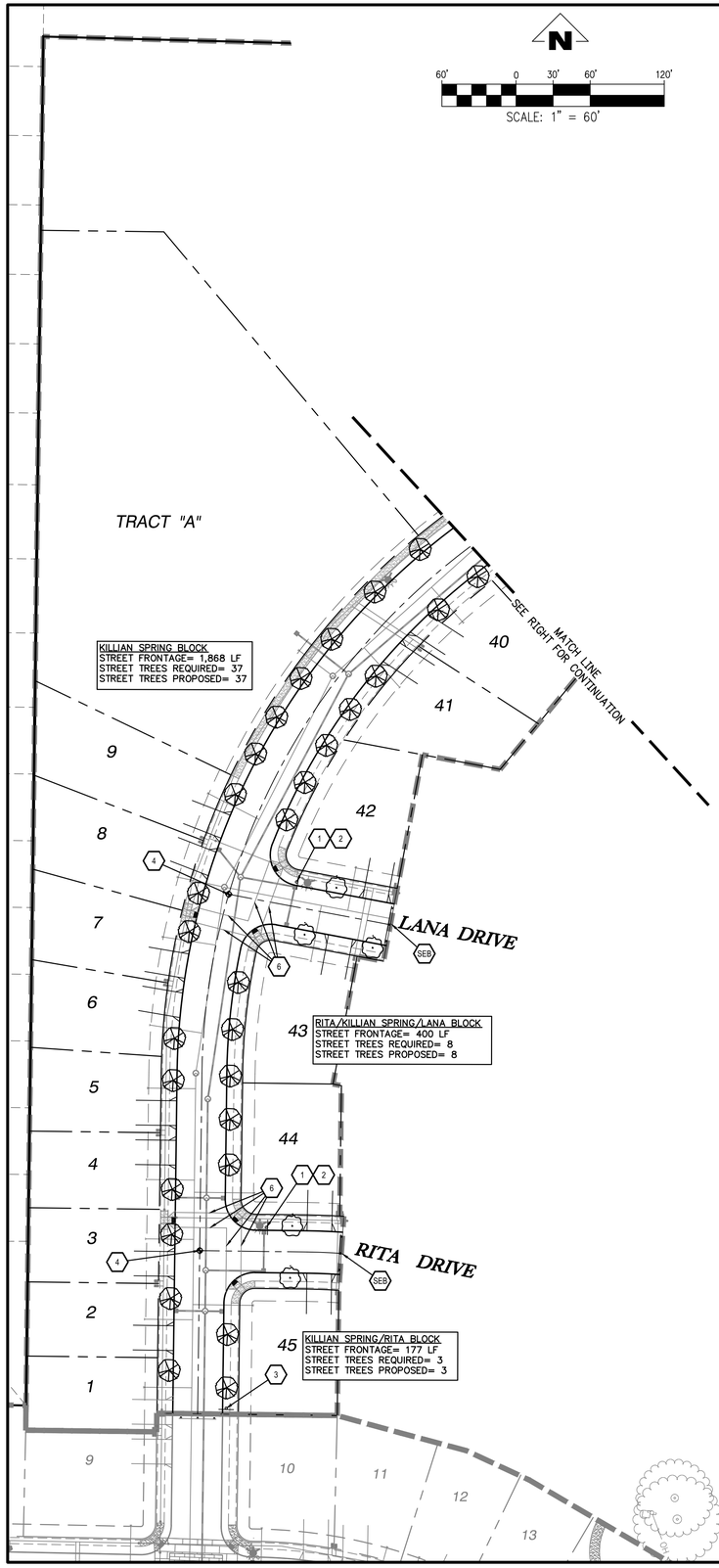
REGISTERED PROFESSIONAL ENGINEER
84283
OREGON
MAY 13, 2010
ROY W. HAWKINS
EXPIRES: 6/30/2021

SHEET
25
OF
32

FILE P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_25ss01; Layout: 25 SANITARY SS-C AND SS-D & WATER LINE PLAN & PROFILE, Plot Date: 9/10/2020 4:47 PM, by: Keelan Smith



SIGNAGE LEGEND

STOP R1-1 30" X 30" 1 REQUIRED; 6 – PROPOSED (1)	CENTERLINE SURVEY MONUMENT; 6 – PROPOSED (4)	SCHOOL SPEED LIMIT 20 SCHOOL DAYS 7AM - 5PM; 1 – PROPOSED (8)	END SCHOOL SPEED LIMIT; 1 – PROPOSED (9)
MEET MUTCD STANDARDS {30"} "STREET NAME" {6"} 2 SIDED; 6 – PROPOSED (2)	SPEED LIMIT 25 30" X 36"; 2 – PROPOSED (3)		
NO PARKING FIRE LANE TOW AWAY ZONE; 0 – PROPOSED (NPL)	NO PARKING FIRE LANE TOW AWAY ZONE; 0 – PROPOSED (NPR)	1 – PROPOSED (5)	
NO PARKING FIRE LANE TOW AWAY ZONE; 0 – PROPOSED (NPA)	TYPE III TEMPORARY BARRICADE PER ODOT STANDARDS ATTACH SIGN TO BARRICADE STATING "THIS STREET IS PLANNED FOR FUTURE EXTENSION"; 4 – PROPOSED (SEB)	2 – PROPOSED (7)	
		INSTALL NEW THERMOPLASTIC CROSSWALK STRIPING; 6 – PROPOSED (6)	

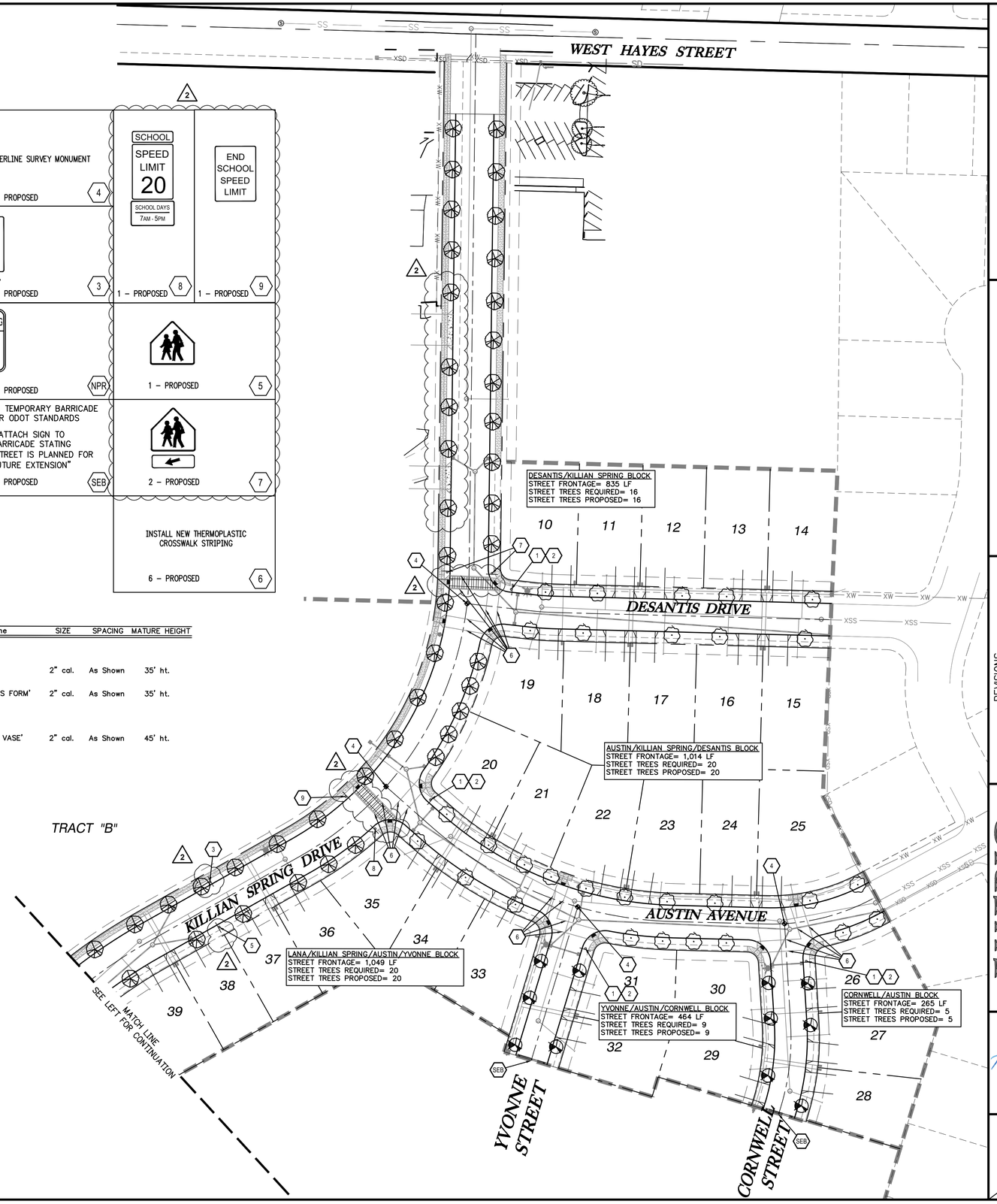
TREE PLANTING NOTES:

1. INSTALL STREET TREES TYPICALLY AT 50' O.C. PER CITY OF WOODBURN STREET TREE PLANTING REGULATIONS.

PLANT LIST: STREET TREES

SYMBOL	QTY.	LATIN NAME/ Common Name	SIZE	SPACING	MATURE HEIGHT
		SMALL TREES			
	36	ACER RUBRUM 'GERLING' Gerling Red Maple	2" cal.	As Shown	35' ht.
	11	PYRUS CALLERYANA 'GLEN'S FORM' Chanticleer Flowering Pear	2" cal.	As Shown	35' ht.
		MEDIUM TREES			
	71	ZELKOVA SERRATA 'GREEN VASE' Green Vase Zelkova	2" cal.	As Shown	45' ht.

(*) OR OTHER APPROVED SPECIES



SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

STREET SIGNAGE STRIPING & STREET TREE PLAN

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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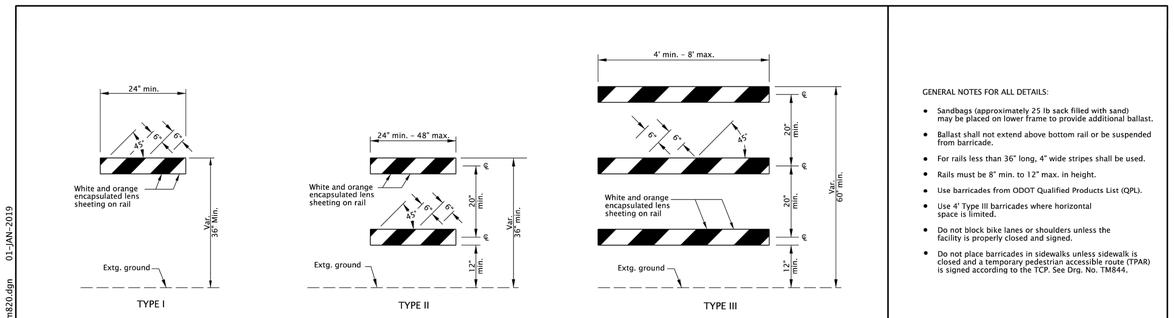
REGISTERED PROFESSIONAL ENGINEER
84283
OREGON
MAY 13, 2016
ROY W. HANKINS
EXPIRES: 6/30/2021

SHEET 26 OF 32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_Design_Layout- 26 STREET SIGNAGE STRIPING & STREET TREE PLAN, Plot Date: 9/10/2020 4:48 PM, by: Keelon Smith



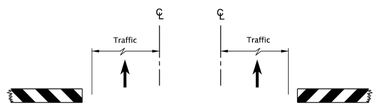
BARRICADE RAIL LAYOUT

GENERAL NOTES FOR ALL DETAILS:

- Sandbags (approximately 25 lb sack filled with sand) may be placed on lower frame to provide additional ballast.
- Ballast shall not extend above bottom rail or be suspended from barricade.
- For rails less than 36" long, 4" wide stripes shall be used.
- Rails must be 8" min. to 12" max. in height.
- Use barricades from ODOT Qualified Products List (QPL).
- Use 4' Type III barricades where horizontal space is limited.
- Do not block bike lanes or shoulders unless the facility is properly closed and signed.
- Do not place barricades in sidewalks unless sidewalk is closed and a temporary pedestrian accessible route (TPAR) is signed according to the TCP. See Drg. No. TM844.

NOTES:

- Markings for barricade rails shall slope downward at an angle of 45° in the direction traffic is to pass.
- Where a barricade extends entirely across a roadway, it is desirable that the stripes slope downward in the direction toward which traffic must turn in detouring.
- Where both right and left turns are provided for, slope the chevron striping downward in both directions from the center of the barricade.
- For full roadway closures, the C or LR barricade may be used. Extend barricades completely across roadway unless access is required for local road users.



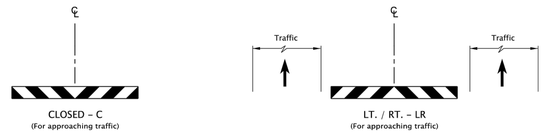


DIAGRAM FOR BARRICADE PLACEMENT AND SLOPE MARKING

BARRICADE NOTATION

CALC. BOOK NO. _ _ _ _ _ N/A. _ _ _ _ _

BASELINE REPORT DATE _ _ _ _ 01-JAN-2019. _ _ _ _

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

TEMPORARY BARRICADES

2018

DATE	REVISION DESCRIPTION
01-2019	REVISED NOTES

Effective Date: June 1, 2020 - November 30, 2020

TM820

tm820.dgn 01-JAN-2019

SIGNING MATERIALS	
STOP & YIELD SIGNS	ENCAPSULATED LENS REFLECTIVE SHEETING.
SCHOOL ADVANCE AND CROSSING SIGNS	PRISMATIC LENS YELLOW/GREEN REFLECTIVE SHEETING
STREET NAME SIGNS (POST & OVERHEAD MOUNTED)	LETTERS-ENCAPSULATED LENS SHEETING. BACKGROUND-ENGINEERING GRADE REFLECTIVE SHEETING.
ALL OTHER SIGNS (POST MOUNTED)	ENGINEERING GRADE REFLECTIVE SHEETING.
OVERHEAD SIGNING (EXCEPT STREET NAME SIGNS)	PRISMATIC LENS REFLECTIVE SHEETING.

TYPICAL SIGN SIZES
STOP SIGNS - 30"x30"
SPEED SIGNS - 24"x30" ON LOCAL STREETS (THE WORD LIMIT SHALL NOT BE USED ON SPEED SIGNS) 30"x36" ON COLLECTOR AND ARTERIAL ROADS.
NO PARKING SIGNS - R7-2A IS STANDARD, WITH A R7-201 12"x6" "TOW AWAY ZONE" 12"x18" ON LOCAL ROADS, 18"x24" ON COLLECTORS AND ABOVE, WHEN ARROWS ARE USED, SIGNS AT BOTH ENDS OF THE ZONE SHALL HAVE SINGLE ARROWS POINTING IN THE APPROPRIATE DIRECTION WITH DOUBLE ARROWS IN BETWEEN.

GENERAL SIGNING NOTES:

1) CONTRACTOR SHALL SUPPLY AND INSTALL ALL SIGNS, AND IS RESPONSIBLE FOR STAKING SIGN LOCATIONS AND OBTAINING UTILITY LOCATES FOR STAKED SIGN LOCATIONS. SIGNS SHALL BE LOCATED PER TYPICAL SIGN LOCATION OR AS SHOWN ON PLANS. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE FINAL STREET NAMES WITH THE CITY OF WOODBURN BEFORE ORDERING AND INSTALLING STREET NAME SIGNS.

2) ALL SIGNING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE COUNTY'S PERMANENT SIGNING LEGEND.

3) STREET NAME SIGNS SHALL BE: (VERIFY FINAL STREET NAMES BEFORE ORDERING AND INSTALLING)

A) FOR LOCAL AND COLLECTOR STREET INTERSECTIONS: SIX (6) INCH 0.080 INCH FLAT BLADE ALULMINUM BLANKS, MOUNTED ON TOP OF POST WITH SPECIAL BRACKETS.

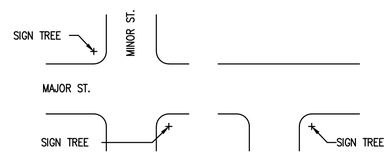
LETTERING: FOUR (4) INCH UPPER CASE SERIES C PRE-FIXES AND SUFFIXES: THREE (3) INCH UPPERCASE SERIES C SUPERSCRIPT FOR NUMERICAL STREET NAMES: TWO (2) INCH UPPERCASE SERIES C LAYOUT PER "TYPICAL STREET NAME SIGN LAYOUT" TWO (2) SIDED

FOR ARTERIAL STREET INTERSECTIONS: B) NINE (9) INCH 0.080 INCH FLAT BLADE ALUMINUM BLANKS, MOUNTED DIRECTLY TO POST WITH RIVETS

LETTERING: SIX (6) INCH UPPER CASE SERIES C PRE-FIXES AND SUFFIXES: FOUR (4) INCH UPPERCASE SERIES C SUPERSCRIPT FOR NUMERICAL STREET NAMES: THREE (3) INCH UPPERCASE SERIES C LAYOUT PER "TYPICAL STREET NAME SIGN LAYOUT" ONE (1) SIDED, TWO (2) SIGNS PER STREET NAME.

TWELVE (12) INCH 0.125 MM FLAT BLADE FOR SIGNALIZED INTERSECTIONS: C) ALUMINUM BLANKS, MOUNTED TO MAST ARM OR STRAIN POLE FOR SPAN WIRE SIGNAL SYSTEMS.

LETTERING: EIGHT (8) INCH UPPER CASE SERIES C PRE-FIXES AND SUFFIXES: FIVE (5) INCH UPPERCASE SERIES C SUPERSCRIPT FOR NUMERICAL STREET NAMES: FOUR (4) INCH UPPERCASE SERIES C LAYOUT PER "TYPICAL STREET NAME SIGN LAYOUT" ONE (1) SIDED %%UWITH BORDER



TYPICAL SIGN LOCATIONS

NTS

MATERIAL FOR ALL STREET NAME SIGNS PER "SIGNING MATERIALS"

WIDTH OF SIGN PER BELOW TABLES FOR SIX (6) AND NINE (9) INCH BLANKS.

SUFFIXES ABBREVIATIONS PER: "COMMON ABBREVIATIONS"

6 INCH BLANKS (TWO SIDED)

# OF CHARACTERS (NOT INCLUD. PREFIXES AND SUFFIXES)	BLANK WIDTH
UP TO 6	24 INCH
7 TO 9	30 INCH
10 TO 11	36 INCH
12 TO 13	42 INCH
OVER 13	48 INCH

9 INCH BLANKS (ONE SIDED)

# OF CHARACTERS (NOT INCLUD. PREFIXES AND SUFFIXES)	BLANK WIDTH
UP TO 6	38 INCH
7 TO 9	48 INCH
10 TO 11	55 INCH
12 TO 13	61 INCH
14 TO 15	68 INCH

FOR MAST ARM STREET NAME SIGN LETTER SPACING USE ODOT'S STANDARDS

COMMON ABBREVIATIONS

AVE = AVENUE	LN = LANE	RD = ROAD
BLVD= BOULEVARD	LP = LOOP	ST = STREET
CIR = CIRCLE	PKWY = PARKWAY	TER = TERRACE
CT = COURT	PL = PLACE	WAY = WAY
DR = DRIVE		

4) POSTS

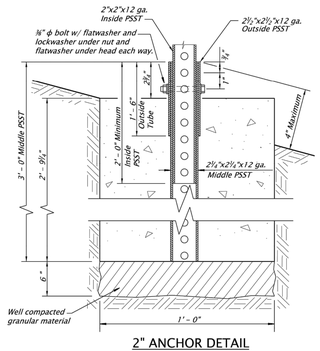
A MINIMUM OF 2 X 2 INCH X 10 FOOT GALVANIZED "UNISTRUT TELESPAR" OR 12 GAUGE PERFORATED POSTS OR APPROVED EQUIVALENT SHALL BE USED.

A 2 X 2 INCH X 12 FOOT (MIN.) 12 GAUGE GALVANIZED "UNISTRUT TELESPAR" OR 12 GAUGE PERFORATED POSTS OR APPROVED EQUIVALENT SHALL BE USED WHEN A COMBINATION OF SIGNS IS MORE THAN 36 INCHES IN HEIGHT.

SIGN POSTS AND ANCHORS SHALL BE INSTALLED PER "TYPICAL SIGN INSTALLATION"

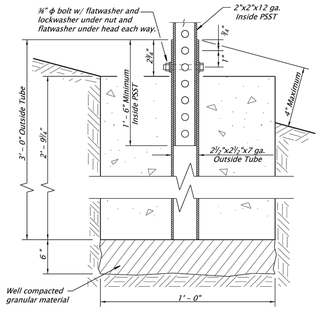
NO OTHER TYPE OF POST SHALL BE USED UNLESS PRIOR APPROVAL OF THE COUNTY TRAFFIC ENGINEER IS OBTAINED.

tm687.dgn 10-JUL-2017



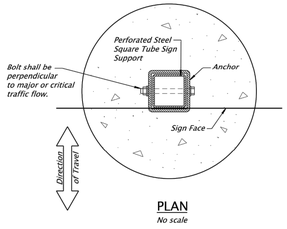
2" ANCHOR DETAIL

No scale



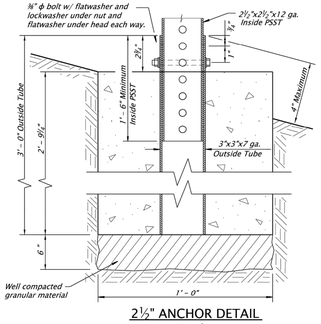
2" OPTIONAL ANCHOR DETAIL

No scale



PLAN

No scale



2½" ANCHOR DETAIL

No scale

General Notes:

1. *Material grade for base hardware connection shall be according to the manufacturer's recommendation and based on crash testing.*
2. *Anchor steel shall be hot dipped galvanized or approved equal.*
3. *Footing concrete shall be Commercial Grade Concrete (fc = 3000 psi) per Specification 00440. The CGC mixture may be accepted at the site of placement according to 00440.14.*
4. *The estimated concrete volume is .09 cubic yards.*

Accompanied by dwgs. TM681, TM688

CALC. BOOK NO. _ _ 5752 _ _ _ _

BASELINE REPORT DATE _ _ _ 06-JAN-2012 _ _ _

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

PERFORATED STEEL SQUARE TUBE (PSST) ANCHOR FOUNDATION

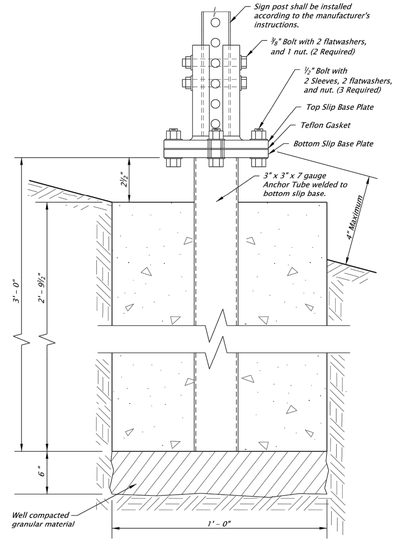
2018

DATE	REVISION DESCRIPTION

Effective Date: June 1, 2020 - November 30, 2020

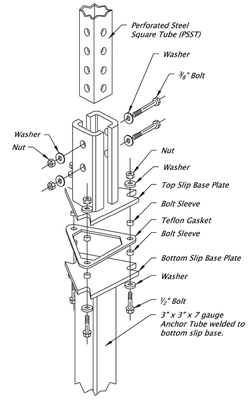
TM687

tm688.dgn 10-JUL-2017



SLIP BASE ELEVATION

No scale

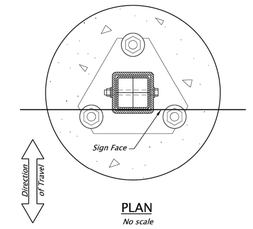


SLIP BASE EXPLODED VIEW

No scale

General Notes:

1. *Material grade for base hardware connection shall be according to the manufacturer's recommendation and based on crash testing.*
2. *Slip base steel shall be hot dipped galvanized or approved equal.*
3. *Footing concrete shall be Commercial Grade Concrete (fc = 3000 psi) per Specification 00440. The CGC mixture may be accepted at the site of placement according to 00440.14.*
4. *Material grade for base hardware connection shall be according to the manufacturer's recommendation and based on crash testing.*
5. *All slip bases shall be pre-assembled by the manufacturer and shall be installed according to the manufacturer's instructions.*
6. *Use slip bases listed on the ODOT Qualified products list or submit crash testing data, installation instructions, and unstamped working drawings according to 00150.35.*
7. *Slip base details shown are not for a specific manufacturer and are only shown to convey general pieces of a slip base system. Specific slip base material will be accoording to the manufacturer's documentation.*



PLAN

No scale

Accompanied by dwgs. TM681, TM687

CALC. BOOK NO. _ _ 5752 _ _ _ _

BASELINE REPORT DATE _ _ _ 06-JAN-2012 _ _ _

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

PERFORATED STEEL SQUARE TUBE (PSST) SLIP BASE FOUNDATION

2018

DATE	REVISION DESCRIPTION

Effective Date: June 1, 2020 - November 30, 2020

TM688

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

STREET SIGNAGE DETAILS

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

EMERIO Design
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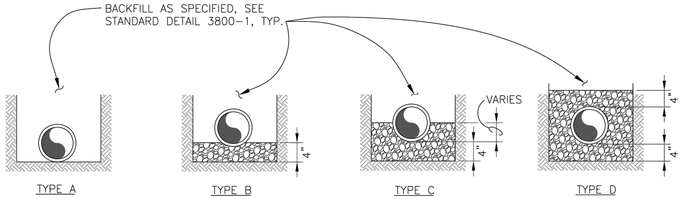
REGISTERED PROFESSIONAL ENGINEER
84283
OREGON
MAY 13, 2010
ROY W. HAWKINS
EXPIRES: 6/30/2021

SHEET 27 OF 32

FILE P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_27sgn02.dwg Layout: 27 STREET SIGNAGE DETAILS Plot Date: 9/10/2020 4:48 PM by: Keelon Smith



TYPE A – PLACE PIPE BARREL ON UNDISTURBED EARTH.

TYPE B – SUPPORT PIPE ON 4" OF COMPACTED 1"–MINUS CRUSHED AGGREGATE.

TYPE C – PIPE BEDDED WITH 1"–MINUS CRUSHED AGGREGATE FROM 4" BELOW INVERT TO SPRING LINE.

TYPE D – PIPE BEDDED WITH 1"–MINUS CRUSHED AGGREGATE FROM 4" BELOW INVERT TO 4" ABOVE ZENITH.

LEGEND

UNDISTURBED NATIVE SOIL

1"–MINUS CRUSHED AGGREGATE, COMPACTED 95 PCT. OF AASHTO T–99

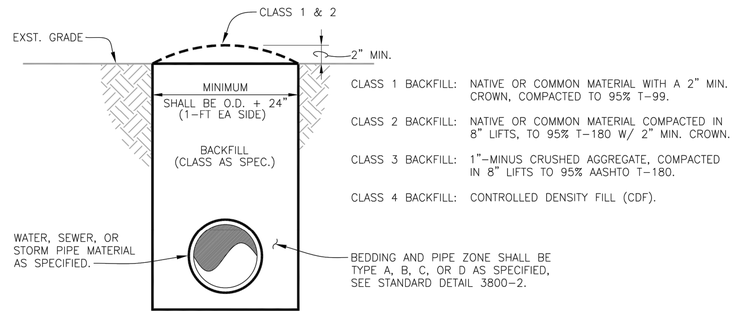
NOTES:

1. REFERENCE TECHNICAL SPEC. SECTION 3800.

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

PIPE TRENCH BEDDING AND ZONE

REV: DEC. 2007
SCALE: NTS
DET No. 3800-2



CLASS 1 BACKFILL: NATIVE OR COMMON MATERIAL WITH A 2" MIN. CROWN, COMPACTED TO 95% T–99.

CLASS 2 BACKFILL: NATIVE OR COMMON MATERIAL COMPACTED IN 8" LIFTS, TO 95% T–180 W/ 2" MIN. CROWN.

CLASS 3 BACKFILL: 1"–MINUS CRUSHED AGGREGATE, COMPACTED IN 8" LIFTS TO 95% AASHTO T–180.

CLASS 4 BACKFILL: CONTROLLED DENSITY FILL (CDF).

BEDDING AND PIPE ZONE SHALL BE TYPE A, B, C, OR D AS SPECIFIED, SEE STANDARD DETAIL 3800–2.

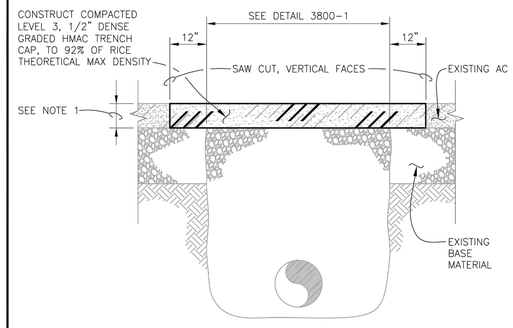
NOTES:

1. ENGINEER WILL CONSIDER ADJUSTING USUAL TRENCH WIDTH TO ACCOMMODATE CONDITION ENCOUNTERED.
2. REFERENCE TECHNICAL SPEC. SECTION 3800.
3. FOR HMA TRENCH CAP SURFACE REPLACEMENT SEE DETAIL 3800–5.

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

PIPE TRENCH BACKFILL

REV: DEC. 2007
SCALE: NTS
DET No. 3800-1



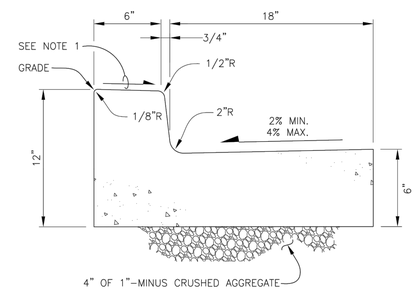
NOTES:

1. REPLACEMENT OF HMA SHALL MATCH EXST. DEPTH UNLESS OTHERWISE SPECIFIED. IN NO CASE SHALL THICKNESS BE LESS THAN THAT SHOWN ON STANDARD DETAIL 4200–1.
2. REFERENCE TECHNICAL SPEC. SECTION 2400, 4200 AND 4220.

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TRENCH CAP

REV: DEC. 2016
SCALE: NTS
DET No. 3800-5



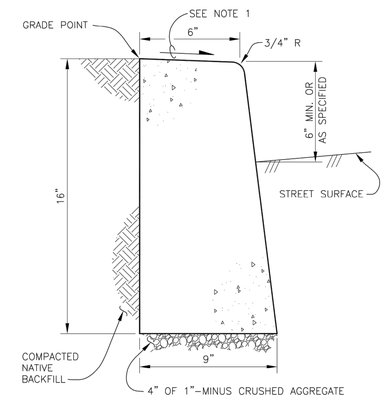
NOTES:

1. SLOPE CURB 0.02 FT/FT TO CURB FACE.
2. MATERIAL – 3500 PSI CONCRETE AT 28 DAYS.
3. REFERENCE TECHNICAL SPEC. SECTIONS 2000, 2300 AND 4100.
4. PLACE CONTRACTION JOINTS AT 15' MAX. INTERVALS AND SHALL EXTEND AT LEAST 50% THROUGH CURB.

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TYPE 'A' CURB AND GUTTER

REV: DEC. 2007
SCALE: NTS
DET No. 4100-1



NOTES:

1. SLOPE CURB 0.02 FT/FT TO CURB FACE.
2. MATERIAL – 3500 PSI CONCRETE AT 28 DAYS.
3. REFERENCE TECHNICAL SPEC. SECTIONS 2000, 2300 AND 4100.
4. PLACE CONTRACTION JOINTS AT 15' MAX. INTERVALS AND SHALL EXTEND AT LEAST 50% THROUGH CURB.

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TYPE 'C' CURB

REV: DEC. 2007
SCALE: NTS
DET No. 4100-2

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

CONSTRUCTION DETAILS

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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REGISTERED PROFESSIONAL ENGINEER
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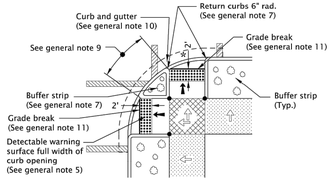
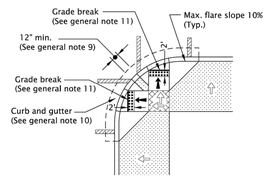
OREGON
JULY 13, 2010
ROY W. HANKINS
EXPIRES: 6/30/2021

SHEET 28 OF 32

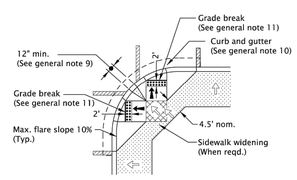
FILE P:\471-001 Smith Creek–Feasibility\dwg\civil\Phase 3B\471-001_2801101_Layout - 28 CONSTRUCTION DETAILS, Plot Date: 9/10/2020 4:48 PM, by: Keelon Smith



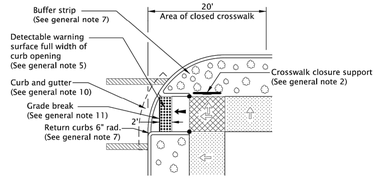
CURB RAMPS WITH LANDSCAPED BUFFER STRIP



CURB RAMPS FOR WIDE SIDEWALKS

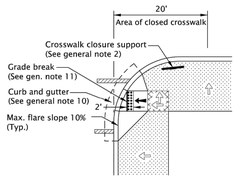


CURB RAMPS FOR NARROW SIDEWALKS



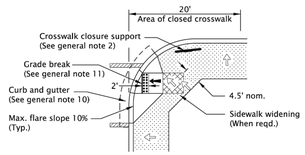
CURB RAMPS WITH CROSSWALK CLOSURE

OPTION "A"



CURB RAMPS WITH CROSSWALK CLOSURE

OPTION "B"



CURB RAMPS WITH CROSSWALK CLOSURE

OPTION "C"

LEGEND:

- Marked or intended crossing location
- Sidewalk
- Detectable warning surface
- Turning space
  When not constrained 4.5' x 4.5' (4' x 4' min. finished surface).
  When constrained 4.5' x 5.5' (4' x 5' min. finished surface with longer dimension in direction of pedestrian street crossing).
  For the purposes of this application, a max. 2.0% finished surface slope (for drainage) is considered level.
- Slope 1.5% max. (Max. 2.0% finished surface slope) (Normal sidewalk cross slope)
- Slope 7.5% max. (Max. 8.3% finished surface slope)
- Zero curb exposure

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. Curb ramp details are based on ODOT applicable standards.
2. See project plans for details not shown.
   See Std. Dwgs. RD700 & RD701 for curbs.
   See Std. Dwgs. RD720 & RD721 for sidewalks.
   See Std. Dwgs. TM503 & TM530 for crosswalk marking, widths, etc.
   See Std. Dwg. RD755 for curb ramp details.
   See Std. Dwg. TM240 for crosswalk closure detail.
   See Traffic Standard Drawings for signal pole and pedestrian pedestal details.
3. Tooled dummy joints are required at all curb ramp grade break lines.
4. Curb ramp slopes shown are relative to the true level horizon (Zero bubble).
5. Place detectable warning surface at the back of curb for a minimum depth of 2' at curb ramp that is adjacent to traffic. For details not shown, see Std. Dwgs. RD758 & RD759.
6. Check the gutter flow depth to assure that the design flood does not overtop the back of sidewalk. Place an inlet at upstream side or perform other approved design mitigation.
7. Return curb may be provided in lieu of flared slope only if protected from traverse travel by landscaping. Return curb shall not reduce width of approaching sidewalk.
8. Curb ramps for paths intersecting a roadway should be full width of path, excluding flares. When a curb ramp is used to provide bicycle access from a roadway to a sidewalk, the curb ramp should be 8' wide.
9. When 2 curb ramps are immediately adjacent as in Options B & C, the curb exposure (E) between the adjacent side flares may range between 3" and full design exposure.
10. On or along state highways, curb and gutter is required at curb ramps.
11. Grade breaks at the top and bottom of curb ramp runs shall be perpendicular to the direction of the ramp run. Grade breaks shall not be permitted on the surface of ramp runs and turning spaces. Surface slopes that meet at grade breaks shall be flush.

CALC. BOOK NO. N/A

BASELINE REPORT DATE 13-JAN-2020

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

CURB RAMP LAYOUT OPTIONS SMALL RADII

2018

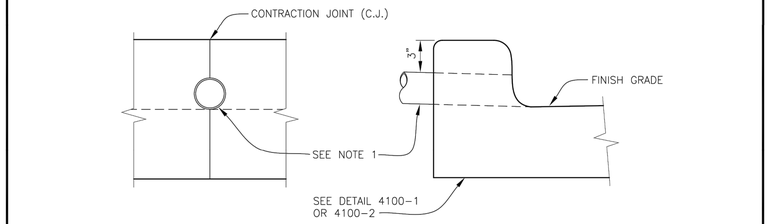
DATE	REVISION DESCRIPTION
01-2018	REVISED DETAILS, REVISED & ADDED NOTES
07-2018	REVISED DETAIL & NOTES
01-2019	ADDED DIAGRAM DETAIL, REVISED DETAILS & NOTES
06-2019	REVISED DETAIL & NOTES
01-2020	REVISED DETAIL & NOTES

RD756

Effective Date: June 1, 2020 - November 30, 2020

RD756

rd756.dgn 13-JAN-2020



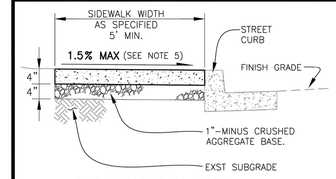
NOTES:

1. 3" PVC SHALL BE SCHEDULE 40.
2. REFERENCE TECHNICAL SPEC. SECTION 4100.

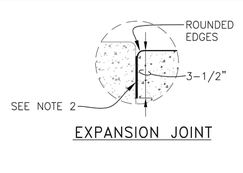
WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

WEEP HOLE

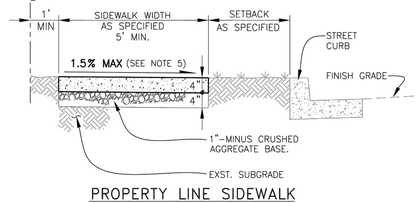
REV: DEC. 2007
SCALE: NTS
DET No. 4100-3



CURBLINE SIDEWALK



EXPANSION JOINT



PROPERTY LINE SIDEWALK

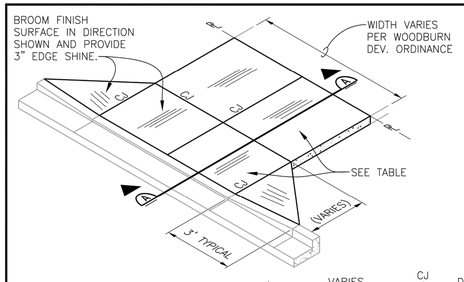
NOTES:

1. MATERIAL - 3500 PSI CONCRETE AT 28 DAYS. BROOM FINISH SURFACE & PROVIDE 3" EDGE SHINE. REFERENCE TECHNICAL SPEC. SECTION 4150.
2. EXPANSION JOINTS (EJ) SHALL BE 1/2" AC IMPREGNATED JOINT FILLER AT ALL DISSIMILAR VERTICAL SURFACES.
3. TRANSVERSE CONSTRUCTION JOINTS (CJ) 1-1/2" DEEP OR 1/3 OF THE THICKNESS (T) @ 5' INTERVALS.
4. FOR SIDEWALK AT DRIVEWAYS SEE DETAILS 4150-3 AND 4150-4.
5. SLOPE 1.5% MAX. MAX 2.0% FINISHED SURFACE SLOPE.

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

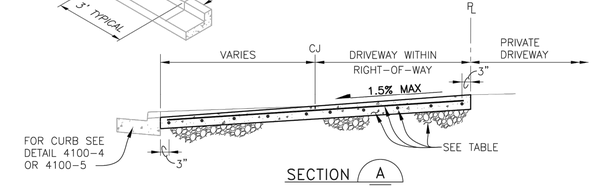
SIDEWALKS

REV: JULY 2018
SCALE: NTS
DET No. 4150-8



CONCRETE/AGGREGATE BASE THICKNESS AND REINFORCEMENT.

USE	CONC.	1"-MINUS CRUSHED AGGREGATE	REBAR
SINGLE FAMILY RESIDENTIAL	6"	4"	NONE
ALL OTHER	8"	6"	No.4 @ 12"O.C. EACH WAY



SECTION A

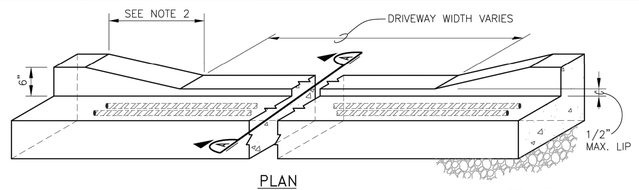
NOTES:

1. REFERENCE TECHNICAL SPEC. SECTION 4150.
2. EXPANSION JOINTS (EJ) SHALL BE 1/2" AC IMPREGNATED JOINT FILLER AT ALL DISSIMILAR VERTICAL SURFACES.
3. MATERIAL - 3500 PSI CONCRETE AT 28 DAYS.

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

DRIVEWAY APPROACH

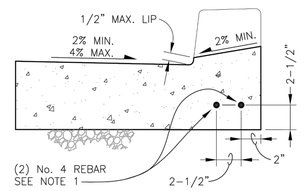
REV: MAY 2019
SCALE: NTS
DET No. 4150-1



PLAN

NOTES:

1. REBAR WILL EXTEND A MIN. OF 2' INTO THE WING AREA.
2. CURBLINE SIDEWALK SEE DETAIL 4150-3 FOR MINIMUM TAPER, FOR PROPERTY LINE SIDEWALK SEE DETAIL 4150-4 FOR MINIMUM TAPER.
3. REFERENCE TECHNICAL SPEC. SECTION 4100 AND DETAIL 4100-1.
4. MATERIAL - 3500 PSI CONCRETE AT 28 DAYS.



SECTION A

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TYPE 'A' CURB AT DRIVEWAY

REV: DEC. 2007
SCALE: NTS
DET No. 4100-4

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

CONSTRUCTION DETAILS

REVISIONS

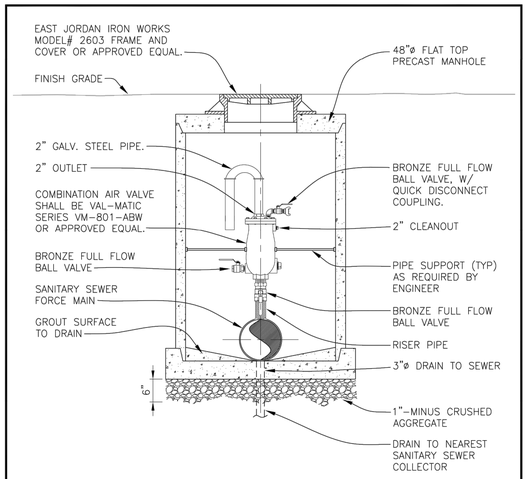
NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

EMERIO Design
2677 WILLAMENDE ROAD, SUITE 1A
EUGENE, OR 97401
TEL: (503) 746-8812
FAX: (503) 746-8813
www.emeriodesign.com

REGISTERED PROFESSIONAL ENGINEER
84283
OREGON
MAY 13, 2015
ROY W. HANKINS
EXPIRES: 6/30/2021

SHEET 29 OF 32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_29sht02, Layout: 29 CONSTRUCTION DETAILS, Plot Date: 9/10/2020 4:48 PM, by: Keelon Smith



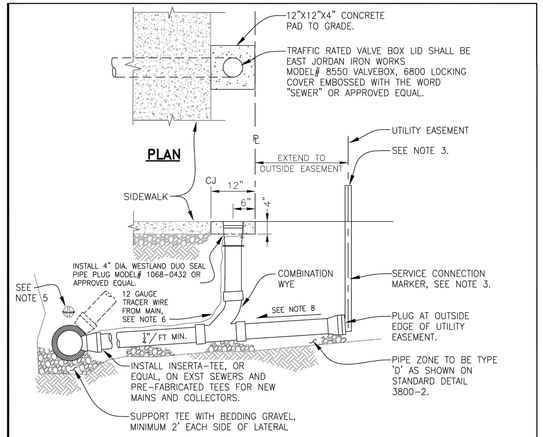
NOTES:

1. COMBO DEVICE FOR SEWER FORCEMAINS SHALL BE 2" DIA. MIN.
2. DEVICES OVER 2" DIA. SHALL BE SADDLE TAPPED.
3. REFERENCE TECHNICAL SPEC. SECTION 6210.
4. GALV. IRON OUTLET PIPE DIAMETER SAME AS VALVE INLET DIAMETER.

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SANITARY SEWER COMBINATION AIR RELEASE VALVE

REV: DEC. 2007
SCALE: NTS
DET No. 6200-6



ELEVATION

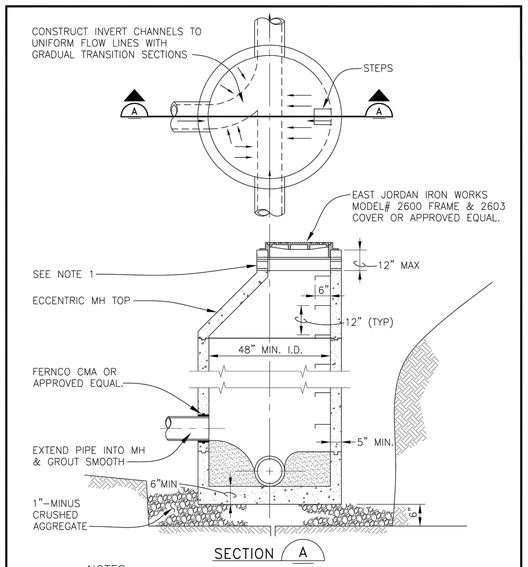
NOTES:

1. PIPE AND FITTINGS SHALL BE COMPATIBLE. ONLY MANUFACTURED FITTINGS SHALL BE USED.
2. MINIMUM DEPTH AT RIGHT-OF-WAY OR EASEMENT LINE SHALL BE 4 FEET.
3. 2 x 4 FIR. POST TO EXTEND 36" MINIMUM ABOVE FINISH GRADE AND EXPOSED AREA SHALL BE PAINTED GREEN.
4. LAY SANITARY SEWER SERVICE TEE AT MAXIMUM 45°, MINIMUM 20° FROM HORIZONTAL.
5. INSTALL LOCATOR/MARKER BALL AT MAIN LINE CONNECTION 3FT MAX BELOW FINISH GRADE. CONTACT ENGINEERING FOR MORE INFORMATION.
6. INSTALL A CONTINUOUS 12-GAUGE TRACER WIRE FROM MAIN. PLACE TRACER WIRE DIRECTLY OVER PIPE CENTERLINE AND ON TOP OF THE PIPE ZONE MATERIAL.
7. REFERENCE TECHNICAL SPEC. SECTION 6200.
8. CONTACT MARION COUNTY PUBLIC WORKS FOR REQUIREMENTS.

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SEWER SERVICE CONNECTION

REV: FEB. 2020
SCALE: NTS
DET No. 6200-3



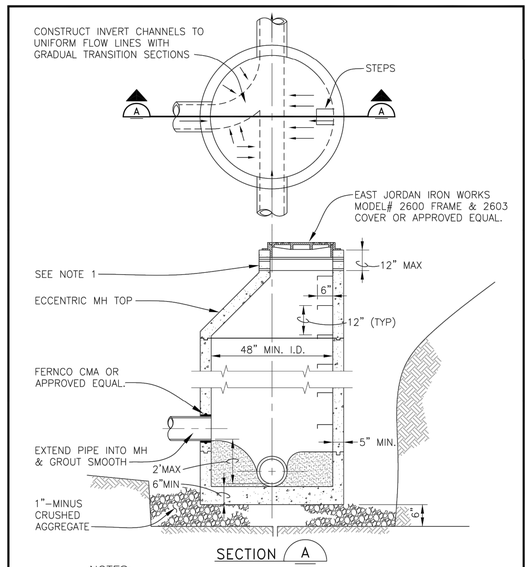
NOTES:

1. MANHOLE JOINTS: CONCRETE EXTENSION RING SHALL BE SEALED WATERTIGHT. REFERENCE TECHNICAL SPEC. SECTION 7500.

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

STORM SEWER MANHOLE

REV: DEC. 2007
SCALE: NTS
DET No. 7500-1



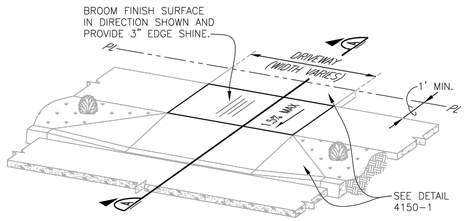
NOTES:

1. MANHOLE JOINTS: CONCRETE EXTENSION RING SHALL BE SEALED WATERTIGHT. REFERENCE TECHNICAL SPEC. SECTION 6510.

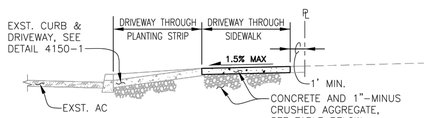
WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SANITARY SEWER MANHOLE

REV: DEC. 2007
SCALE: NTS
DET No. 6510-3



PROPERTY LINE SIDEWALK



SECTION A

NOTES:

1. REFERENCE TECHNICAL SPEC. SECTION 4150.
2. PLACE CONSTRUCTION JOINTS AT 5' INTERVALS 1/3 THICKNESS.
3. MATERIAL – 3500 PSI CONCRETE AT 28 DAYS.

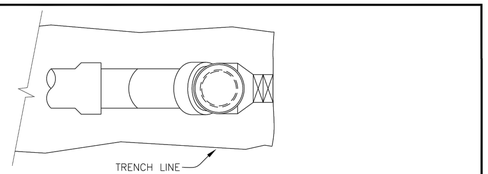
CONCRETE/AGGREGATE BASE THICKNESS AND REINFORCEMENT.

USE	CONC.	1"-MINUS CRUSHED AGGREGATE	REBAR
SINGLE FAMILY RESIDENTIAL	6"	4"	NONE
ALL OTHER	8"	6"	No.4 @ 12"O.C. EACH WAY

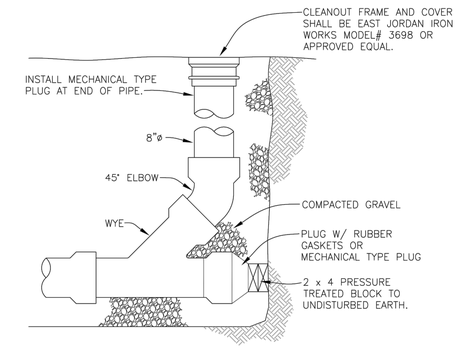
WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

PROPERTY LINE SIDEWALK AT DRIVEWAY

REV: JUNE. 2018
SCALE: NTS
DET No. 4150-4



PLAN VIEW



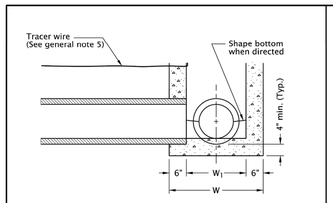
ELEVATION VIEW

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

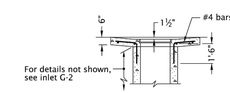
MAIN LINE CLEANOUT

REV: DEC. 2007
SCALE: NTS
DET No. 6200-1

RD364.dgn 21-JUL-2015



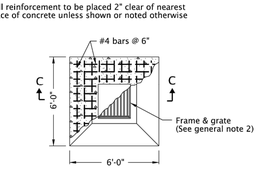
DETAIL A
WITHOUT SUMP



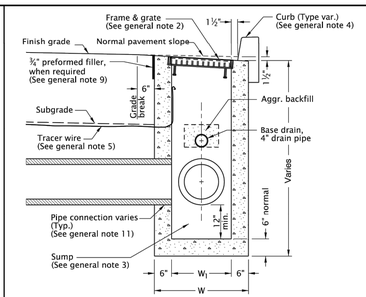
SECTION C-C

NOTE:

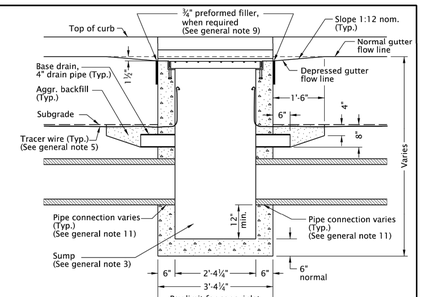
All reinforcement to be placed 2" clear of nearest face of concrete unless shown or noted otherwise



PLAN
TYPE G-2MA

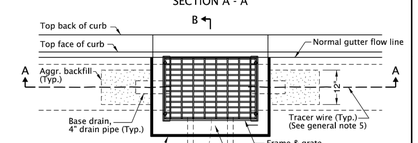


SECTION B - B



SECTION A - A

TABLE A		
INLET TYPE	W	W1
G-1	2'-8⅝"	1'-8⅝"
G-2, G-2M, G-2MA	3'-3⅝"	2'-3⅝"



PLAN
TYPE G-1, G-2, G-2M

GENERAL NOTES FOR ALL DETAILS:

1. Where precast inlets are used as an alternate to cast-in-place inlets, a 4" compacted leveling bed of sand or ¼"-0 crushed aggregate shall be provided. All precast inlets shall conform to requirements of ASTM C913.
2. Graphics show G-1 inlet with Type 2 grate. See Table A for inlet dimensions.
   Type 1 grate allowed only in locations not subject to bicycle or pedestrian use.
   For frame and grate details, see Std. Drg. RD365.
3. Provide sump only where shown on plans, and allowed by jurisdiction. See Detail A for inlet without sump.
4. For curb details, see Std. Drgs. RD700 & RD701.
5. See Std. Drg. RD336 for tracer wire details, or approved alternate.
6. Max. pipe diameter varies with pipe material.
7. Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.
8. All concrete shall be commercial grade concrete.
9. ¾" preformed filler (in concrete pavement or gutter only) to extend through thickness of concrete.
10. See Std. Drg. RD363 for gutter transition section, when curb and gutter are required.
11. See Std. Drg. RD339 for pipe to structure connections.

CALC. BOOK NO. N/A

BASELINE REPORT DATE 21-JUL-2015

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON STANDARD DRAWINGS

CONCRETE INLETS
TYPE G-1, G-2, G-2M, & G-2MA

2015

DATE	REVISION DESCRIPTION
07-2015	REVISED NOTES

Effective Date: June 1, 2017 - November 30, 2017

RD364

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

CONSTRUCTION DETAILS

REVISIONS

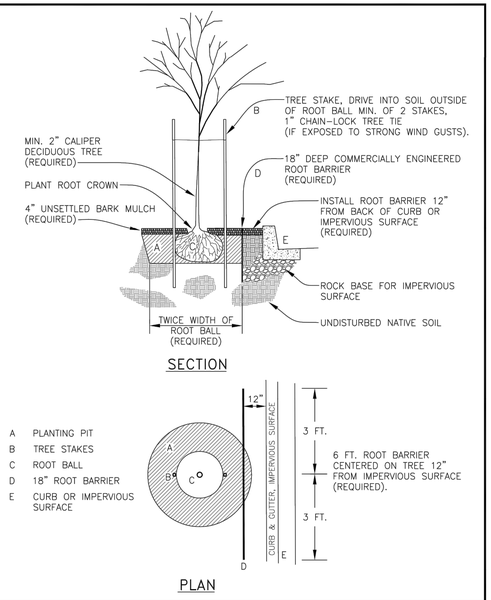
NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

EMERIO Design
2677 WILLAMENZIE ROAD, SUITE 1A
EUGENE, OR 97401
TEL: (503) 746-8812
FAX: (503) 465-6532
www.emeriodesign.com

REGISTERED PROFESSIONAL ENGINEER
84283
OREGON
MAY 13, 2016
ROY W. HANKINS
EXPIRES: 6/30/2021

SHEET 30 OF 32

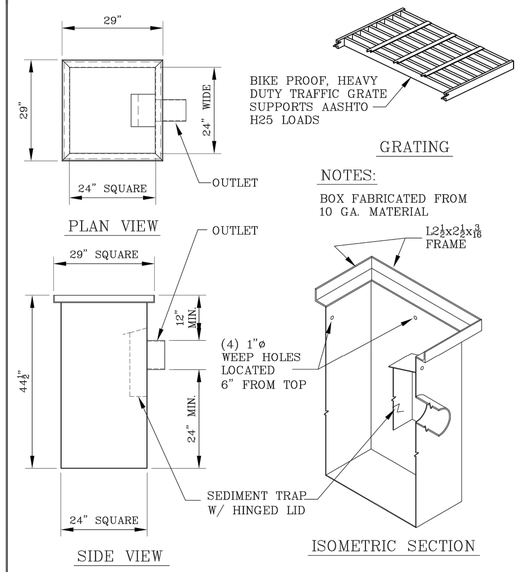
FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_30dtl03_Layout- 30 CONSTRUCTION DETAILS, Plot Date: 9/10/2020 4:48 PM, by: Keelon Smith



WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

STREET TREE PLANTING NEW CONSTRUCTION

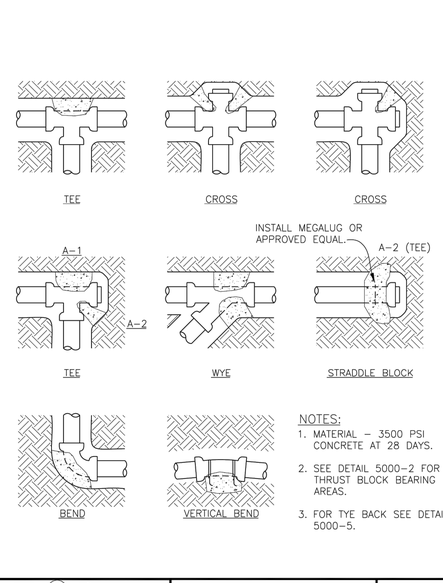
REV: OCT. 2007
SCALE: NTS
DWG No. 1



Gibson Steel Basins SINCE 1972
247 Washington St. Eugene, Or. 97401 ph:(541) 687 – 8672 fax:344-0207

24" SQUARE – 4"ø OR 6"ø OR 8"ø OUTLET
STORM WATER CATCH BASIN
PROJ. MAN. DOUG P. | **DWN.** PAUL G. | **SCALE** NONE
DATE: JAN. 23, 06 | **MODEL:** MPCB10-42HB-4&6&8-4WH

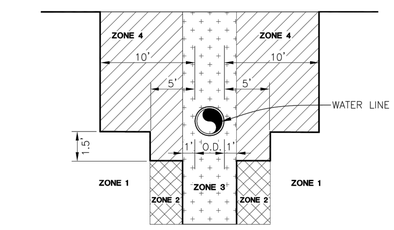
DWG # **T2**



WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

THRUST BLOCKING

REV: DEC. 2007
SCALE: NTS
DET No. 5000-1



ZONE 1
SEWER LINE BE LAID IN THIS AREA WITH NO SPECIAL REQUIREMENTS OF EITHER CONSTRUCTION OR MATERIALS OTHER THAN THOSE SPECIFIED.

ZONE 2
INSTALLING A SEWER LINE IN THIS ZONE IS NOT ADVISABLE AND MUST BE APPROVED IN EACH CASE. WATER LINE SHALL BE LOCATED ON A BENCH OF UNDISTURBED EARTH WHEN CONSTRUCTED CONCURRENTLY IN A COMMON TRENCH WITH A SEWER LINE.

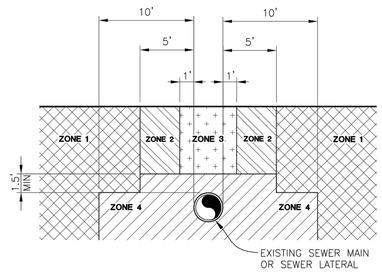
ZONE 3
INSTALLING A SEWER MAIN DIRECTLY OVER A WATER MAIN OR DIRECTLY UNDER A WATER MAIN IN THIS ZONE IS PROHIBITED SINCE TAPPING AND MAINTENANCE OF EACH LINE WOULD BE IMPAIRED.

ZONE 4
SEWER LINE CONSTRUCTION IN THIS ZONE WOULD GENERALLY NOT BE PERMITTED. EACH INSTALLATION MUST BE APPROVED. IF CONSTRUCTION WAS APPROVED PRESSURE PIPE MATERIALS (D.I.) FOR THE SEWER LINE WOULD BE REQUIRED.

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

UTILITY ZONES AROUND WATER LINES

REV: DEC. 2007
SCALE: NTS
DET No. 5000-6



ZONE 1
WATER LINE CAN BE LAID IN THIS AREA WITH NO SPECIAL REQUIREMENTS OF EITHER CONSTRUCTION OR MATERIALS OTHER THAN THOSE SPECIFIED. CROSSING RESTRICTIONS SHALL APPLY.

ZONE 2
INSTALLING A WATER MAIN IN THIS ZONE IS NOT ADVISABLE AND MUST BE APPROVED IN EACH CASE. IF ALLOWED, WATER MAIN SHALL BE LOCATED MINIMUM 1.5' ABOVE ZENITH OF SEWER PIPE.

ZONE 3
WATER MAIN CONSTRUCTION IS NOT PERMITTED.

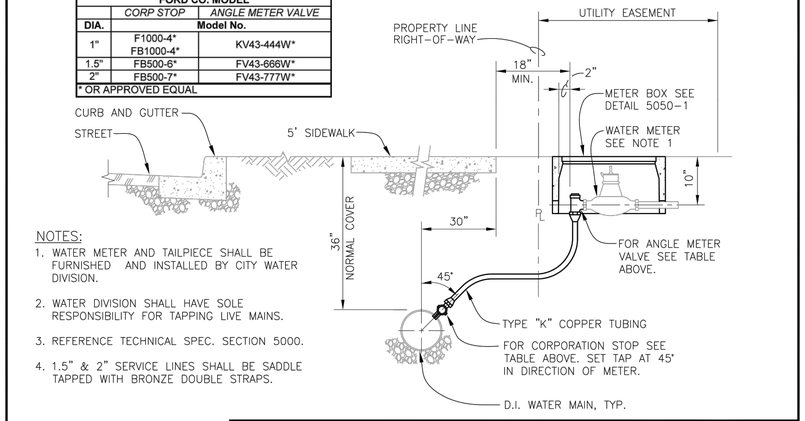
ZONE 4
WATER MAIN CONSTRUCTION IS NOT PERMITTED.

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

UTILITY ZONES AT SEWER LINE

REV: DEC. 2007
SCALE: NTS
DET No. 6200-4

FORD CO. MODEL		
	CORP STOP	*ANGLE METER VALVE*
DIA.	**Model No.**	
1"	F1000-4* FB1000-4*	KV43-444W*
1.5"	FB500-6*	FV43-666W*
2"	FB500-7*	FV43-777W*
* OR APPROVED EQUAL		

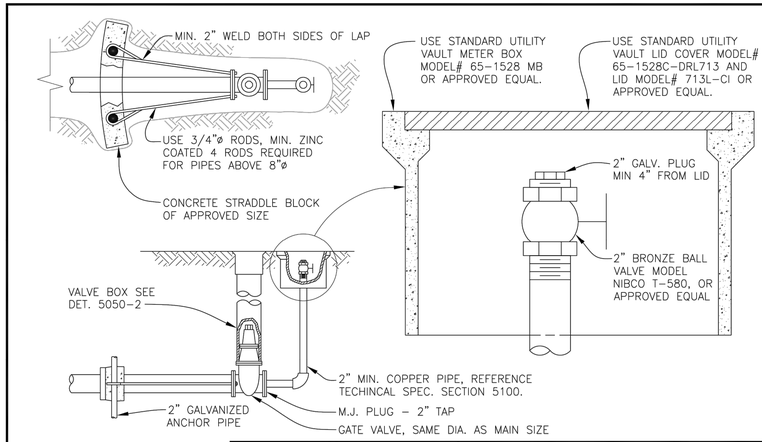


NOTES:
1. WATER METER AND TAILPIECE SHALL BE FURNISHED AND INSTALLED BY CITY WATER DIVISION.
2. WATER DIVISION SHALL HAVE SOLE RESPONSIBILITY FOR TAPPING LIVE MAINS.
3. REFERENCE TECHNICAL SPEC. SECTION 5000.
4. 1.5" & 2" SERVICE LINES SHALL BE SADDLE TAPPED WITH BRONZE DOUBLE STRAPS.

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

WATER SERVICE CONNECTION

REV: MAY 2011
SCALE: NTS
DET No. 5000-4



NOTES:
1. SEE DETAIL 5000-1 AND 5000-2 FOR THRUST BLOCKING.
2. FOR VALVES SEE TECHNICAL SPEC. SECTION 5050.

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

STANDARD BLOWOFF

REV: DEC. 2007
SCALE: NTS
DET No. 5000-5

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

CONSTRUCTION DETAILS

REVISIONS

NO.	DATE	DESCRIPTION
0	04/2020	1ST SUBMITTAL
1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

EMERIO Design
2677 WILLAMENZIE ROAD, SUITE 1A
EUGENE, OR 97401
TEL: (503) 746-8812
FAX: (503) 746-8813
www.emeriodesign.com

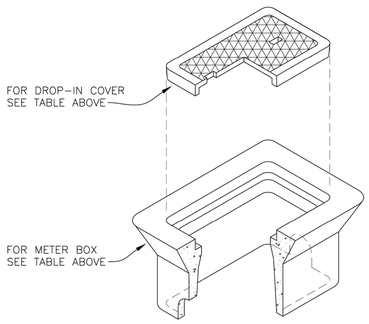
REGISTERED PROFESSIONAL ENGINEER
84283
OREGON
JULY 13, 2010
ROY W. HAWKINS
EXPIRES: 6/30/2021

SHEET 31 OF 32

FILE P: \471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_31civil04_Layout- 31 CONSTRUCTION DETAILS, Plot Date: 9/10/2020 4:48 PM, by: Keelon Smith

BROOKS PRODUCTS		
	COVER	METER BOX
DIA.	MODEL NO.	
1"	No. 37-T CAST IRON COVER*	No. 37 MB-BODY*
2"	No. 65-TF STEEL COVER (FLUSH)*	No. 65 MB-BODY*

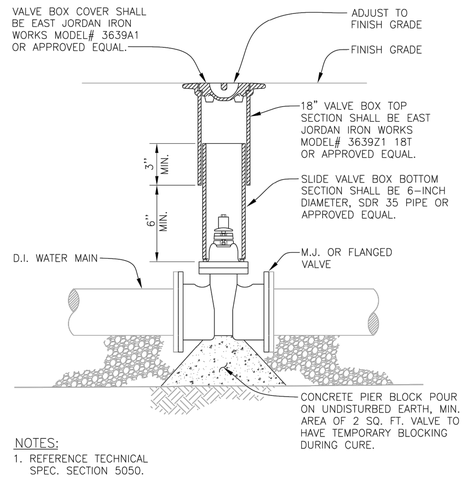
* OR APPROVED EQUAL



WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

METER BOX

REV: FEB 2020
SCALE: NTS
DET No. 5050-1

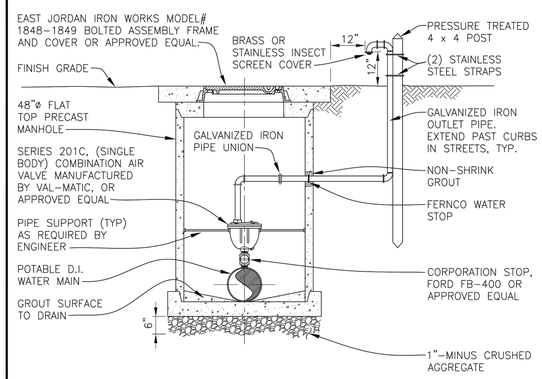


NOTES:
1. REFERENCE TECHNICAL SPEC. SECTION 5050.

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

VALVE ASSEMBLY

REV: FEB. 2020
SCALE: NTS
DET No. 5050-2



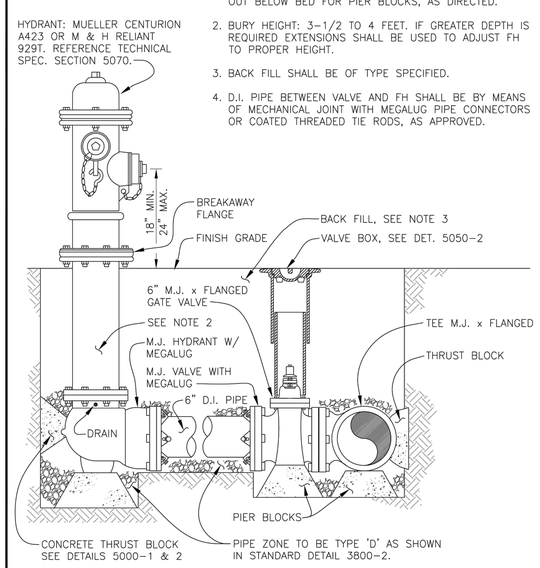
NOTES:
1. FOR WATER MAINS UP TO 12" DIA. USE 1-INCH COMBO AIR VALVE.
2. FOR WATER MAINS OVER 12" DIA. SIZE SHALL BE APPROVED BY ENGINEER.
3. VALVES: REFERENCE TECHNICAL SPEC. SECTION 5050.
4. GALVANIZED IRON PIPE OUTLET DIA. SAME SIZE AS VALVE INLET DIA.
5. LOCATION AND SIZE OF VALVES SHALL BE BY DESIGN OF THE ENGINEER.
6. CORPORATION STOPS OVER 1" DIA. SHALL BE SADDLE TAPPED.

WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

WATER MAIN COMBINATION AIR RELEASE VALVE

REV: DEC. 2007
SCALE: NTS
DET No. 5050-3

NOTES:
1. BED PIPE WITH 1"-MINUS SO AS TO CARRY LOAD OF PIPE EVENLY WITHOUT FIXING LOAD ON PIER BLOCKS DIG OUT BELOW BED FOR PIER BLOCKS, AS DIRECTED.
2. BURY HEIGHT: 3-1/2 TO 4 FEET. IF GREATER DEPTH IS REQUIRED EXTENSIONS SHALL BE USED TO ADJUST FH TO PROPER HEIGHT.
3. BACK FILL SHALL BE OF TYPE SPECIFIED.
4. D.I. PIPE BETWEEN VALVE AND FH SHALL BE BY MEANS OF MECHANICAL JOINT WITH MEGALUG PIPE CONNECTORS OR COATED THREADED TIE RODS, AS APPROVED.



WOODBURN OREGON Incorporated 1889
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

FIRE HYDRANT ASSEMBLY

REV: FEB. 2020
SCALE: NTS
DET No. 5070-1

SMITH CREEK - PHASE 3B
TAX MAP 052W13-TL 100
WOODBURN, OREGON

471-001

CONSTRUCTION DETAILS

REVISIONS

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1	07/2020	2ND SUBMITTAL
2	09/2020	3RD SUBMITTAL

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REGISTERED PROFESSIONAL ENGINEER
84283
OREGON
MAY 13, 2016
ROY W. HANKINS
EXPIRES: 6/30/2021

SHEET 32 OF 32

FILE:P:\471-001 Smith Creek-Feasibility\dwg\civil\Phase 3B\471-001_32dtl05_Layout: 32 CONSTRUCTION DETAILS, Plot Date: 9/10/2020 4:49 PM, by: Keelan Smith