

MARYSVILLE PUBLIC WORKS

PROJECT INFORMATION:

ENGINEERING VARIANCE REQUEST

One variance request form shall be submitted for each section of the Marysville Municipal Code (MMC) or Engineering Design and Development Standards (EDDS) for which variances are being sought. Each variance shall be considered on a case-by-case basis, and shall not be construed as setting precedent for any subsequent applications.

Project Name:	10 Deg	grees			
Project Number:	PA21-0	039			
Request Submittal Date:					
CONTACT INFORMATION:					
Engineer/Surveyor Name:	Jesse .	Jarrell			Professional Stamp
Firm Name:	LDC				
Mailing Address:		142nd Ave NE, nville, WA 98072	<u>)</u>		-
E-Mail Address:	jjarrell@	@ldccorp.com			
Phone Number:	425-28	6-2416			
VARIANCE REQUEST INFORI	MATION	<u>\:</u>			
MMC/EDDS Section:		3-209 Intersect	ions		
\$250 Application Fee Subm	itted:	☐ Yes		Deferred	
Variance Justification (attach additional pages if needed):					
EDDS requires 150' spacing for road intersections. Due to the project creating very small lots, it is difficult to provide access to all units with roads having greater than 150' spacing since a large portion of the lot accesses shall be from private roads, alleys and/or auto courts. Project has been designed so that any intersection that contains less than 150' spacing have minimal left hand turn queuing issues. Additionally, the majority of lots have duel access to them to help provide secondary access points and also spread out traffic flows through the neighborhood. Refer to intersection spacing analysis memo provided with the 2nd prelim plat review package for additional analysis on proposed intersections (also attached with this variance request).					

(360) 363-8100

Public Works 80 Columbia Avenue Marysville, WA 98270

[See MMC 22G.010.420 for variance decision criteria]



MARYSVILLE PUBLIC WORKS

FINDINGS/DECISION (City Staff Use Only)	
Reviewing Staff Member:	
\$250 Application Fee Submitted:	☐ Yes ☐ Deferred
Decision:	☐ Approve☐ Approve with Conditions☐ Disapprove
Findings/Decision/Conditions:	

(360) 363-8100

Public Works 80 Columbia Avenue Marysville, WA 98270

Signature/Date



Memo

To: City of Marysville

From: Land Development Consultants, LLC

CC:

Date: March 25, 2022

Re: Marysville 10 Degrees (PA 21-039) Intersection Spacing Analysis

Following are the findings in our review of the Marysville 10 degrees project in association with proposed intersection spacing designed at less than 150' and how traffic operations in these areas might be affected. Refer to the summary below for an analysis of how each proposed intersection with less than 150' spacing will function with expected traffic flows from the developed site.

Proposed Traffic Circulation

With the exception of proposed Drive C, access to all proposed lots/units can be accessed by at least 2 different traffic routes throughout the internal road network proposed for the site. As such, any minor traffic operations through the site accessing each lot can be mitigated by future homeowner's using less impactful routes without significantly increasing travel distances. Additionally, the majority of the intersections with less than 150' spacing are primarily limited to alley access roads adjacent to new internal plat road with the individual alley access generally only serving about 100 to 270 ADT worth of trips. Refer to the analysis below for expected traffic operations at each proposed intersection designed with less than 150' spacing.

Road/Drive Aisle Intersections

Ingress and egress in each of the following intersections is forecasted to consist of access to/from 19th Ave NE.

Access to and from Drive A

Though Drive A has less than a 150' spacing from Road F, all traffic to/from Drive A is expected to be limited to the south of Drive A most likely coming off of Road E. In addition, very minimum traffic on Road G or E from Road F is expected resulting in little to no concerns regarding traffic operations adjacent to Drive A connections to Road E and G. Note that the majority of traffic entering the site from 19th Ave NE is expected to enter the site from the most northerly access point proposed off of 19th Ave NE.

Access to and from Drive D

Drive D is current designed with a 132′ intersection spacing from Road B at it's west end and 90.98′ spacing from its east end. Due to the majority of access to Drive D expected to come up Road E, Left turn queuing issues to enter into Drive D is not expected. Additionally, with minimal traffic expected on Road E, left turns to Road E from Drive D are not expected to cause significant traffic issues. Any access to and from Drive D from Road G is expected to be minor and most likely only consist of use by 3 or 4 lots. Note that the majority of traffic entering the site from 19th Ave NE is expected to enter the site from the most northerly access point proposed off of 19th Ave NE.

Road B, D, E and G intersection

Road D is current designed with less than a 150' intersection spacing from Road E and Road D. Though this may be the case, traffic flows and turning near these intersections will be less than typical due to internal plat roads looping through the site as opposed to thru streets that navigate traffic in and out of the development. Cars entering the site from 19th Ave on Road B will either be turning left on to Road E, right on Road D, left on to Road G or continuing straight on Road B. Any left turns on to Road E from Road B will be clearly see from Road D traffic so left turn crossings do not appear to be an issue. There is a potential for left turns onto Road G from Road B that could result in backing up traffic on Road B blocking the Road D intersection but is highly unlikely due to the minimal amount of units being access from Road G. Left turn queuing on Road B traveling west bound is not expected due to there not being much need to turn left onto Road D from Road B. Traffic from Road D, E and G are not expected to frequently turn east onto Road B also limiting traffic issues and concerns.

Access to and from Drive E

Drive E is current designed with less than a 150' spacing from Road G and D. Traffic to Drive E is expected to be right turns into Drive E from Road B and left turns into Drive E from Road H. Right turns into Drive E from Road B are not expected to cause any traffic issues. Left turns into Drive E from Road H could be impacted by cars queuing up on Road H trying to turn on to Road D but is not expected due to the minimal amount of traffic expected to be headed west bound on Road H. Traffic concerns for left turns from Drive E onto Road B are not expected due to a vary low frequency of cars expected to turn right from Road D onto Road B. Additionally, Cars leaving Drive E will be closely aligned with Cars turning right from Road G resulting in clear sight between cars entering roadway. Cars leaving Drive E onto Road H will generally be turning right resulting in little to no traffic concerns near the intersection of Road H and Road D.

Access to and from Drive I

Drive E is current designed with less than a 150' spacing from Road C. The majority of traffic entering onto Drive I from the south end is expected to mainly come from Road C and not Road H. As such, left turns into Drive I are not expected to back up and block left hand turns onto Road C from Road H. Left hand turns from Drive I onto Road H are not expected as it's the longest route to leave the site. No other intersection or left turn concerns are aware of.

Access to and from Drive J

Though Drive J has less than a 150' spacing from Road I, all traffic to/from Drive J is expected to be limited coming/going west of Drive J off of Road B and H. Left turns into Drive J from Road H and left turns from Drive J to Road B are not expected to cause traffic issues since turns onto Road H from Road I will be very limited an infrequent. Any right turns into and out of Drive J are not expected to cause any issues with surrounding streets.

Access to and from Drive L

Drive L is current designed with less than a 150' spacing from Road H. The majority of traffic entering onto Drive L is expected to be left turns from Road C, right turns from Road D and left turns from Road D. Left turns into Drive L and not expected to be an issue due to the limited amount of traffic that will be turning onto Road C from Road H. Left turns onto Drive L from Road D could potentially back up traffic on Road D blocking the Road D/H intersection but is not likely to be very frequent due to the minimal amount of traffic using Drive L and dual access being available for Drive L. Cars exiting from Drive L are expected to turn left and right onto Road D and primarily turn right onto Road C. Cars turning right on to Road C do not appear to be an issue due to limited traffic expected from Road H turning onto Road C. Cars turning right onto Road D could potentially affect cars turning left from Road H but it is not expected to be very frequent. Additionally, Road H and Drive L are expected to more of controlled intersections so Cars leaving Road H or Drive L entering onto Road D are expected to be slow moving. Cars turning left on to Road D from Drive L do not appear to have any negative impact on surrounding traffic or intersections.

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Access to and from Drive O

Drive O is located slightly less than 150' from Road D and only provides access to 3 units. Due to the minimum number of units and a high likelihood of Cars more turning left down Road D and right onto Drive O, as opposed to turning left onto Drive O from Road C, intersection spacing and traffic operations adjacent to the Drive O/Road C intersection is not expected.

Access to and from Drive P

Drive P is located less than 150′ from Road D. Traffic to and from Drive P is mainly expected to mainly be from the Southerly site entrance off of 19th Ave. As such, access onto Drive P is expected to mainly be right turns from Road C. Traffic leaving Drive P is mainly expected to turn left onto Road C. Left turns from Drive P are not expected to impact right turns from Road D onto Road C due to limited traffic from Drive L and clear sight distance being available from both cars entering on to Road C from Road D and Drive P. No other intersection or left turn concerns are aware of.

Summary

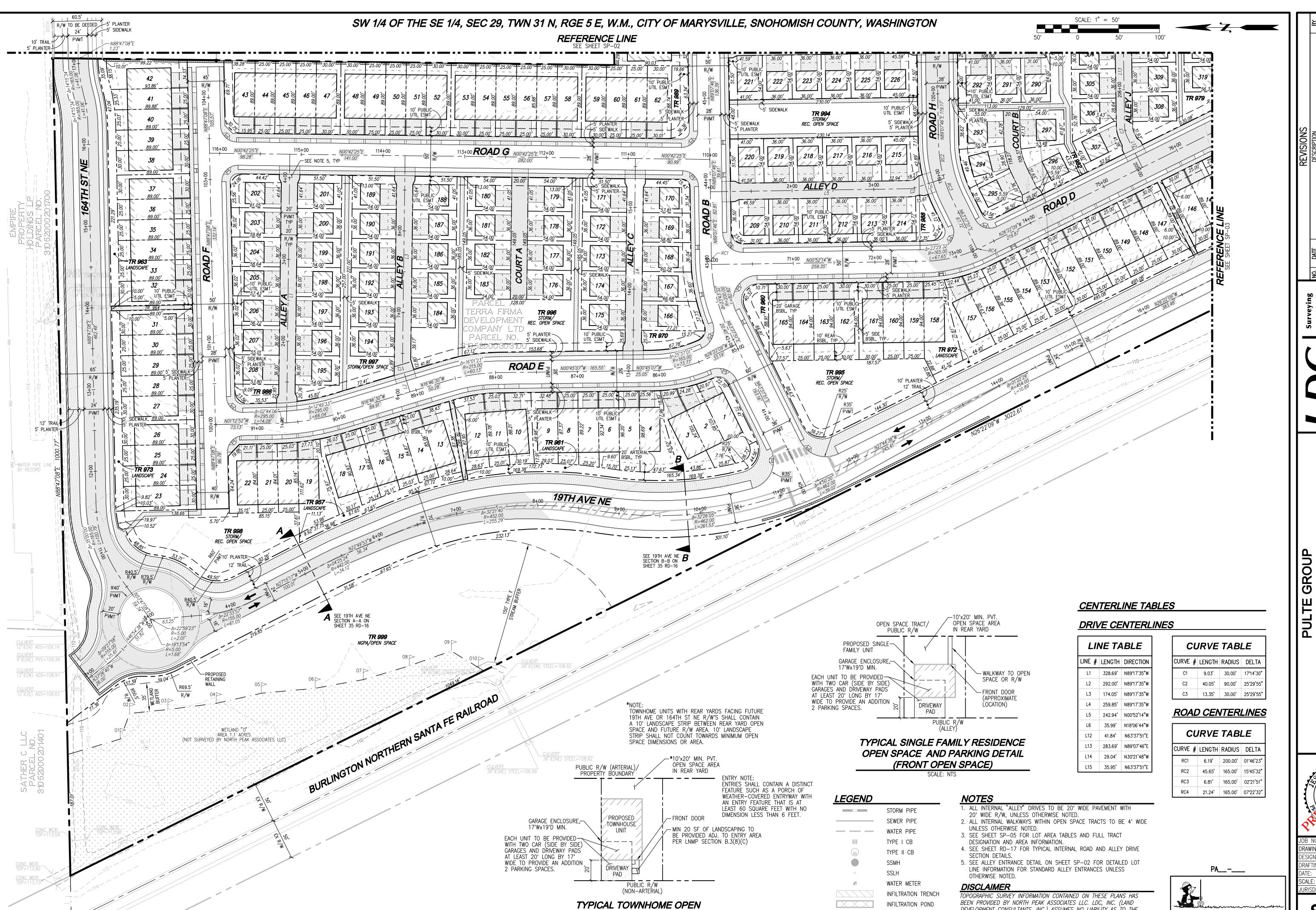
Though some designed intersections for the project result in less than 150' spacing to other intersections, we do not believe they are of a great concern to future traffic operations due to the minimal amount of traffic being expected near most of these intersections along with the fact that generally there are at least two different and reasonable vehicle paths to each lot more likely resulting in future homeowner's altering their routes to and from their homes based on routes of least resistance. Please use this letter in conjunction with the 1st Preliminary Plat Review Comment Response letter. Let me know if there's any questions regarding this analysis.

Sincerely,

LDC, Inc.

Jesse Jarrell

Jesse Jarrell, PE Project Manager HO Office



SPACE AND PARKING DETAIL

SCALE: NTS

INFILTRATION POND

ASPHALT PAVEMENT

CONCRETE SIDEWALK

DEVELOPMENT CONSULTANTS, INC.) ASSUMES NO LIABILITY AS TO THE

BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT IS NOTED IN THE

FIELD SHOULD BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE

ACCURACY AND COMPLETENESS OF THIS DATA. ANY DISCREPANCIES FOUND

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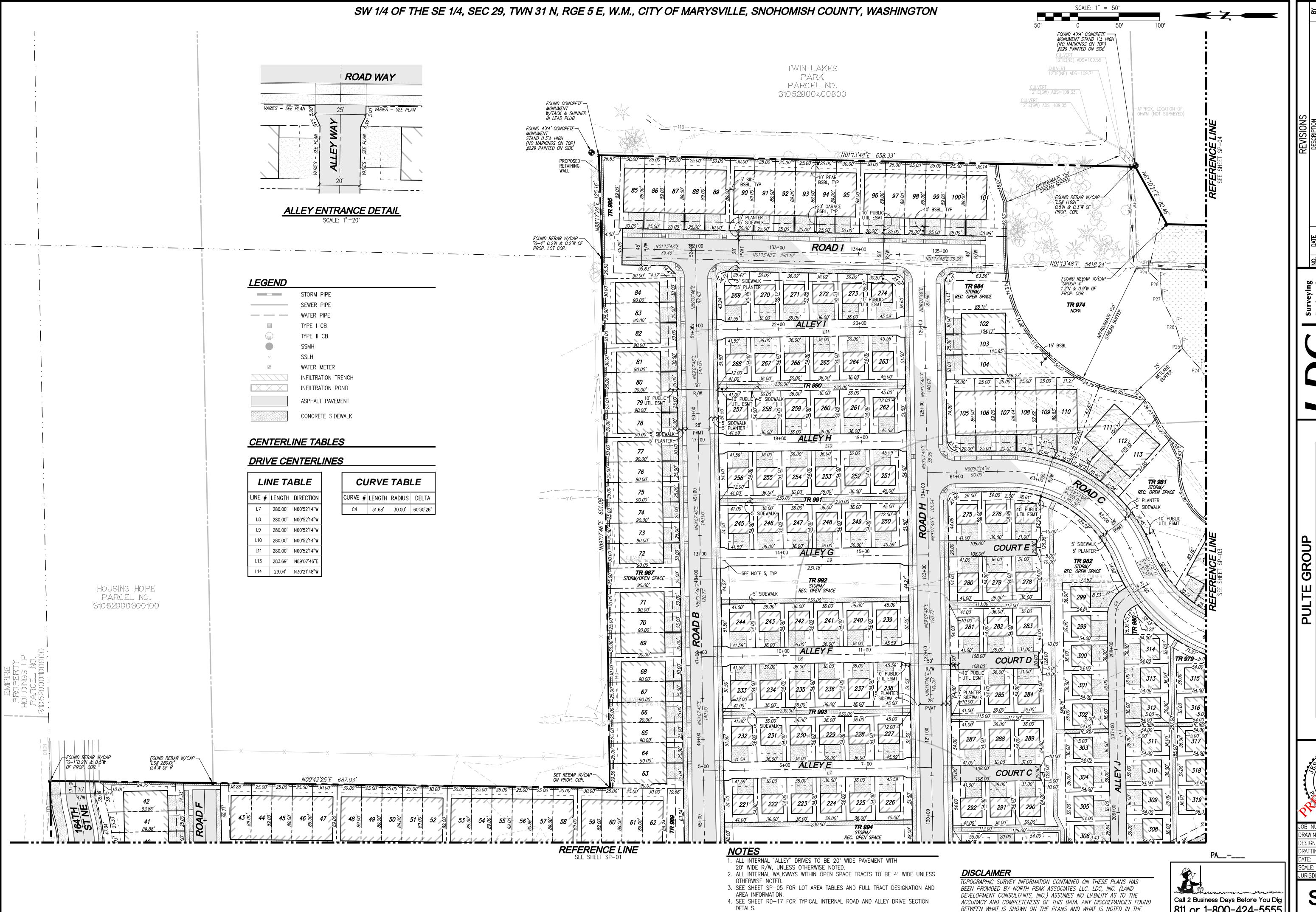
	OZONAL BI
	JOB NUMBER: C2
	DRAWING NAME: C21150P-S
	DESIGNER:
_	DRAFTING BY:
	DATE: 8-1
	SCALE: 1"

Call 2 Business Days Before You Dig

811 or 1-800-424-5555

Utilities Underground Location Center

URISDICTION: MARYSVIL **SP-01**



5. SEE ALLEY ENTRANCE DETAIL ON THIS SHEET FOR DETAILED LOT LINE

INFORMATION FOR STANDARD ALLEY ENTRANCES UNLESS OTHERWISE NOTED.

FIELD SHOULD BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE

SVILLE 10 DEGREE

A. JA.

GOSTO OF WASH

45844

CISTERED CIME

JOB NUMBER: C211

DRAWING NAME: C21150P-SP
DESIGNER: M

DRAFTING BY: R:

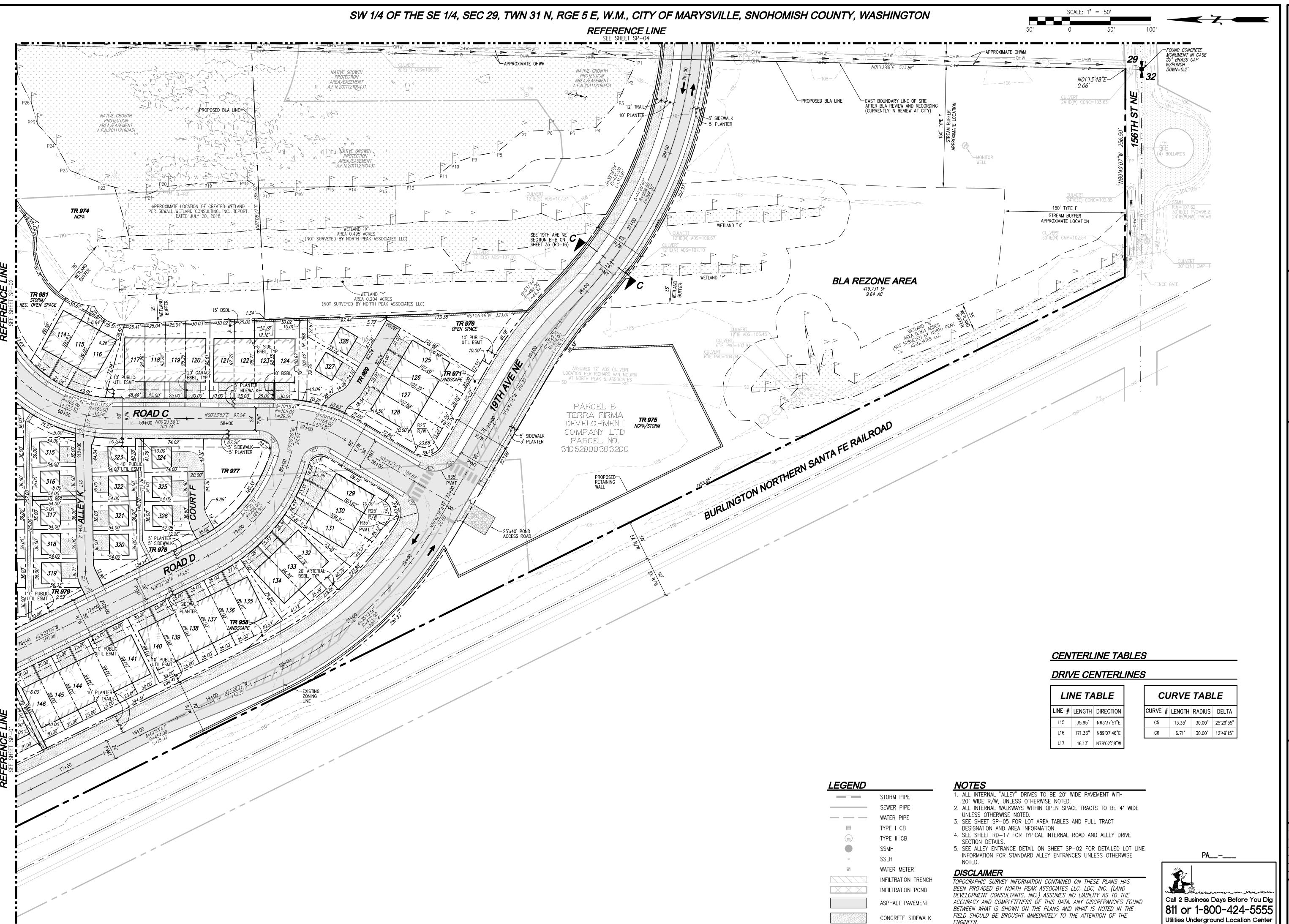
DATE: 8-18
SCALE: 1"=5

JURISDICTION: MARYSVIL

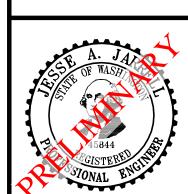
SP-02

811 or 1-800-424-5555
Utilities Underground Location Center

SHEET 8 OF 18



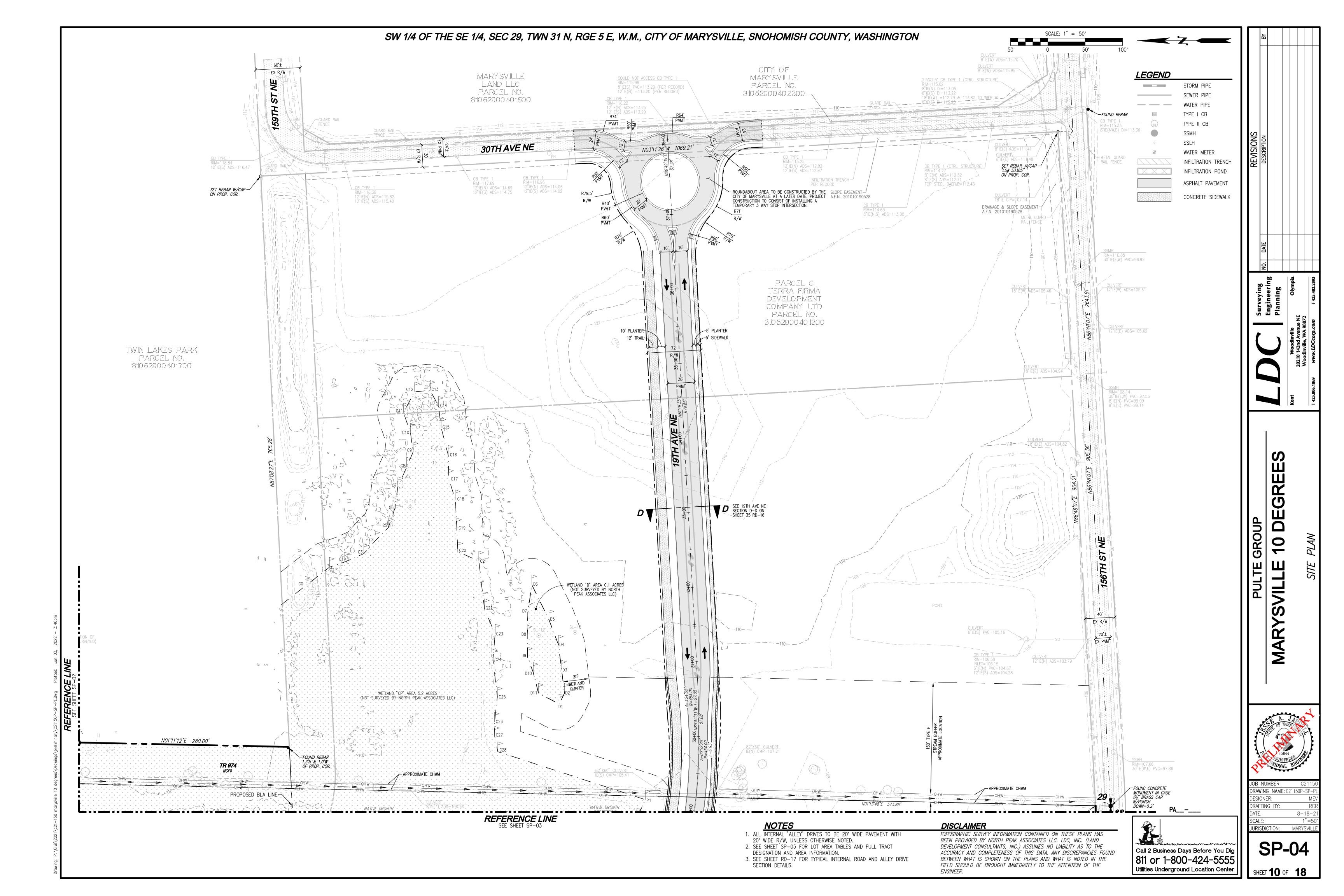
SVILLE 10 DEG



Y	
OB NUMBER:	C21150
RAWING NAME: C	21150P-SP-PL
ESIGNER:	MEV
RAFTING BY:	RCR
ATE:	8-18-21
SCALE:	1"=50'
URISDICTION:	MARYSVILLE

SP-03

SHEET 9 OF 18



SW 1/4 OF THE SE 1/4, SEC 29, TWN 31 N, RGE 5 E, W.M., CITY OF MARYSVILLE, SNOHOMISH COUNTY, WASHINGTON

TRACT AREA TABLE

TRACT NUMBER	TRACT DESIGNATION	TRACT AREA (SF)	*REC. AREA (SF)
999	NGPA/OPEN SPACE	125,191	
998	STORM/REC. OPEN SPACE	13,544	13,544
997	STORM/OPEN SPACE	5,914	
996	STORM/REC. OPEN SPACE	17,615	12,216
995	STORM/REC. OPEN SPACE	12,269	12,269
994	STORM/REC. OPEN SPACE	11,040	11,040
993	OPEN SPACE	2,760	,
992	STORM/REC. OPEN SPACE	10,719	10,756
991	OPEN SPACE	2,760	
990	OPEN SPACE	2,760	
989		1,717	
	OPEN SPACE		
988	OPEN SPACE	1,426	
987	STORM/OPEN SPACE	2,250	
986	OPEN SPACE	1,171	
985	OPEN SPACE	4,688	
984	STORM/OPEN SPACE	3,650	
982	STORM/REC. OPEN SPACE	19,272	6,143
981	STORM/REC. OPEN SPACE	9,442	8,828
980	OPEN SPACE	1,143	
979	OPEN SPACE	5,893	
978	OPEN SPACE	4,338	
977	REC. OPEN SPACE	6,359	6,459
976	OPEN SPACE	6,918	
975	NGPA/STORM	286,918	
974	NGPA	157,030	
973	LANDSCAPE	2,450	
972	LANDSCAPE	3,508	
971	LANDSCAPE	1,473	
970	OPEN SPACE	1,475	
969	ACCESS/UTILITIES	2,661	
968	LANDSCAPE	1,015	
967	ACCESS	270	
966	ACCESS	270	
965	ACCESS	270	
964	ACCESS	594	
963	LANDSCAPE	3,037	
962	ACCESS	586	
961	LANDSCAPE	3,741	
960	OPEN SPACE	1,655	
959	ACCESS	594	
958	LANDSCAPE	5,481	
957	LANDSCAPE	2,140	
TOTAL LANDSCAPE		20,705	
TOTAL OPEN SPACE		298,023	
TOTAL TRACT AREA		748,007	
TOTAL REC OPEN SPACE		·	81,255
	L PACE INCLUDES AREAS V	WITHIN ASSOCIATED	·

^{*}NOTE: REC OPEN SPACE INCLUDES AREAS WITHIN ASSOCIATED OPEN SPACE THAT CONTAIN AT LEAST A 30' DIMENSION.

AUTO COURT AREA TABLE

AUTO COURT NAME	COURT AREA (SF)
COURT A	2,981
COURT B	2,302
COURT C	2,160
COURT D	2,160
COURT E	2,160
COURT F	1,702
TOTAL COURT AREA (SF)	13,465

2,700

2,250

2,700

-	
ΞR	LOT AREA (SF)
	3,531
T	2,679
	3,356
	3,502
	2,439
	2,358
	2,267
	2,205
	2,703
	2,716
	2,228
	2,947
	2,881
	2,123
	2,134
	2,176
	2,240
	2,758
_	3,889
	2,110
	2,100
	2,854
	2,669
	2,225
	2,225
	2,670
	2,670
	2,225
	2,225
	2,225
	2,670
	2,670
	2,225
	2,225
	2,225
	2,225
2	2,670
2	,670
	2,225
	2,230
	2,290
	3,502
	3,194
	2,225
	2,225
	2,225
	2,670
	2,670
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	2,772
	2,250
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2	2,250
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	700
2,7	700
2,2	50
	2,250
	2,700 2,700

2,604

2,267

2,137

DISCLAIMER

166

167

168

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2,411

2,411

1,944

250

251

TOPOGRAPHIC SURVEY INFORMATION CONTAINED ON THESE PLANS HAS
BEEN PROVIDED BY NORTH PEAK ASSOCIATES LLC. LDC, INC. (LAND
DEVELOPMENT CONSULTANTS, INC.) ASSUMES NO LIABILITY AS TO THE
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Call 2 Business Days Before You Dig 811 or 1-800-424-5555 Utilities Underground Location Center

LOT NUMBER | LOT AREA (SF)

1,944 1,944 2,195 2,195 1,944 1,944

1,944 2,411 2,410 1,944 1,944 1,944

2,195

2,154 2,106 2,059

2,011 2,384 2,373

2,126 2,094

1,944 2,214 2,214 1,944 1,994 1,994

2,214 2,214 1,944 1,994 1,994

2,214 2,457 2,146 2,418

2,396 2,345 1,946 1,944

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2,156 2,196 1,944

1,944

1,944

1,944 1,944

1,944

1,944 1,944

1,944 1,971

1,944

1,944

1,944 2,230

3,029 1,944

1,966 3,243 3,867

273

275

278

300

302 303

304

305 306

308 309

310

311 312

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314 315

316 317

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322

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326

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10 DE

DRAWING NAME: C21150P-SP-DESIGNER: DRAFTING BY: JURISDICTION: MARYSVILI

SP-05 SHEET 11 OF 18