**Project:** Harbor Grove – Appellant Letter Response **Location:** 9110 53rd Ave West, Mukilteo, WA

EX. 76

November 13th, 2023

Sea Pac Homes 120 SW Everett Mall Way Suite #100 Everett, WA 98204

Dear Mr. Belew:

The purpose of this document is to methodically address the Appellants alleged project deficiencies using referenced Mukilteo code sections, project plans, similar municipal codes, reports, and application documents as described in a letter dated September 13<sup>th</sup>, 2023 by Mr. David Tyler. Particular attention was given to the alleged deficiencies concerning the City of Mukilteo's approval of the Harbor Grove Project without the need for variances to construct retaining walls within setbacks and the resulting allowable building height once fill has been placed as part of the approved civil infrastructure plans.

#### **Executive Summary**

It is evident that the project:

- 1. Is in conformance with the Mukilteo Municipal Code and SEPA requirements (hereafter collectively referred to as the Code).
- 2. The City of Mukilteo has applied the Code consistently among past projects.
- 3. The Code, as written and applied in practice, aligns with surrounding jurisdiction codes regarding retaining walls within setbacks, and determination of building height.

The following pages address in further detail, how these determinations were made.

Respectfully yours,

Trevor Price CMa, PM

Perkl's Properties, LLC



#### Contents

Executive Summary	1
Alleged Deficiencies: Project Conflicts with Mukilteo Municipal Code	4
Deficiency Argument 1.1: Retaining Walls within Setbacks Require a Variance	4
Rebuttal: Precedent from Previously approved Projects	4
Municipal Code Comparison: Retaining walls in Setbacks without Variance	6
Lake Stevens	6
Everett	7
Bothell	7
Snohomish County	8
Conclusion	9
Deficiency Argument 1.2: Future Homes Building Height would Require Variance	10
Rebuttal: Precedent from Previously approved Projects, other Jurisdictions	10
Municipal Code Comparison: Building Height Calculation Modified Existing Grade during Plat	11
Lake Stevens	11
Everett	12
Bothell	12
Snohomish County	13
Marysville	13
Conclusion	13
Deficiency Argument 1.3: Project is not consistent with Surrounding Land Use and Design	14
Rebuttal: Precedent from Previously approved Projects, MMC	14
Deficiency Argument 1.3: Application does not Include Slope and Vegetation Data	14
Rebuttal: Precedent from Previously approved Projects	15
Alleged Deficiencies: Project Conflicts with SEPA Requirements	16
Alleged Deficiency 2.1: DNS does not Provide Complete description of the Project Proposal	16
Rebuttal: General Information was Provided as Requested	16
Alleged Deficiency 2.2: DNS does not Address Short and Long Term Project Impacts	17
Rebuttal: Professional Engineers and Professional Hydrologists were Hired	17
Alleged Deficiency 2.2: DNS does not Analyze Impacts on the Abutting property Owners	17
Rebuttal: Continuation of Terraces in Place at Ruby Ridge, Significant Building Separation	17



#### **Referenced Project Plans**

City of Lake Stevens – Hewitt	END
ake Stevens - Fairview Terrace	
Aarysville – Havenwood	
лиkilteo - 9055 Hargreaves	
Лukilteo - 9115 Hargreaves	
Лukilteo - Harbor Grove	
Лukilteo - Highland Terrace	
лиkilteo - Mukilteo Highlands	END
nohomish County - DMH Holdings	
nohomish County - Lake Stickney Trails	



#### Alleged Deficiencies: Project Conflicts with Mukilteo Municipal Code

#### Deficiency Argument 1.1: Retaining Walls within Setbacks Require a Variance

Retaining walls are structures by definition and are not allowed within setbacks per definitions in MCC 17.08.020. A variance would be required to construct a retaining wall within the setback area. A variance was not obtained for the Project. Full definitions from the MCC provided below.

"Setback" or "yard requirements" means the required open space distance that buildings, uses or **structures** must be removed from their lot lines.

"Structure" means a combination of materials constructed or erected on the ground or water or attached to something having a location on the ground or water. For the purposes of Chapter 17.17, Wireless Communication Facilities (WCF) Attached and Detached, "structure" is a pole, tower, base station, or other building, whether or not it has an existing antenna facility, that is used or to be used for the provision of personal wireless service (whether on its own or commingled with other types of services).

#### Rebuttal: Precedent from Previously approved Projects

In application, retaining walls have not been considered structures prohibited in setbacks. This interpretation of the code would create a high percentage of unbuildable lots within the City of Mukilteo due to areas of significant slopes. Examples of past projects where retaining walls are in setbacks without a variance are shown below in Figures 1, 2 and 3.



Figure 1: Retaining wall within setback of 10516 60th Ave W neighboring 10524 60th Ave W, Mukilteo





Figure 2: Retaining wall within setback (approximately 15 feet high) of 1804 19th Drive, neighboring 1802 19th Drive, Mukilteo





Figure 3: Retaining wall within front setback of 1801 19th Drive, Mukilteo

#### Municipal Code Comparison: Retaining walls in Setbacks without Variance

Six jurisdictions were reviewed to determine if retaining walls were allowed within setbacks without a variance. It was determined that the City of Mukilteo not requiring a variance to construct a retaining wall aligns with other jurisdictions.

#### Lake Stevens

#### MC 14.52.080 Height

- (a) Retaining walls and rockeries shall be limited to the following heights within setbacks as measured by the International Building Code (IBC):
  - (1) Front setback: three feet.
  - (2) Side and rear setbacks: eight feet. (Ord. 1063, Sec. 2 (Exh. B), 2019)



(b) Walls or rockeries shall not exceed eight feet in height within setbacks or 12 feet in height outside of setbacks. Exception: A wall that is outside of one setback but crossing perpendicular into either a side or rear yard setback may be 12 feet. (Ord. 1063, Sec. 2 (Exh. B), 2019)

#### MC 14.52.110 Wall or Rockery Exceptions.

The Planning and Community Development Director, in consultation with the Public Works Director, may approve a modification to wall or rockery heights if the modification is necessary because of the size, configuration, existing topography or location of the subject property. Modifications are to be processed in accordance with Chapter 14.16C, modifications, and may be approved when the following conditions are met:

- (a) The modification will not be materially detrimental to the public welfare or to abutting properties; and
- (b) The modification will reduce potential adverse impacts to critical areas;
- (c) The modification will retain a greater number of significant trees;
- (d) The modification will permit the installation of transportation improvements; or
- (e) The alternative separation, slope gradient, or height is in the public interest. (Ord. 1063, Sec. 2 (Exh. B), 2019)

#### **Everett**

#### MC 19.06.030 Exceptions to building or structure placement requirements.

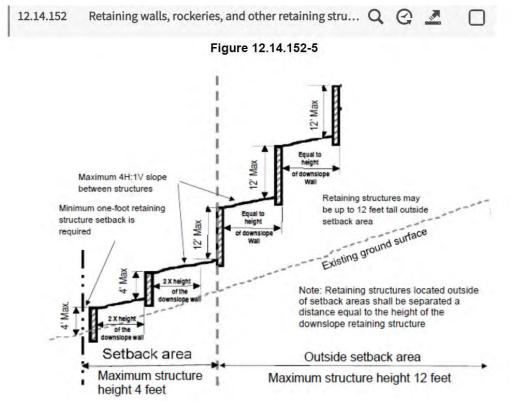
Any structure retaining fill material, which is less than 4 feet in height above finished grade, may be located in any required setback.

Any structure retaining fill material, which is 4 feet or greater, but less than 6 feet in height above finished grade, may be located in any required setback but, if visible from a public right-of-way or residentially zoned property, shall be constructed of or faced with brick, stone, split-face or fluted concrete block, textured poured-in-place concrete, or other materials with texture to reduce the apparent mass of the wall.

#### Bothell

MC 12.114.152





#### **Snohomish County**

#### MC 30.50.103.1.c

Retaining walls that are not over four feet (1,219 mm) in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge or impounding Class I, II or III A liquids.

#### MC 30.91B.200

"Building" means any structure having a roof supported by columns or walls designed for housing or shelter of persons, animals, or property of any kind. When separated by dividing walls without opening, each divided portion is considered a separate building.

#### MC 30.915.160

"Setback" means the distance that a building or use must be removed from the lot lines of the property.

#### MC 30.63B.130.4

For any proposed cut, fill, rockery, or retaining wall within six inches of a site boundary line, a survey by a land surveyor licensed in Washington State shall be completed that ensures compliance with construction and land disturbing activity site plans prior to construction in the affected area

Additional information was gathered by reviewing approved Civil Construction plans and several plot plans for residential development projects showing retaining walls within setbacks, without a variance noted on public



record. The below approved Civil Construction plans and plot plans were reviewed and determined to have retaining walls within the setbacks with no variance on public record.

- 1) City of Lake Stevens Hewitt
- 2) Lake Stevens Fairview Terrace
- 3) Marysville Havenwood
- 4) Mukilteo Harbor Grove
- 5) Mukilteo Hargreaves Plot 9055
- 6) Mukilteo Hargreaves Plot 9115
- 7) Mukilteo Mukilteo Highlands
- 8) Snohomish County DMH Holdings
- 9) Snohomish County Lake Stickney Trails

Key plan sheets for all above projects can be found at the end of this report.

#### Conclusion

Based on review of these projects, it is evident that the City of Mukilteo consistently allows for retaining walls within setbacks without variances. The additional five projects reviewed in four other jurisdictions suggest that it common for municipal codes to allow retaining walls within setbacks without variances.



#### Deficiency Argument 1.2: Future Homes Building Height would Require Variance

The retaining walls and subsequent fill elevate the future homes relative to the existing grade as shown in Figure 4 below.

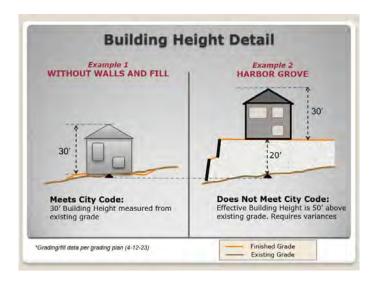


Figure 4: Visualization of elevated building height from fill, from Appellant letter 9-13-23

The combined building height when also considering the placed fill exceeds the building height allowed per zoning code.

#### Rebuttal: Precedent from Previously approved Projects, other Jurisdictions

Building Height is defined in Code section 17.08.020 below.

"Building height" means the vertical distance from the mean ground level (prior to any elevation change in native existing grade except as approved through a plat or short plat) to the highest point of the coping of a flat roof or to the deck line of a mansard roof or to the height of the highest gable or roofline of a gable or pitched roof."

Applying building height definition as written has been common practice for past approved projects in Mukilteo. If the fill is approved as part of a plat or short plat, the existing grade elevations for the building height calculation are replaced with the approved grades shown on the project submittals.

The alternative interpretation of the code proposed by the Appellant would make a significant portion of land within Mukilteo City limits unbuildable. If fill during civil infrastructure improvements had to be deducted from the allowable height of the home, the resulting homes would have to be unusually short. For example, Lot 5 of Highland Terrace in Mukilteo required 4-feet of fill per the approved civil construction plans to create a functional building pad for a home. The resulting building height would have to be lowered by 4-feet, and per typical zoning, the home could now only be 26-ft tall due to building height calculations. Similar issues would arise from lots 5, 6, 8, 9, and 15 where varying amount of fill was required. Mukilteo Highlands in Mukilteo, lots 1, 2, 3, 4, 8, 9, 10, 11, 12, and 13 also require varying amounts of fill, as typical of all development projects. Each home would now need have to have a custom architectural design to best utilize the allowable building height considering the change of grade, rather than architects designing based what is allowed per jurisdictional building height regulations. Inversely, when cuts are required per the civil infrastructure plans, the building



height could be considerably higher than what is allowed in the Code. For example, lot 7 of Mukilteo Highlands in Mukilteo, required 10-ft of cut per the approved civil infrastructure plans. The Appellants interpretation of the Code would allow for this lot to have a home that is 40-ft tall.

Overall, codes that due not exempt approved grade changes reflected on the approved civil infrastructure plans from building height calculations are complex, difficult to apply, and result in unbuildable lots in areas of varying grades like the City of Mukilteo.

A past project where the Code regarding building height has been applied in identical manner to Harbor Grove includes Mukilteo Highlands, visualized in Figure 5 below.



Figure 5: Mukilteo Highlands approved fill for building pads in 2005

#### Municipal Code Comparison: Building Height Calculation Modified Existing Grade during Plat

Six jurisdictions were reviewed to determine if retaining walls were allowed within setbacks without a variance. It was determined that the City of Mukilteo not requiring a variance to construct a retaining wall aligns with other jurisdictions.

#### Lake Stevens

#### 14.08.010 Definitions of Basic Terms.

Grade. The elevation of the ground surface.

- (a) "Existing grade" is the grade prior to grading.
- (b) "Rough grade" is the stage at which the grade approximately conforms to an approved site plan.
- (c) "Finished grade" is the final grade of the site that conforms to the approved site plan.
- (d) "Grading" is any excavating, filling, removing of the duff layer or combination thereof.



Grading. Any excavating or filling of land, including the duff layer, or any combination thereof.

#### 14.48.060 Building Height Limitations.

(a) For purposes of this section the height of a building shall be the vertical distance measured from the mean elevation of the finished grade along four points of the proposed building to the highest point of the building. The height of fences, walls, and hedges is as set forth in Chapter 14.52. The average finished grade shall be determined by first delineating the smallest square or rectangle which can enclose the building and then averaging the ground elevations taken at the midpoint of each side of the square or rectangle.

#### **Everett**

#### 19.22.060 How heights are measured.

- A. Overview. Building heights may be measured by the number of stories (floors) and/or by total feet permitted. Where the height limits show both floors and feet, both standards must be met. Where maximum building heights are shown in floors only, how the height of floors is calculated is explained in subsection (D) of this section.
- B. Where Heights Are Measured From. Where heights are measured from depends on the zone or location, and whether the site has alley access or is sloped and subject to subsection (B)(4) of this section.
- 3. Residential Zones. Building height measurements in residential zones depend on the zone and/or the overlay that might be applied.
- c. Other Residential Zones. The height of buildings shall be the number of floors and vertical distance from the base elevation of a building to the highest point of the roof, exclusive of building appurtenances.
- 4. Exceptions for Height Measurements. The following are exceptions to how heights are measured outlined in subsections (B)(1) through (B)(3) of this section.
- b. Steeper Sites. Any zone in which building heights are determined based on the sidewalk elevation at the front lot line and where a site for development has a difference in existing grade between the sidewalk and midpoint of the front setback line of five feet or more, the height shall be determined as the number of floors and vertical distance from the base elevation of a building to the highest point of the roof, exclusive of building appurtenances.

#### Bothell

#### 12.14.110 Building height – General measurement method.

- A. Building height shall be measured vertically from the average city-approved finish grade to the highest point of the structure.
- B. The average city-approved finish grade shall be measured by first delineating the smallest rectangle which can enclose the building and then averaging the existing ground elevations taken at the midpoint of each side of the rectangle. In the event the midpoint of the rectangle drawn is not located on the subject property, the measurement point shall be determined by establishing the midpoint of the property line where it intersects the rectangle.



#### **Snohomish County**

#### 30.23.050 Height requirements, exceptions and measuring height.

Fill shall not be used to raise the average final grade more than five feet above the existing grade of any dwelling located within 50 feet on adjoining properties, as illustrated in SCC Figure 30.23.050(3); provided, that the provisions of this subsection (5) shall not apply to residential development subject to chapters 30.23A and 30.41G SCC.

#### Marysville

#### MC 22A.020.030

"Building height" means the vertical distance from the base elevation of a building to the highest point of the roof, exclusive of building appurtenances.

"Base elevation" means the average elevation of the approved topography of a parcel at the midpoint on each of the four sides of the smallest rectangle which will enclose the proposed structure, excluding all eaves and decks. The approved topography of a parcel is the natural topography of a parcel or the topographic conditions approved by the city prior to August 10, 1969, or as approved by a subdivision, short subdivision, binding site plan, shoreline substantial development permit, filling and grading permit or SEPA environmental review issued after August 10, 1969. An approved benchmark will establish the relative elevation of the four points used to establish the base elevation.

Additional information was gathered by reviewing approved Civil Construction plans for evidence of existing grade change during the plat process that did not result in a change of building height requirements. Existing and proposed grades are delineated for clarity, and the notable cut and fill difference are shown on the subsequent reviewed plans. The below projects Civil Construction plans were found to have significant grade changes that were approved as part of the plat process, and did not result in a change of building height.

- 1) City of Lake Stevens Hewitt
- 2) Lake Stevens Fairview Terrace
- 3) Marysville Havenwood
- 4) Mukilteo Harbor Grove
- 5) Mukilteo Mukilteo Highlands
- 6) Snohomish County DMH Holdings
- 7) Snohomish County Lake Stickney Trails

Key plan sheets for all above projects, with pad elevations, existing grades, and relative cut/fills annotated can be found at the end of this report.

#### Conclusion

Based on review of these projects and respective codes from other jurisdictions, it is evident that the City of Mukilteo consistently applies the Code regarding building height calculations, and it's application and interpretation of the Code is consistent with other jurisdictions. The additional five jurisdictional codes reviewed suggest that it common for municipal codes to allow for a change of grade without affecting building height.



#### Deficiency Argument 1.3: Project is not consistent with Surrounding Land Use and Design

The design of the project is inconsistent with the character of the surrounding development in accordance with 17.13.010.C.4. The properties within the vicinity of the project have been developed without the use of large fills and retaining walls. The immediately neighboring Daffron Short Plat by comparison needs no retaining walls.

#### Rebuttal: Precedent from Previously approved Projects, MMC

Please refer to the Rebuttal to Deficiency Argument 1.2 and the examples of recent projects where significant fill was allowed. The vertical elevation relief of the existing grade for the Daffron Short Plat was approximately 20-ft where the Harbor Grove Short Plat has approximately 30-ft, resulting in a different engineering design to avoid adverse stormwater impacts to neighboring properties.

#### Deficiency Argument 1.3: Application does not Include Slope and Vegetation Data

MMC 15.12.050.C. – Table 1 – Clearing Matrix was applied incorrectly. The applicant used the "average slope" instead of providing the required slope map that would have showed the steeper areas of the site that would have lead to the requirement of more tree and native vegetation retention per the table and figure below.

Table 1: Clearing Matrix				
Grade of Site or Slope (%)	Maximum Native Vegetation/Groundcover Removal (%)	Minimum Required Significant Tree Retention (%)		
> 35% 2b		See notes.		
> 25%—≤ 35%	45%	55%		
> 15%—≤ 25%	60%	40%		
≤ 15%	75%	25%		

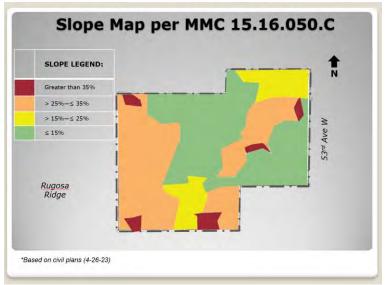


Figure 6: Clearing Matrix Table and Suggested Slope Map of Harbor Grove



#### Rebuttal: Precedent from Previously approved Projects

The term "slope map" is not a term used in the Code, nor is the map visualized in Figure 6 listed as a requirement of the "Slope report" that is described in the Code. Please see below sections of the Code.

#### 15.16.050 Requirements.

- 2. Table Notes.
- b. Applications for clearing and grading on slopes in excess of thirty-five percent shall be accepted in those cases where tree removal is limited to pruning (provided survival is assured). Clearing or grading on slopes in excess of thirty-five percent may be allowed upon prior review and approval by the permit authority, to the extent permitted by this subsection (C)(2)(b). In addition to any other information that may be required, the applicant shall provide the following:
- i. Slope Report. The slope report shall be prepared by a qualified professional. The required slope report shall contain the following information, including recommended methods for mitigating identified impacts and a description of how these mitigating measures may impact adjacent property:
- (a) Soils Report. Investigation and report shall be prepared by or under the supervision of a civil engineer with a soil/geotechnical expertise, licensed by the state of Washington and acceptable to the city. This report shall include data regarding the nature, distribution and strength of existing soils and the characteristics of the underlying geology, infiltration rates, conclusions and recommendations for grading procedures, design criteria for corrective measures and opinions and recommendations covering the carrying capabilities of the site. The applicant shall indicate location of soils that should remain undisturbed or used for stormwater management purposes during the time of construction;

Because of public comments of concern on Harbor Grove, the City required the additional reports outlined in the Code excerpts above. The Code does not explicitly describe how the Clearing Matrix Table is to be applied, leaving the qualified professionals to propose means of applying the table for review and approval of the City. Per the City, the proposed method of applying the Clearing Matrix with use of an average grade was acceptable.



#### Alleged Deficiencies: Project Conflicts with SEPA Requirements

#### Alleged Deficiency 2.1: DNS does not Provide Complete description of the Project Proposal

Project description in Section A.11 does not recount key elements of the project including:

- 1. Total length of the proposed retaining walls
- 2. Location of the retaining walls relative to zoning setbacks
- 3. Combined total height of the two tier retaining walls
- 4. Total yards of material moved or brought in for fill
- 5. Use of stormwater pump, pump location, and length of pumping line to discharge location

#### Rebuttal: General Information was Provided as Requested

The applicant answered the question required from the SEPA. Examples as follows.

Section A.11 requests the applicant to "Give brief, complete description of your proposal, including the proposed uses and the size of the project and site." The applicant responded,

"The proposed project consists of the demolition of an existing vacant single family residence and construction of seven (7) single-family residential homes with a minimum lot size of 12,500 square-feet. The existing driveway and frontage on 53rd Avenue West will be upgraded to current City Standards. The project also includes site improvements such as landscaping, storm water management infrastructure, retaining walls, open space, and utility connections."

Section B.1.e requests the applicant to, "Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill." The applicant responded,

"The project will cut approximately 5,100 cubic yards of soil from the site. In total, the project will use approximately 10,200 cubic yards of soil for fill, where 5,100 cubic yards will be imported from an approved source."

Section B.3.c.1 requests the applicant to, "Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe." The applicant responded,

"Water runoff from both storms and construction activities will be conveyed to yard drains and catch basins will capture surface runoff and route it to a detention vault beneath the proposed access road. The vault outlets east in a tightline to 53rd Ave West then south approximately 280' to an existing storm drain pipe at 92nd Street SW. The runoff will not flow into other waters."



#### Alleged Deficiency 2.2: DNS does not Address Short and Long Term Project Impacts

The DNS does not identify or analyze impacts on the abutting property owners on the west side of the project site. This includes impacts identified in public comments submitted previously on the project. These impacts will result in material damage to the abutting properties, caused by:

- 1. short- and long-term impacts on surface water, earth and topography, groundwater
  - a. silt fence inadequate, difficult build sequence to prevent mass soil movement, swale and pump at toe of retaining wall could be easily overwhelmed by with sediment during large storm even during construction, property damage during construction
- 2. Risk of differential Settlement
- 3. Risk of retaining Wall Failure
- 4. Risk of drainage system failure
- 5. Need for retaining wall and pumping system to "function **perfectly** forever to avoid impacts on the adjacent properties."
- 6. Inadequate access to maintain the pumping system and difficult for Mukilteo to enforce maintenance

#### Rebuttal: Professional Engineers and Professional Hydrologists were Hired

Professional Engineers and Professional Hydrologists were hired to design a project that addresses these concerns. Their stamp on all subsequent plans and reports serves as evidence the design will safely function as designed and is under their professional liability should it not perform as designed. Kindred Hydro, updated the hydrological report to include Landau's (Appellant's professional hydrological consultant) more conservative assumptions result was negligibly different. On page 4, paragraph 5, the Kindred Hydrological Report states

"Hydrologic modeling presented in this report indicates that development of the site will reduce surface discharge towards the Hargreaves properties by 20-70 percent, even without the pump at the base of the retaining wall. Based on methods developed by Bidlake and Payne (2001) development of the site will also reduce groundwater recharge at the site by approximately 50 percent. These analyses indicate that development of the site should reduce the water flow into and beneath the Hargrove properties west of the site."

Stormwater was clearly evaluated and determined not to create short or long term storm, erosion or drainage system failure.

#### Alleged Deficiency 2.2: DNS does not Analyze Impacts on the Abutting property Owners

The DNS does not identify or analyze impacts on the abutting property owners on the west side of the project site. This includes impacts identified in public comments submitted previously on the project. These impacts will result in undesirable impacts to the abutting properties, including:

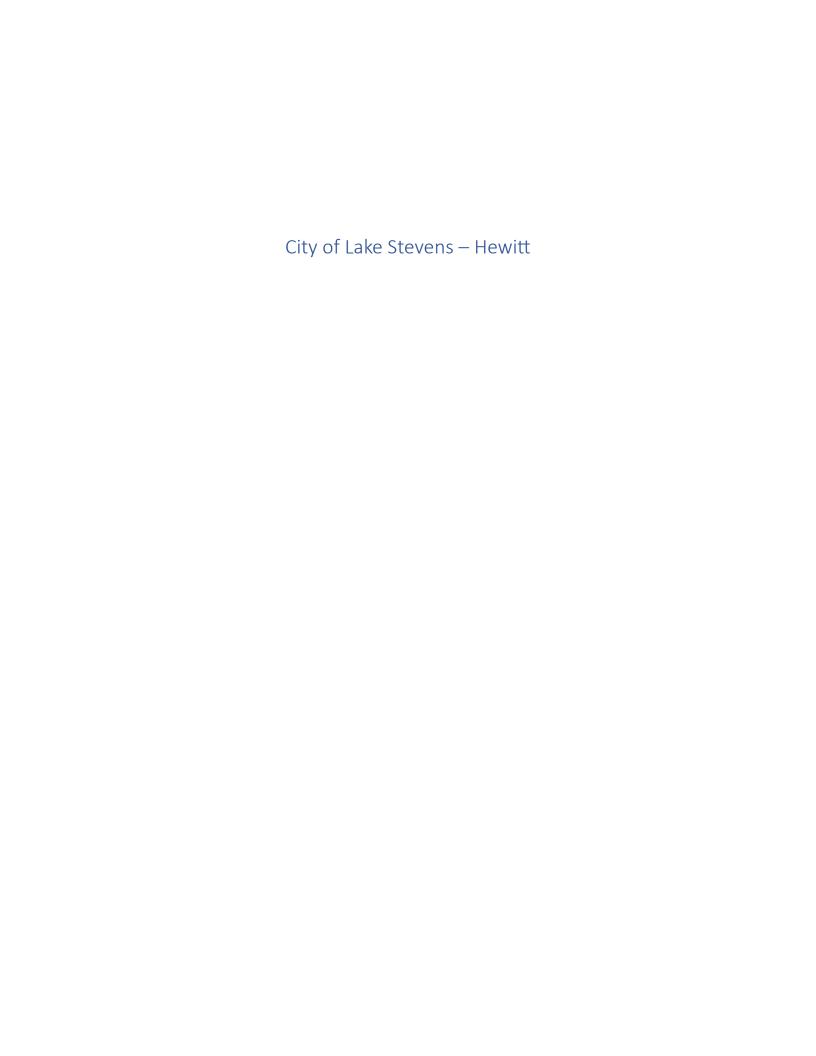
- 1. Visual impacts and aesthetics (land and shoreline use)
- 2. light/shadow impacts created by excessive grade changes, building height and retaining wall height.

#### Rebuttal: Continuation of Terraces in Place at Ruby Ridge, Significant Building Separation

Approximately 100-ft lie between the proposed building pads and the nearest rear wall of a home in Rugosa Ridge, and significant trees along the westerly property line of the proposed Harbor Grove currently shadowing Rugosa Ridge proposed to be removed. Landscaping was proposed along the retaining wall terrace to mitigate visual



impacts. The retaining wall design selected is a Lock and Load Stone, which has architectural properties and grid "brick" lines that help break up the mass of the wall face, as opposed to a cast in place concrete wall, shown in Figure 2 above that has less than desirable visual qualities.



#### HEWITT AVE DEVELOPMENT LEGAL DESCRIPTION ROAD & STORM DRAINAGE PLANS THE NORTH 300 FEET OF LOT 5, GLENWOOD DIVISION A, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 7 OF PLATS, PAGE 46, RECORDS OF SNOHOMISH COUNTY, WASHINGTON: EXCEPT THE NORTH 130 FEET THEREOF: S 89'26'10" E 289.03' TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS OVER THE SOUTH 30 FEET OF THE EAST 95 FEET OF THE NORTH 130 FEET OF SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON. ADJUSTED PARCEL 2 OF SNOHOMISH COUNTY BOUNDARY LINE ADJUSTMENT #02-101604 RECORDED UNDER AUDITOR'S FILE NUMBER 200205020818 AND CORRECTED UNDER AUDITOR'S FILE 22 Z NUMBER 200209030126, BEING DESCRIBED AS FOLLOWS: THE NORTH 130 FEET OF LOT 5, GLENWOOD DIVISION A, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 7 OF PLATS, PAGE 46, RECORDS OF SNOHOMISH COUNTY, WASHINGTON. 15' PUBLIC SEWER EASEMENT SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON **12** 3,761 SF PER CHICAGO TITLE INSURANCE COMPANY ORDER NO. 500055392 AMENDMENT NO. 2 DATED 2, JANUARY 2018 TRACT 999 3,965 SF 1. SUBJECT TO THE RIGHT TO ENTER SAID PREMISES FOR THE PURPOSE OF BRUSH CUTTING TO MAINTAIN OVERHEAD UTILITY 8.477 SF LINES ON ADJACENT PROPERTY, AS GRANTED BY INSTRUMENT RECORDED UNDER AFN. 1749681. PLOTTED HEREON. 2. SUBJECT TO ALL COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS EASEMENTS, EASEMENT PROVISIONS, TRACT 998 DEDICATIONS BUILDING SETBACK LINES, NOTES, STATEMENTS, PRIVATE ACCESS & UTILITIES AND OTHER MATTERS, IF ANY AS SET FORTH ON SNOHOMISH COUNTY SHORT PLAT NUMBER SP546(12-79) RECORDED UNDER AFN. 8003210151. NOTHING TO PLOT. 5,969 SF SUBJECT TO THE TERMS AND CONDITIONS OF A ROAD MAINTENANCE AGREEMENT UNDER AFN 8003210151. EASEMENT S LINE LOT 2 SP NO. SP546 (12-79) REC. NO IN SAID AGREEMENT WAS MODIFIED BY NUMBER 4 BELOW. ALSO ALL PROPERTIES SERVED BY SAID EASEMENT ARE UNDER 8003210151 (TO BE RELINQUISHED) COMMON OWNERSHIP OF THE APPLICANT NOW. SUBJECT TO THE TERMS PROVISIONS, CONDITIONS AND EASEMENTS OF AN AFFIDAVIT OF BOUNDARY LINE ADJUSTMENT UNDER AFN 200205020818, AND CORRECTED UNDER AFN **9** 4,212 SF 200209030126. EASEMENT AS SHOWN ON SAID BLA IS PLOTTED \(TO BE RELINQUISHED) DATUM W LINE OF EX INGRESS AND EGRESS EASEMENT (TO BE RELINQUISHED) REC. NO. 200205020818 (TO BE RELINQUISHED) MERIDIAN WASHINGTON STATE PLANE COORDINATE SYSTEM - NORTH ZONE (TO BE RELINQUISHED) (NAD83/91) (PER WASHINGTON GEODETIC SURVEY CONTROL POINTS ID NOS. 21817 AND 21315) 3,648 SF BENCHMARKS ORIGINAL BM: WGS CONTROL POINT ID#21817 FOUND 4"X4" CONC MON WITH 3" BRASS PUNCHED DISC "SNO. CO. SURVEY MON PUBLIC WORKS / PLS 12388" 0.6' BELOW GRADE IN CASE AT INTX OF 20TH SE AND 99TH AVE. ROAD A ELEV. = 384.84' MOST WESTERLY NUT ON TOP FLANGE FIRE (PUBLIC) HYDRANT AT E SIDE 99 AVE SE AND 52' NE'LY OF ELEV. = 402.53' WGS PNT. 2905P25(ID#21315). FOUND 4"X4" CONC MON WITH 1-1/2" BRASS PUNCHED DISC 0.7' BELOW GRADE IN CASE 2.7' W OF ASBUILT CL OF 99TH AVE. ELEV. = 398.30' EQUIPMENT NOTES A 5" ELECTRONIC TOTAL STATION WAS USED FOR THIS FIELD TRACT 997 TRAVERSE SURVEY. ACCURACY MEETS OR EXCEEDS W.A.C. PRIVATE ACCESS & UTILITIES 1,578 SF GENERAL NOTES 3,603 SF 1. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE 1 7 RESULTS OF A SURVEY MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION 3,682 SF 2. UNDERGROUND UTILITIES WERE LOCATED BASED ON THE 3.674 SF 3,648 SF SURFACE EVIDENCE OF UTILITIES (I.E. PAINT MARKS, SAW CUTS IN PAVEMENT, COVERS, LIDS ETC.) THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, ELEVATION AND SIZE OF EXISTING SOUTH 60' OF THE EAST 60' UTILITIES PRIOR TO CONSTRUCTION. LOT 5 GLENWOOD 4 PER EASEMENT FOR AERIAL WIRE 3. TREE SIZES WERE LOCATED & SPECIES DETERMINED TO THE BEST OF OUR ABILITY. HOWEVER, MEAD GILMAN & ASSOCIATES CROSSING, PER AFN. 1749681 (TO BE RELINQUISHED) DOES NOT WARRANT THE ACCURACY OF SIZE & SPECIES SHOWN HEREON. ANY TREES CONSIDERED TO BE CRITICAL SHOULD BE VERIFIED BY A TRAINED ARBORIST. SHEET INDEX CV-01 COVER SHEET GN-01 GENERAL NOTES & LEGEND N 89'26'10" W 288.90' EC-01 EXISTING CONDITIONS & DEMOLITION PLAN PCL. NO. 00457000000511 TP-01 TESC PLAN TD-01 TESC DETAILS AL-01 ALIGNMENT PLAN GP-01 GRADING PLAN CD-01 CURB DETAILS RS-01 ROAD & STORM DRAINAGE PLAN & PROFILE 10 RP-01 ROAD & STORM PROFILES FRONTAGE IMPROVEMENTS PLAN & PROFILE 12 SD-01 SITE DISTANCE PLAN 13 RD-01 ROAD SECTIONS 14 VT-01 VAULT PLAN 3" BRASS PUNCHED DISC "SNO CO SURVEY MON PUBLIC 15 VT-02 VAULT SECTIONS & DETAILS

16 DT-01 STANDARD DETAILS

17 DT-02 STANDARD DETAILS

18 DT-03 STANDARD DETAILS

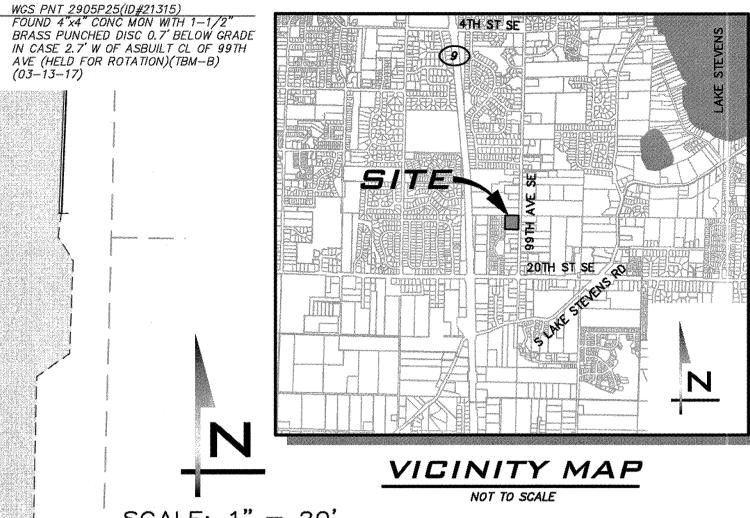
21 LS-03 LANDSCAPE DETAILS

20 LS-02 LANDSCAPE PLAN

22 IR-01 IRRIGATION PLAN

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19 LS-01 TREE RETENTION PLAN



## PROJECT TEAM

### OWNER/APPLICANT

KEYSTONE LAND, LLC 13805 SMOKEY POINT BLVD, SUITE 101 MARYSVILLE, WA 98271 (360) 659-9444 CONTACT: PAUL LEAVITT

CIVIL ENGINEER THE BLUELINE GROUP 25 CENTRAL WAY, SUITE 400 KIRKLAND, WA 98033 (425) 250-7224 CONTACT: TODD A. OBERG. PE

BELLEVUE, WA 98005 (425) 449-4706

CONTACT: HENRY WRIGHT, PE

SURVEYOR MEAD GILMAN & ASSOCIATES P.O. BOX 289 WOODINVILLE, WA 98072 (425) 486-1252 CONTACT: SHANE BARNES, PLS

THE BLUELINE GROUP

25 CENTRAL WAY, SUITE 400

KIRKLAND, WA 98033 (425) 250-7230 CONTACT: TC COLLERAN, RLA

LANDSCAPE ARCHITECT

GEOTECHNICAL ENGINEER EARTH SOLUTIONS NW, LLC 1805 136TH PLACE NE, SUITE 201

## UTILITY PURVEYORS

SNOHOMISH PUD LAKE STEVENS SEWER DISTRICT SANITARY SEWER: LAKE STEVENS FIRE DISTRICT 08 LAKE STEVENS SCHOOL DISTRICT #04

## SITE DATA

SITE ADDRESS: TAX ACCOUNT NUMBER: EXISTING ZONING: GROSS SITE AREA:

1612 & 1616 99TH AVE SE 00457000000516, 00457000000501 HUR / 20TH STREET 1.99 ACRES (86,689 SF)

NUMBER OF LOTS PROPOSED: 3,600 SF MINIMUM LOT SIZE:

MINIMUM LOT WIDTH: NON-ARTERIAL STREET SETBACK: EXTERIOR SIDE YARD SETBACK: SIDE & REAR SETBACKS:

MAX IMPERVIOUS (PER LOT): BUILDING HEIGHT (FG):

> U. S. POSTAL SERVICE APPROVED FOR MAILBOX LOCATION(S) BY: \_\_\_ SHELLY CARMICHAEL US POSTAL SERVICE (ORIGINAL SIGNATURE IN FILE) DATE: 3/4/19

## EXISTING UTILITY NOTE

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. AGENCIES INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE TIME PRIOR TO THE START OF CONSTRUCTION. CALL 1-800-424-5555 BEFORE YOU DIG.

## CITY OF LAKE STEVENS

SECTION 10 CONSTRUCTION DRAWING REVIEW ACKNOWLEDGMENT

THIS PLAN SHEET HAS BEEN REVIEWED AND EVALUATED FOR GENERAL COMPLIANCE WITH THE APPLICABLE CITY OF LAKE STEVENS CODES AND ORDINANCES. CONFORMANCE OF THIS DESIGN WITH ALL APPLICABLE LAWS AND REGULATIONS IS THE FULL AND COMPLETE RESPONSIBILITY OF LICENSED DESIGN ENGINEER, WHOSE STAMP AND SIGNATURE APPEAR ON THIS SHEET. ACKNOWLEDGMENT OF CONSTRUCTION DRAWING REVIEW DOES NOT IMPLY CITY APPROVAL FOR CONSTRUCTION ACTIVITIES THAT REQUIRED OTHER COUNTY, STATE OR FEDERAL PERMIT REVIEW AND APPROVAL. THE PROPERTY OWNER AND LICENSED DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE ACQUISITION AND COMPLIANCE OF ALL APPLICABLE PERMITS OR AUTHORIZATIONS THAT MAY INCLUDE, BUT ARE NOT LIMITED TO, WDFW HYDRAULIC PROJECT APPROVAL (HPA), WASHINGTON STATE ECOLOGY'S NOTICE OF INTENT (NOI), NPDES CONSTRUCTION STORMWATER GENERAL PERMIT, ALL U.S. ARMY CORPS OF ENGINEERS FILL PERMITS, AND THE REQUIREMENTS OF THE ENDANGERED SPECIES ACT. NOV 07 2019

THIS \_\_\_\_\_\_, 2019. CITY ENGINEER/PUBLIC WORKS DIRECTOR

WORKS / PLS 12388 0.6'

(ORIGINAL TBM)

OF 20TH SE AND 99TH AVE

(03-13-17) (HELD FOR HOR

BELOW GRADE IN CASE AT INTX

CITY OF LAKE STEVENS PROJECT NUMBER: LUA2018-0015 & LUA2018-0016



25 CENTRAL WAY, SUITE 400, P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM

AS NOTED

PROJECT MANAGER: TODD A. OBERG, PE PROJECT ENGINEER:

TODO A. OBERG, PE DESIGNER: DOMINQUE GABALDON

ISSUE DATE:

10/9/2019 OWNER KEYSTONE LAND, LLC 13805 SMOKEY POINT BLVD, SUITE 10 MARYSVILLE, WA 98271

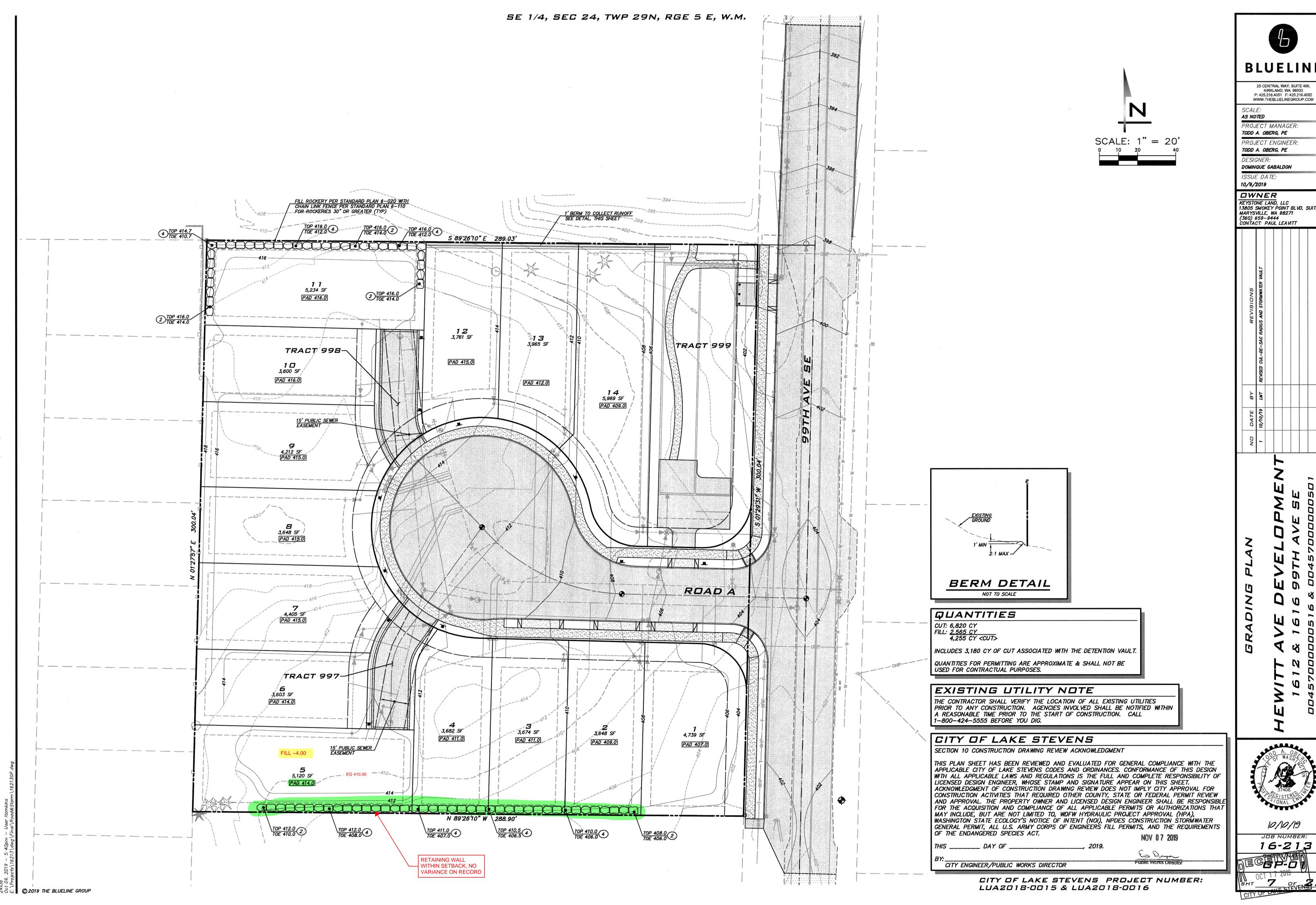
CONTACT: PAUL LEAVITT

-

10/10/19 JOB NUMBER: 16-213

SHEET NAME: CV-U使国D

CITY OF LAKE STEVENS CUA-2019-0188



BLUELINE

25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

AS NOTED

PROJECT MANAGER:

TODD A. OBERG, PE PROJECT ENGINEER:

DESIGNER: DOMINQUE GABALDON

ISSUE DATE:

10/9/2019

OWNER

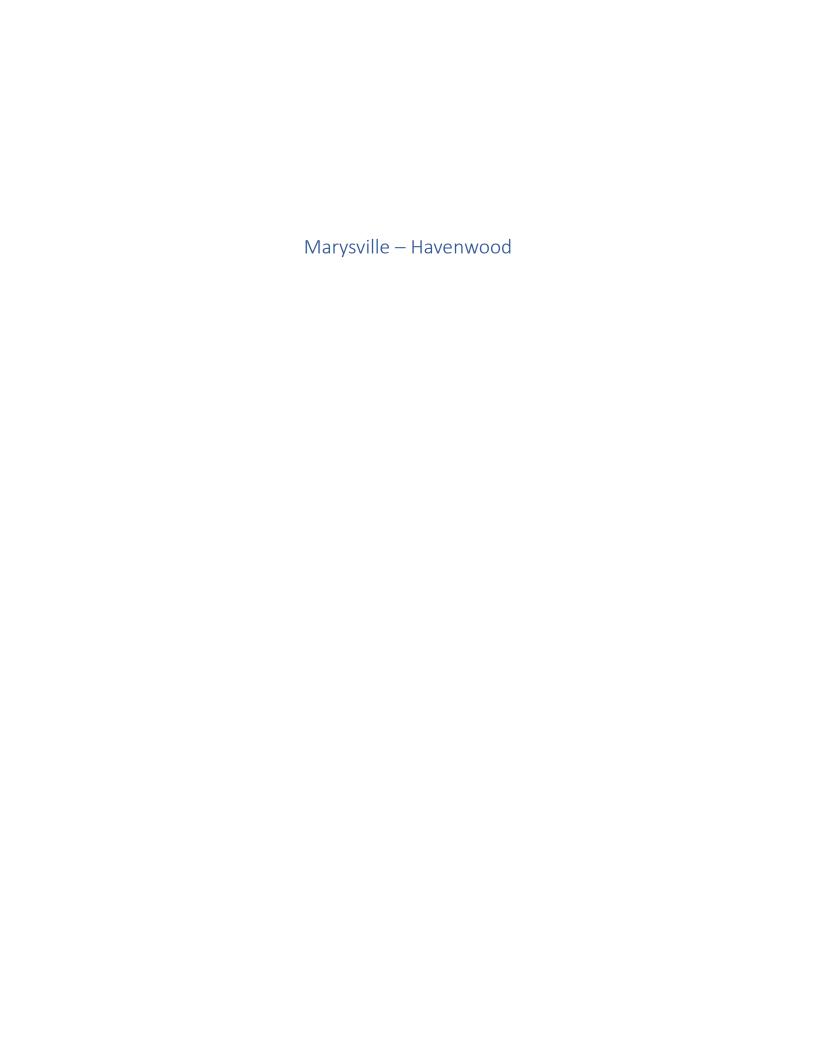
KEYSTONE LAND, LLC 13805 SMOKEY POINT BLVD, SUITE 101 MARYSVILLE, WA 98271 (360) 659-9444 CONTACT: PAUL LEAVITT



10/10/19

16-213





REVISED FRONTAGE DRAINAGE TO ACCOMMODATE UPSTREAM

BYPASS FLOWS FROM THE NEIGHBORHOOD IMMEDIATELY

SOUTH OF THE SITE. THE REVISED SHEETS HAVE BEEN

4,359 SF

10,735 SF

TRACT 997

PIVATE ACCESS AND UTILITIE \_2,900 SF

8,542 SF

4,449 SF

RDI BONUS DENSITY

2.45 DU BONUS

*1 DU BONUS* 

0.83 DU BONUS

4.28 DU BONUS

S 88'23'35" E 626.11'

ROAD A

1 🛭

5,641 SF

\_\_\_\_\_\_\_

4,700 SF

13 4,370 SF

4,275 SF

4.317 SF

LANDSCAPING & IRRIGATION PLANS HAVE BEEN SEPARATED

FROM THIS SET AND APPROVED

**28** 4,677 SF

5,675 SF

4,482 SF

4,656 SF

4,744 SF

. — — — — — — —

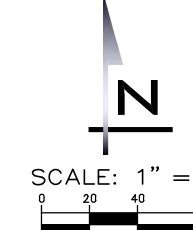
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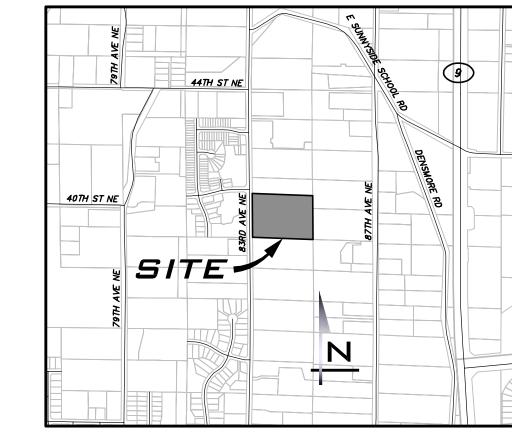
4,832 SF

5,020 SF

20

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## VICINITY MAP

THE BLUELINE GROUP

## PROJECT TEAM

OWNER KEYSTONE LAND, LLC 13805 SMOKEY POINT BLVD, SUITE 101 MARYSVILLE, WA 98271 (425) 248-9035 CONTACT: LYNN ESHLEMAN LYNNESHLEMAN@OUTLOOK.COM

CIVIL ENGINEER THE BLUELINE GROUP 25 CENTRAL WAY, SUITE 400 KIRKLAND, WA 98033 (425) 250-7230 CONTACT: TC COLLERAN, PLA, AICP

EMAIL: TCOLLERAN@THEBLUELINEGROUP.COM SURVEYOR PACIFIC COAST SURVEY PO BOX 13619 MILL CREEK, WA 98082 *(425) 512–7099* CONTACT: DARREN RIDDLE, PLS.

EMAIL: DARREN@PCSURVEYS.NET GEOTECH ENGINEER

EARTH SOLUTIONS NW. LLC 15365 NORTHEAST 90TH STREET, SUITE 100 REDMOND, WA 98052 (425) 449-4704 CONTACT: HENRY WRIGHT

25 CENTRAL WAY, SUITE 400 KIRKLAND, WA 98033 (425) 250-7230 CONTACT: TC COLLERAN, PLA. AICP EMAIL: TCOLLERAN@THEBLUELINEGROUP.COM TRAFFIC ENGINEER GIBSON TRAFFIC CONSULTANTS 2802 WETMORE AVE, SUITE 220 EVERETT, WASHINGTON 98201 (425) 339-8266 CONTACT: BRAD LINCOLN, P.E.

LANDSCAPE ARCHITECT

BRADL@GIBSONTRAFFIC.COM WETLAND BIOLOGIST SOUND VIEW CONSULTANTS 2907 HARBORVIEW DRIVE, SUITE H GIG HARBOR, WA 98335 (253) 514-8952

CONTACT: ANN BOEHOLT ANN@SOUNDVIEWCONSULTANTS.COM

EMAIL: HENRY. WRIGHT@EARTHSOLUTIONSNW. COM SHFFT INDEX

LD-01

LD-02

LD-03

SL-01

44

45

10.869 SF

19,403 SF (SEE LS-00)

13,188 SF (SEE LS-00)

REQUIREMENTS

 $36 \times 1 = 36$ 

IINDEX	
CV-01	COVER SHEET
CV-02	NOTES
EC-01	EXISTING CONDITIONS & DEMO PLAN
HC-01	HORIZONTAL CONTROL PLAN
TP-0 1	TESC PLAN
TD-01	TESC DETAILS
TN-01	TESC NOTES
GP-01	GRADING PLAN
RS01-05	ROAD & STORM PLANS & PROFILES
RD-01	ROAD SECTIONS
CD-01-02	CURB RAMP DETAILS
FI-01-02	FRONTAGE IMPROVEMENT PLAN
VT-🗆 1	VAULT SECTIONS
VT-02	CONTROL STRUCTURE DETAILS
SW-01	SEWER & WATER PLAN
SP-01	SEWER & WATER PROFILES & DETAILS
SP-02-03	SEWER & WATER PROFILES
CU-01	COMPOSITE UTILITY PLAN
CH-01	CHANNELIZATION & SIGNAGE PLAN
GD-01	TRACT 999 GRADING & PATH DETAIL
DT-01-03	STANDARD DETAILS
	SIGHT DISTANCE ANALYSIS
LM-00-03	LANDSCAPE MATERIALS PLAN
LS-00-02	LANDSCAPE PLANTING PLANS
	CV-01 CV-02 EC-01 HC-01 TP-01 TD-01 TN-01 GP-01 RS01-05 RD-01 CD-01-02 VT-01 VT-02 SW-01 SP-01 SP-01 SP-01 SP-01 SP-01 SP-01 CH-01 CH-01 CH-01 CH-01 CH-01

EXISTING UTILITY NOTE

STREET LIGHTING PLAN

IRRIGATION DETAILS

PLANTING DETAILS

SITE DETAILS

EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE

# **CITY OF MARYSVILLE**

THESE APPROVED CONSTRUCTION PLANS EXPIRE AFTER A PERIOD OF MONTHS FROM THE DATE SHOWN ABOVE, OR UPON EXPIRATION OF RELIMINARY PLAT OR SITE PLAN APPROVAL PER MMC 22A.040.030

09/07/2022

KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM

BLUELINE

AS NOTED TC COLLERAN, PLA, AICH PROJECT ENGINEER.

JAMES SCHOUTEN LEE M. TOMKINS

07/13/2022

05/11/2022

SHEET NAME: CV-01

LEGAL DESCRIPTION

**DESIGN CHANGE #2** 

UPDATED IN THIS PLAN-SET.

THE WEST 250 FEET OF TRACT 219, SUNNY SIDE FIVE ACRE TRACTS, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 7 OF PLATS, PAGE 19, RECORDS OF SNOHOMISH COUNTY

ITH ST NE

EXCEPT THE NORTH 166 FEET THEREOF;

SITUATE IN COUNTY OF SNOHOMISH, STATE OF WASHINGTON

TRACT 219, SUNNY SIDE FIVE ACRE TRACTS, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 7 OF PLATS, PAGE 19, RECORDS OF EXCEPT THE NORTH 166 FEET THEREOF. EXCEPT THE WEST 250 FEET THEREOF;

SITUATE IN COUNTY OF SNOHOMISH, STATE OF WASHINGTON

THE NORTH HALF OF TRACT 237, SUNNY SIDE FIVE ACRE TRACTS. ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 7 OF PLATS, PAGE 19, RECORDS OF SNOHOMISH COUNTY, WASHINGTON

SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON

THE SOUTH HALF OF TRACT 237, SUNNY SIDE FIVE ACRE TRACTS. ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 7 OF PLATS,

SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON

EQUIPMENT & PROCEDURES

SURVEY PERFORMED BY FIELD TRAVERSE AND REAL TIME KINEMATIC GPS POSITIONING UTILIZING THE HXGN SMARTNET NETWORK

LEICA TS16 ROBOTIC ELECTRONIC TOTAL STATION LEICA VIVA GNSS GS08 RECEIVER

MEETS OR EXCEEDS STATE STANDARDS WAC 332-130-090

BASIS OF BEARING THE MONUMENTED CENTERLINE OF 83RD AVE. N.E. AS THE BEARING OF N 00'34'18" W

VERTICAL DATUM

HORIZONTAL DATUM NAD 83/91, WASHINGTON STATE PLANE COORDINATE SYSTEM,

**&BENCH MARK** 

(OBTAINED BY GPS OBSERVATION)

MON. IN CASE: PUNCH IN 1-1/2" BRASS DISC IN 4"X4" CONC. POST ELEV.=364.33

# SURVEY REFERENCES

- RECORD OF SURVEY BY A.S.P.I. RECORDED UNDER AFN-200205305003
- PLAT OF WHISKEY RIDGE VIEWS RECORDED UNDER AFN—202009285001 - PLAT OF CREST VIEW COMMONS RECORDED UNDER AFN-201907315001
- PLAT OF SUNNY SIDE FIVE ACRE TRACTS, VOLUME 7 OF PLATS, PAGE 19, RECORDS OF SNOHOMISH COUNTY

SITE INFORMATION

NET DEVELOPABLE AREA (MINUS 20%) BASE DENSITY HOMES ALLOWED

MAXIMUM DENSITY

PROPOSED DENSITY 36 HOMES\*\*

\*\* REQUIRES 4 BONUS TO ACHIEVE PROPOSED DENSITY. BONUS UNITS ACHIEVED THROUGH RESIDENTIAL DENSITY INCENTIVES (RDI'S), SEE CHART BELOW.

PRD DEVELOPMENT STANDARDS

**FRONT** 

SETBACKS

PUBLIC/COMMUNITY IMPROVEMENT. GARAGE SIDE MINIMUM LOT SIZE 3,500 SF

MINIMUM LOT WIDTH MAXIMUM BUILDING HEIGHT MAXIMUM BUILDING COVERAGE MAXIMUM IMPERVIOUS SURFACE MAXIMUM LOT WIDTH MINIMUM DRIVEWAY LENGTH MAXIMUM PARKING

PROPOSED USE:

CITY OF MARYSVILLE SEWER AND WATER DISTRICT: SCHOOL DISTRICT: MARYSVILLE FIRE DISTRICT FIRE DISTRICT: TELEPHONE SERVICE: FRONTIER POWER SOURCE: SNOHOMISH COUNTY PUD

DEVELOPMENT LAKE STEVEN SCHOOL DISTRICT NO. 4

3 STALL PER DETACHED

PLANNED RESIDENTIAL

SINGLE-FAMILY DWELLING

289,329 SF (6.64 AC) 231,463 SF (5.31 AC)

31.9 HOMES -> 32 HOMES

10' - PORCHES MAY EXTEND AS

CLOSE AS 7' FROM THE STREET,

SIDEWALK, RIGHT-OF-WAY, OR

R6-18MFL

6 DU/AC

NONE

70%

(EAST PROPERTY LINES) / 500 = 0.83 UNITS TOTAL RESIDENTIAL DENSITY INCENTIVES

(6a) DUAL USE OF STORM WATER TRACT

(7c) PROJECT DESIGN - PERIMETER FENCING

(3a) CONTRIBUTION TOWARDS AN IDENTIFIED CAPITAL

RDI BENEFIT DESCRIPTION

(\$15,000/UNIT)

39TH ST NE

TRACT 999

PUBLIC OPEN SPACE/

32.591 SF

4,023 SF

4.040 SF

-----

TRACT 998

PRIVATE ACCESS AND UTILTIIES \
1,643 SF

4,710 SF

RESIDENTIAL DENSITY INCENTIVES

PROPOSED RESIDENTIAL DENSITY INCENTIVES (PER MMC 22C.090)

5 BONUS UNITS PER ACRE OF STORM WATER FACILITY TRACTS

USED FOR ACTIVE RECREATION (0.50 AC  $\times$  5 = 2.45 UNITS)

IMPROVEMENT PROJECT, INCLUDING, BUT NOT LIMITED

TO, PARKS, ROADWAYS, UTILITIES, GATEWAY SIGN, ETC

1 BONUS UNIT PER 500 LF OF PERIMETER FENCING

AND SOUTHERN PROPERTY LINE 414 LF FENCE

(EXCLUDING 83 AVE NE AND 40TH ST NE FRONTAGES)

ROAD A

5,394 SF

## LOT PROPOSAL SUMMARY

TOTAL NUMBER OF SINGLE FAMILY LOTS PROPOSED: 36 AVERAGE LOT SIZE: 4,843 SF (0.11 ACRES) SMALLEST LOT SIZE: 3,934 SF (0.09 ACRES) LARGEST LOT SIZE: 10,735 SF (0.25 ACRES) LOTS UNDER 5,000 SF = 28 LOTS

SEPARATELY.

4,044 SF

N 88'02'28" W 624.94'

25% TO TAKE ACCESS VIA AUTOCOURT = 7 HOMES - ACCESSED VIA AUTOCOURT - LOTS 3, 4, 5, 14, 15, 16, 17

\*\* LOT 6 IS ACCESS VIA AUTOCOURT AS WELL BUT IS OVER 5,000 SF SO IS NOT COUNTED IN CALCS.

## SITE DATA

SITE ADDRESSES: PARCEL A ADDRESS: 4003 83RD AVE NE PARCEL A TAX ACCOUNT#: 00590700021901 PARCEL B ADDRESS: NOT DESIGNATED PARCEL B TAX ACCOUNT#: 00590700021904 PARCEL C ADDRESS: 3929 83RD AVE NE PARCEL C TAX ACCOUNT#: 00590700023701 PARCEL D ADDRESS: 3911 83RD AVE NE

PARCEL D TAX ACCOUNT#: 00590700023702

# OPEN SPACE CALCLATIONS

RESIDENTS

PARKING

SITE AREA 289,329 SF (6.64 AC) ROW TO BE DEDICATED 77,762 SF TRACT 998 (PRIVATE ACCESS) 1.643 SF TRACT 997 (PRIVATE ACCESS) 2,900 SF 207,204 SF (4.61 AC) NET DEVELOPABLE AREA OPEN SPACE REQUIRED (15%) 31,054 SF 32.591 SF

OPEN SPACE PROVIDED (15%) ACTIVE OPEN SPACE REQUIRED (35%) ACTIVE OPEN SPACE PROVIDED (60%) PASSIVE OPEN SPACE PROVIDED (40%)

<sup>7</sup>√ √ ii **© 2022 BLUELINE** 

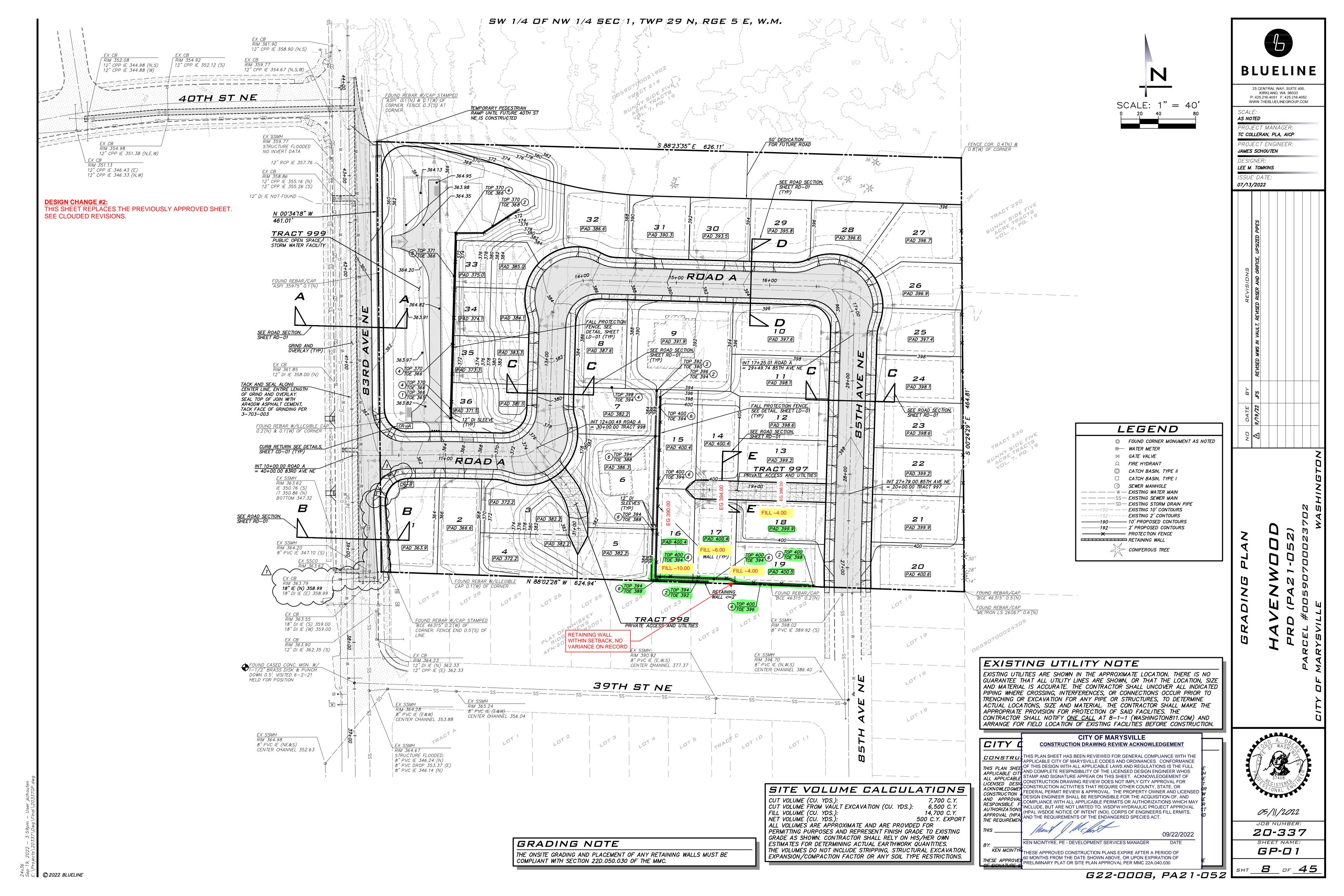
G22-0008, PA21-052

CONTRACTOR SHALL NOTIFY <u>ONE CALL</u> AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

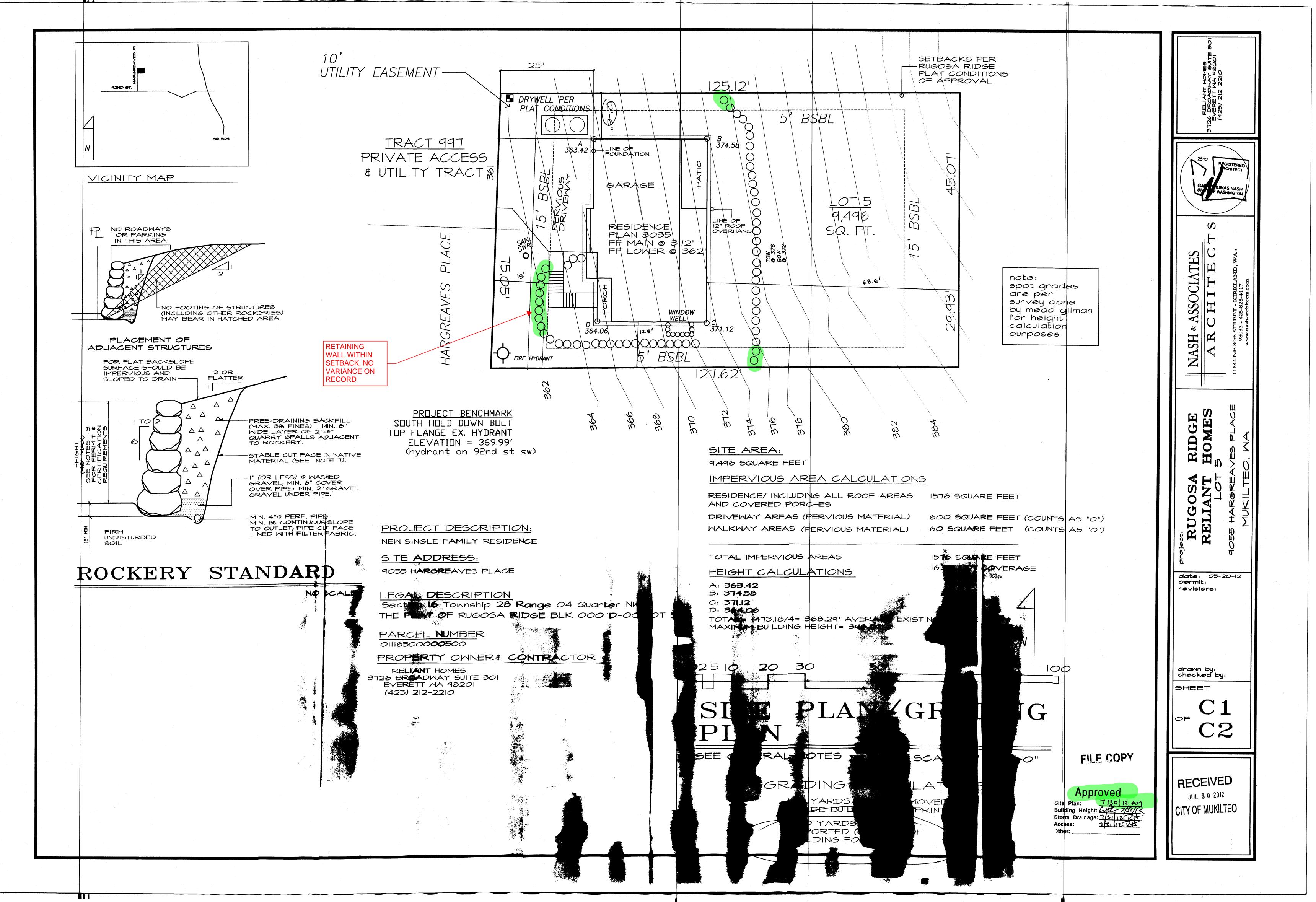


20-337

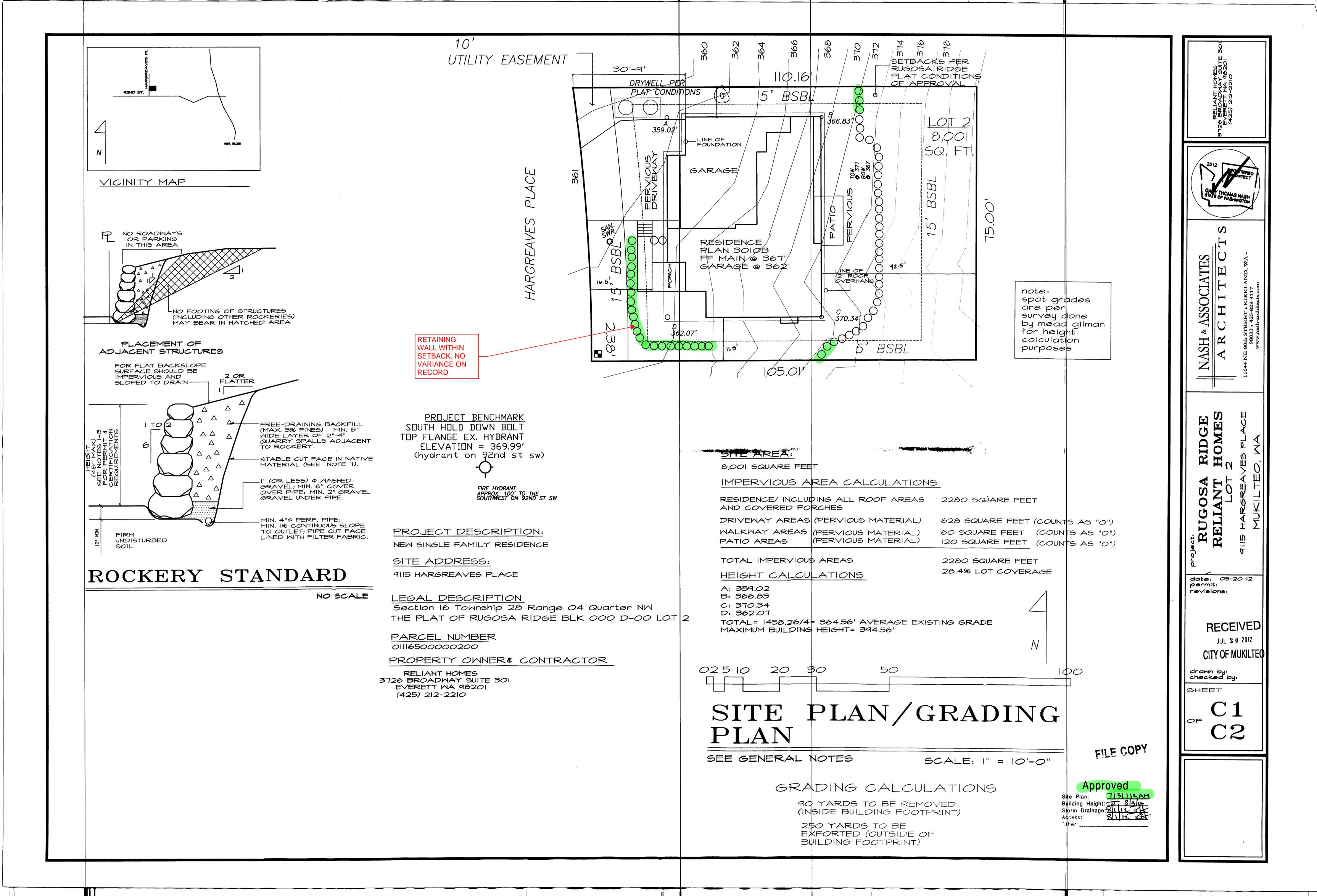
\_ of <u>45</u>



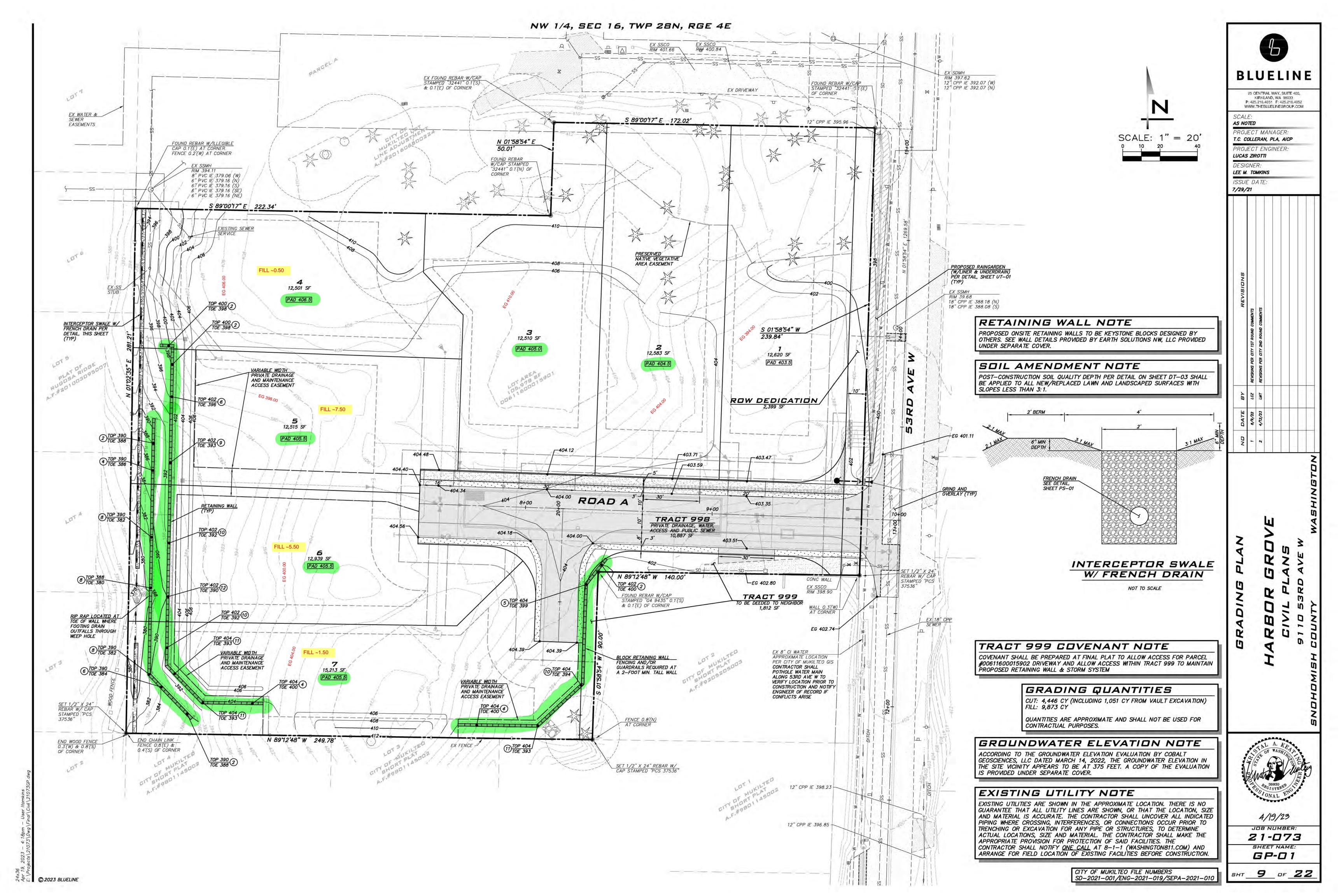




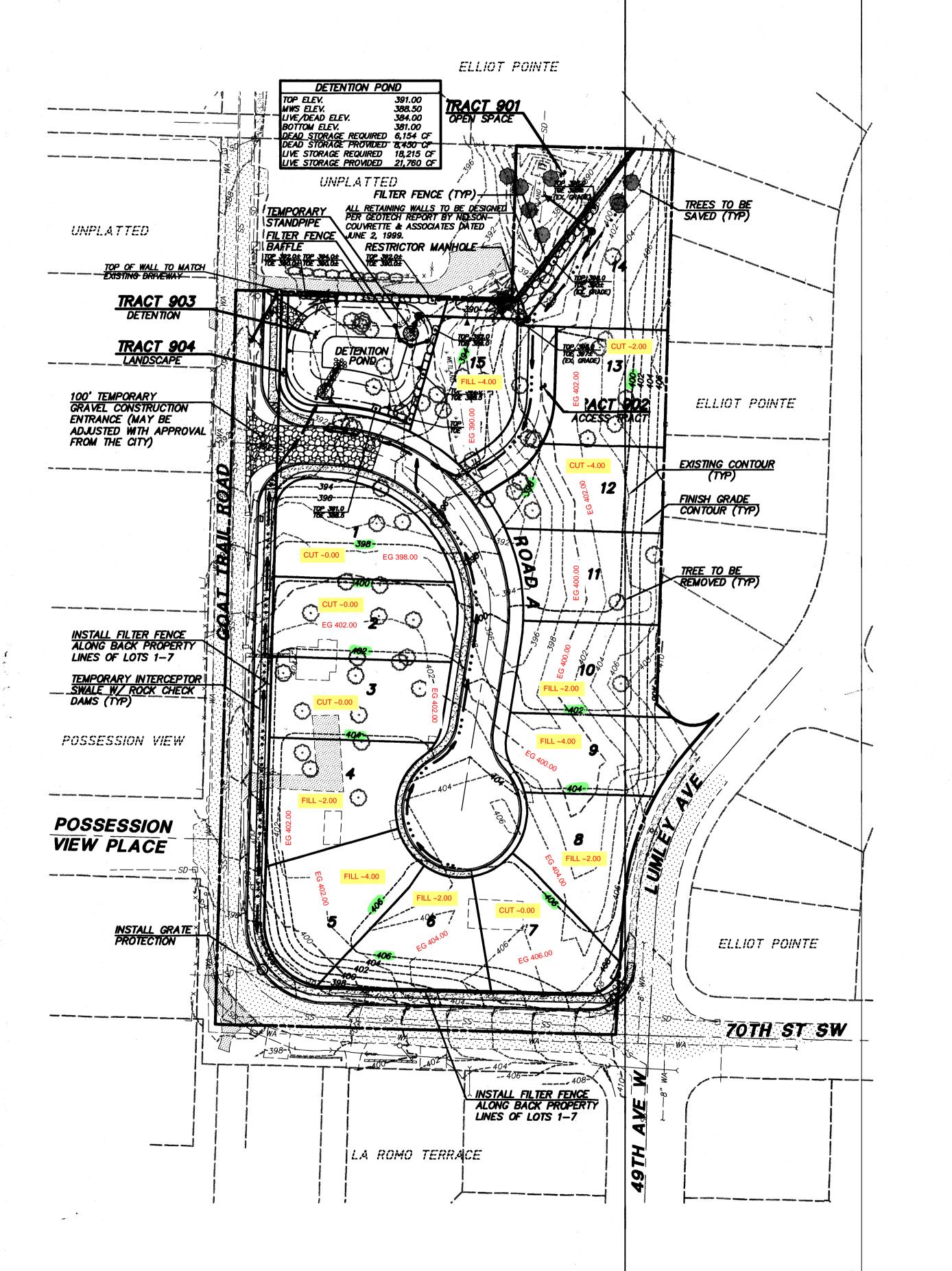


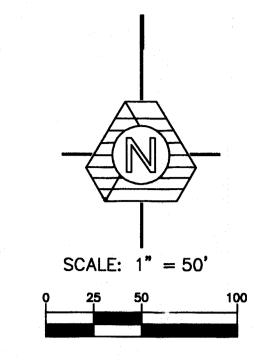










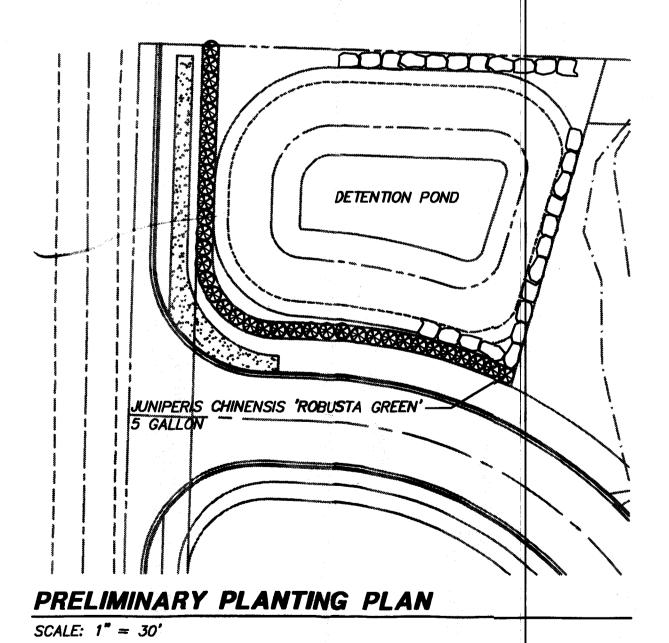


APPROXIMATE EARTHWORK QUANTITIES

**EXCAVATION** 8,300 CY **EMBANKMENT** 7,500 CY

SEE STORM DRAINAGE REPORT FOR INPUT VARIABLES REQUIRED SEDIMENT POND SURFACE AREA: SECTION II - 5.8.7 FROM D.O.E. MANUAL (SA) = 1.2 (Q<sub>10</sub>) / (V<sub>SED</sub>) = 1.2 (0.93 cfs) / (0.00096 ft/s) = 1,162.5 S.F. REQUIRED

POND PROVIDES APPROXIMATELY 6,500 S.F.
POND PROVIDES 4.5 FT SETTLING DEPTH
POND PROVIDES 3 FT SEDIMENT STORAGE DEPTH



CITY OF MUKILTED PUBLIC WORKS DEPARTMENT APPROVED FOR CONSTRUCTION for JOHN HASTIG, P.E.

TRIAD ASSOCIATES

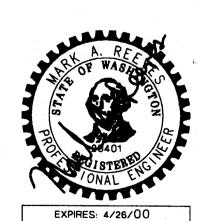
11814 115th Ave. NE Tel 425.821.5445 Tell Free 800.488.0756

DBH CH POR RANGE

MICHAEL WEINSTEIN PROJECT MANAGER

DESIGNED: GEOFF TAMBLE CADD: JENNIFER MORRISON CHECKED: MARK REEVES, P.E. DATE: 4/15/99

HORIZ.: 1"=50"/AS NOTED VERT.: N/A

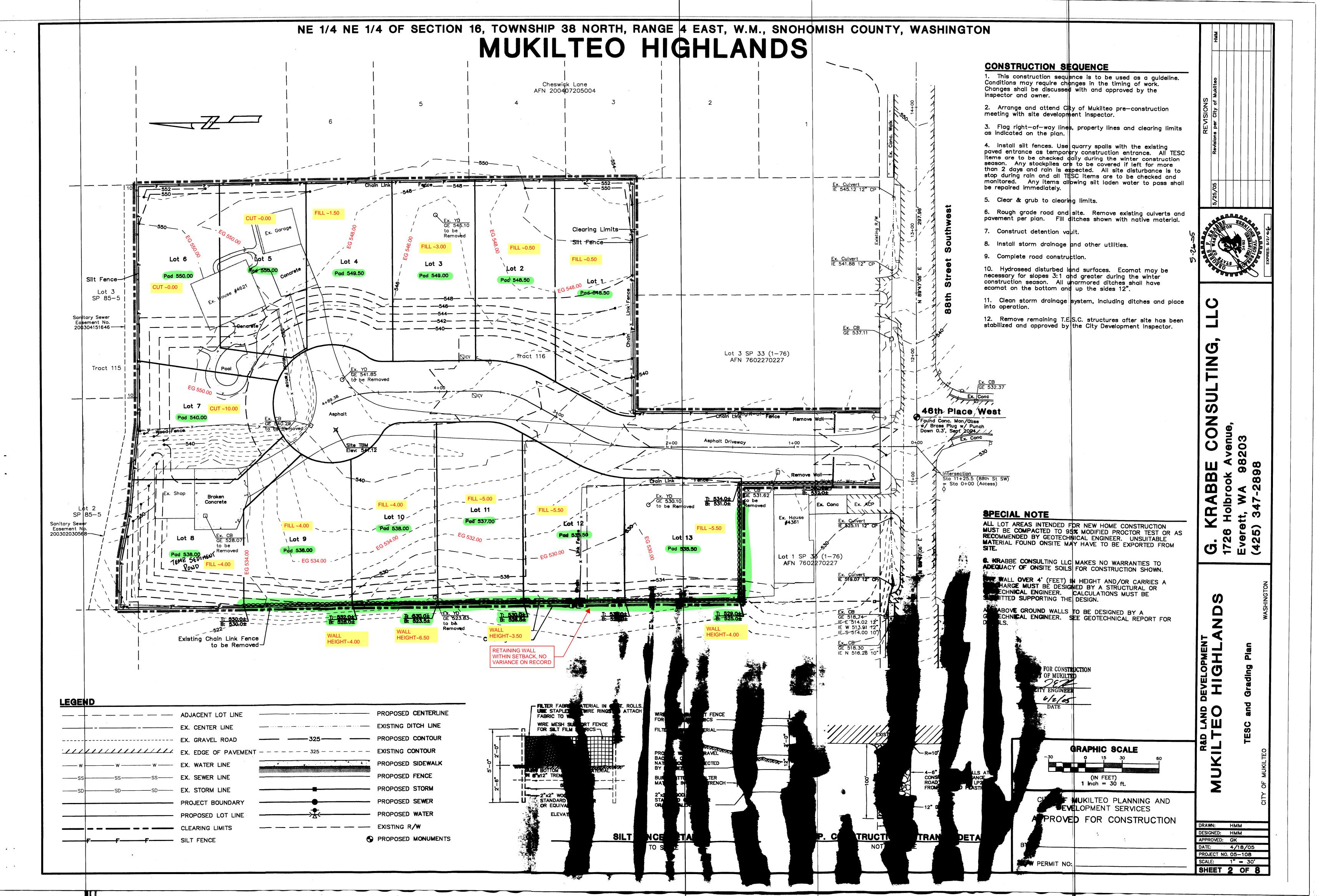


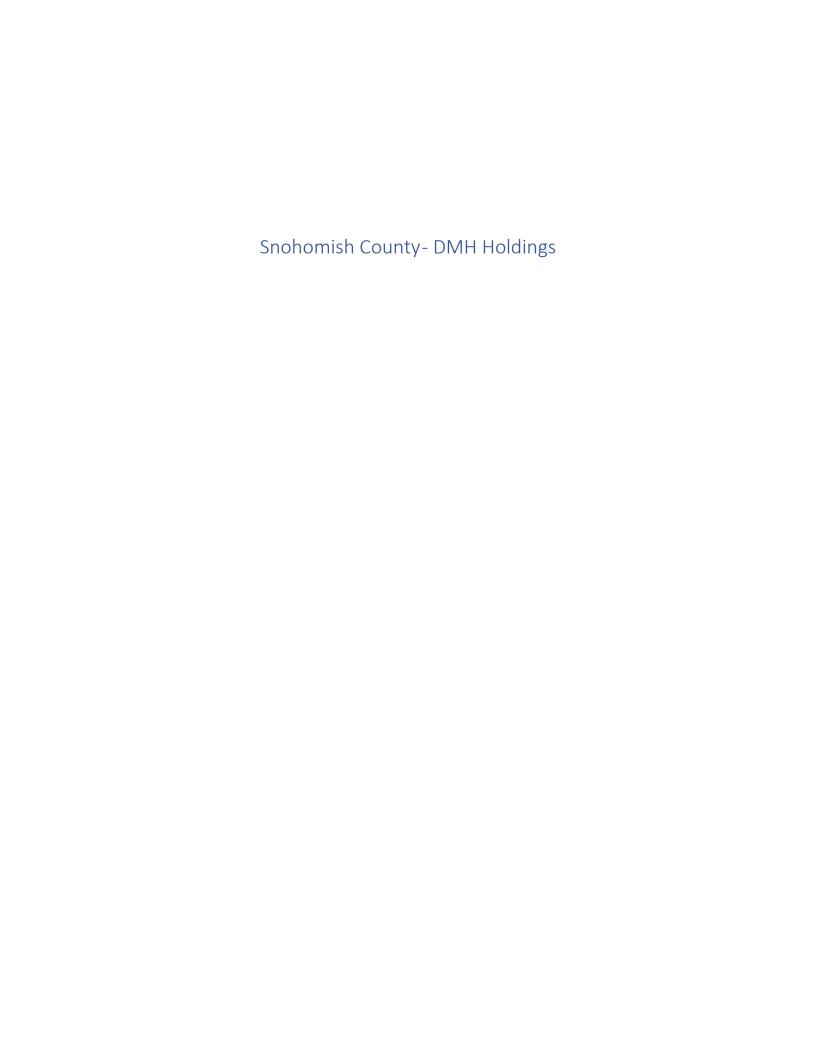
EXPIRES: 4/26/00 7/7/99

98-143

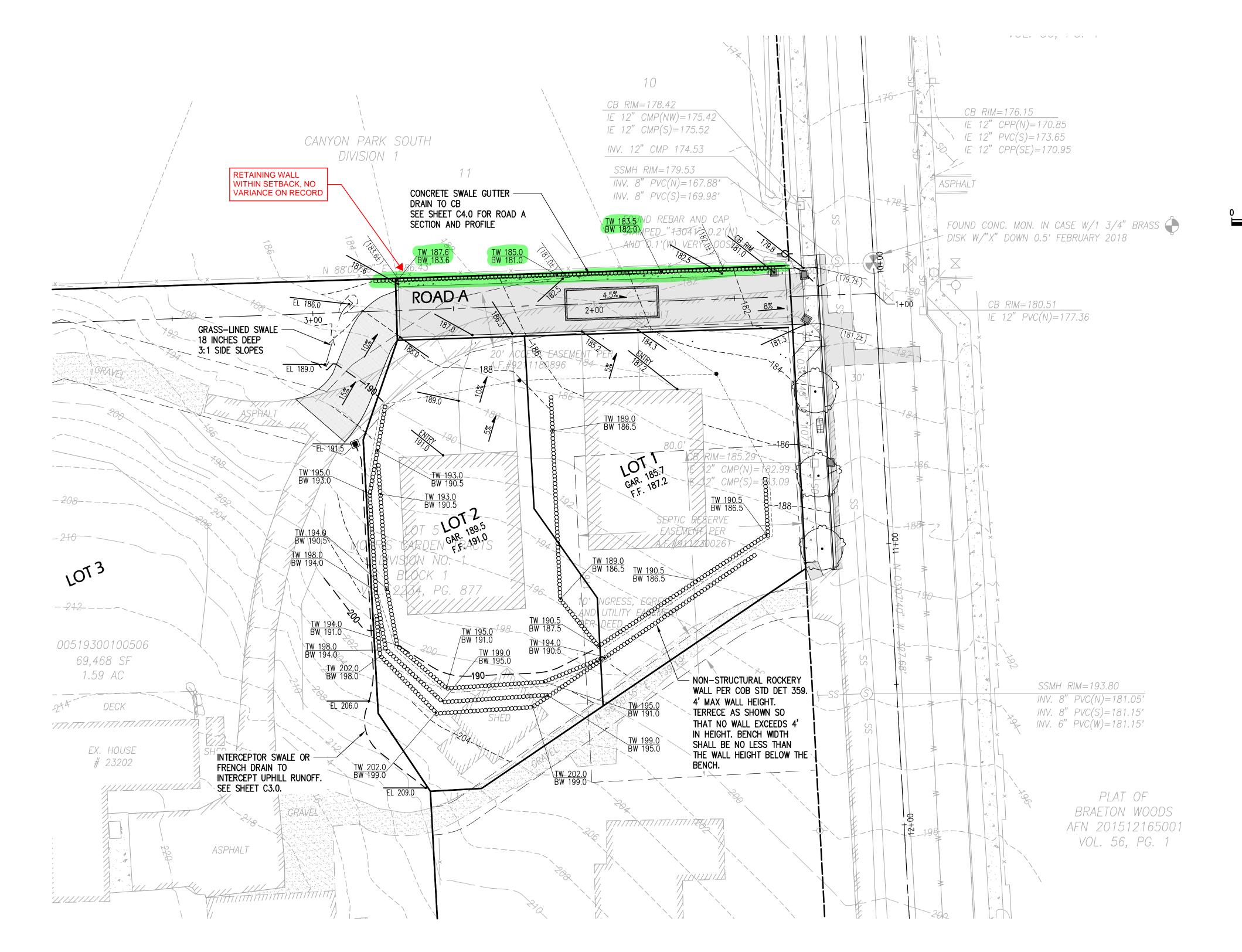
2 of 10 SHEET NUMBER

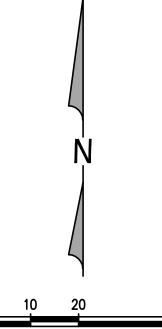






## A PORTION OF: SW 1/4 OF THE NE 1/4, SECTION 31, TOWNSHIP 27N, RANGE 5E, W.M. CITY OF BOTHELL, SNOHOMISH COUNTY, WASHINGTON





## **LEGEND**

PROPERTY LINE CONTOUR - MAJOR CONTOUR - MINOR SLOPE/GRADE SLOPE ARROW FLOWPATH ARROW PROPOSED SPOT ELEVATION EXISTING SPOT ELEVATION

RETAINING WALL, ROCKERY OR MSE DRAIN LINE

**PROJECT NOTES** 

- 1. ALL WORK AND MATERIALS SHALL CONFORM TO CURRENT "AGENCY" STANDARDS AND REQUIREMENTS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UTILITIES AND UTILITY LOCATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE OR DISTURBANCE TO EXISTING UTILITIES.
- 3. PROTECT ALL ADJACENT PROPERTY, FENCES, AND VEGETATION. PROTECT ALL STREET TREES, FIXTURES, POLES, UTILITY EQUIPMENT, AND OTHER APPURTENANCES ON PUBLIC PROPERTY.

## **EARTHWORK ESTIMATES**

950 CY

830 CY (CUT/EXPORT)

HOLDINGS,

7/3/2019

TPA

DESIGNED BY CHECKED BY C20134 **C2.0** 

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT THE ENGINEER TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

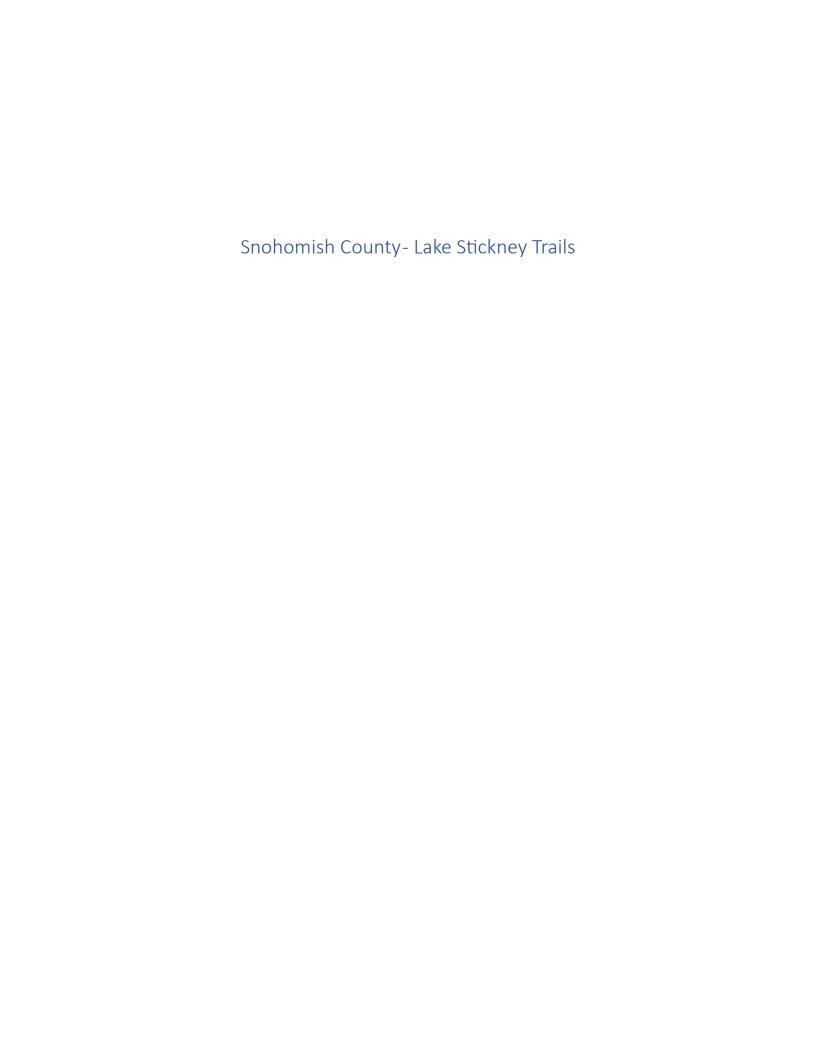
TOPOGRAPHIC SURVEY INFORMATION CONTAINED ON THESE PLANS HAS BEEN PROVIDED BY PACIFIC

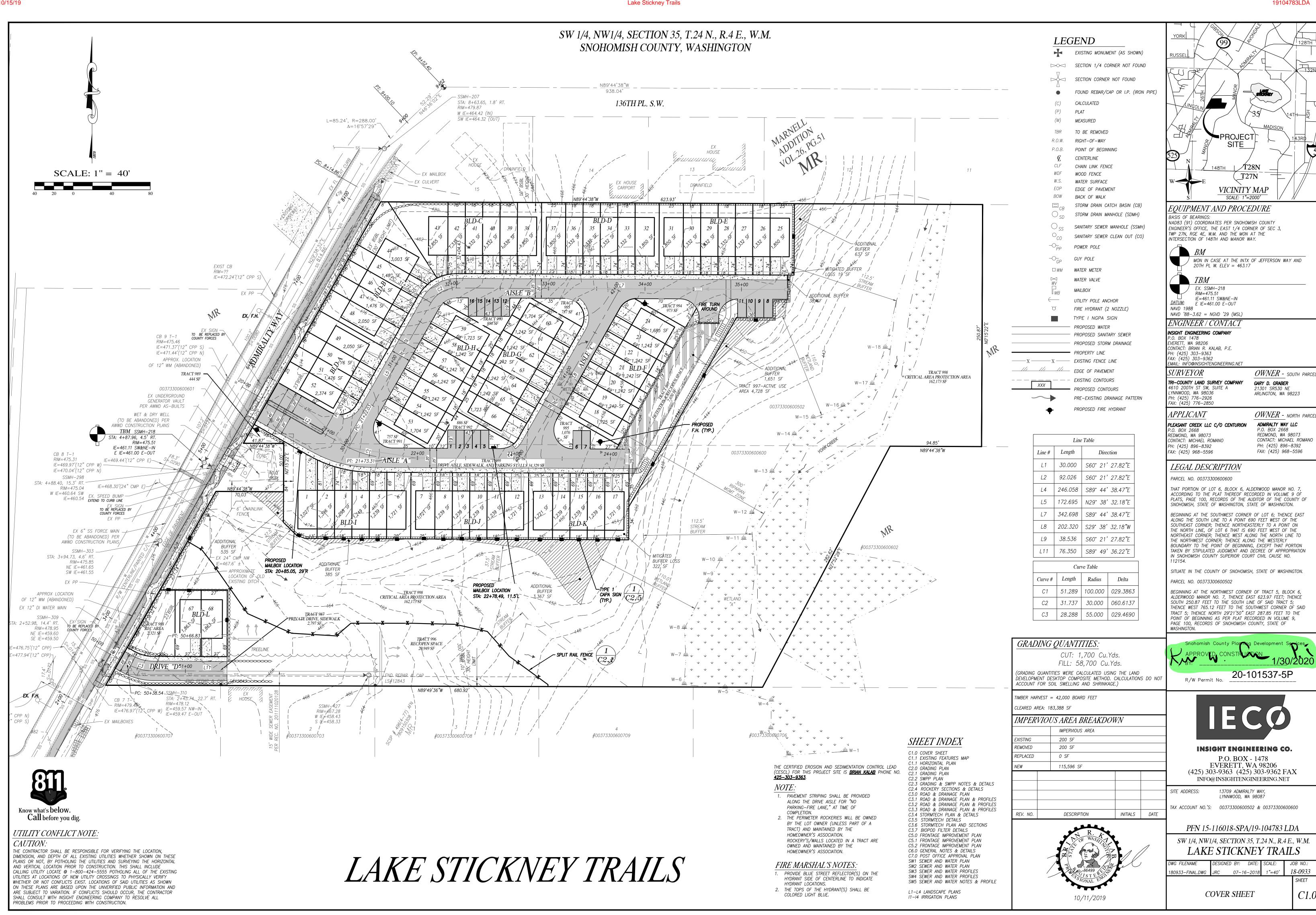
SURVEY DISCLAIMER:

COAST SURVEYS, INC. LDC, INC. (LAND DEVELOPMENT CONSULTANTS, INC.) ASSUMES NO LIABILITY AS TO THE ACCURACY AND COMPLETENESS OF THIS DATA. ANY DISCREPANCIES FOUND BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT IS NOTED IN THE FIELD SHOULD BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.









10/15/19 19104783LDA Lake Stickney Trails

