CARRIER SE 8TH SUBDIVISION

1240700135

1240700130

TRACT E

ACCESS/UTILITIES

TPN: 1240700078

14

20

TRACT G

RECREATION SPACE

PLATTED

15

18

TRACT F

PUBLIC ACCESS

10

R-6

1240700082

TPN:

1240700085

BURKE FARRARS

KIRKLAND #18

(BF TYP)

1240700083

KCSP 378045

RECORDING#:

7907021193

11240700125

N 88°40'14" W 969.41'

Road names will be provided by

determined. These need to be

specified in all applicable locations

TRACT D

CRITICAL AREA

TRACT H

OPEN SPACE/TREE RETENTION

5 88°30'19" E 968.81'

City as soon as they are

1240700120

TPN: 1240700205

ACCESS/UTILITIES

0424069007

CONDITIONS OF APPROVAL

GENERAL NOTES, DETAILS

BUFFER AVERAGING PLAN

TESC DETAILS & NOTES

GRADING & WALL PLAN

CURB RAMP DETAILS

EXISTING CONDITIONS & DEMO PLAN

ROCKERY DETAILS (BY GEOTECH)

ALIGNMENT & MAILBOX PLAN

32

TRACT B

JOINT USE DRIVEWAY/UTILITIES

· 31

30

TPN: 1240700210

SENSITIVE AREA TRACT

1473150020

CEDARWOOL

TPN:

1240700029

1240700031

TPN:

1240700032

BENCHMARK

13

1240700036

LANE

1240700040

34

RDAD

28

26

21

TRACT C

RECREATION SPACE

WITH PURILC STORM

DRAIN EASEMENT

0424069120

SHEET INDEX

CV-01

CA-01

GN-01

EC-01

BA-01

TP-01

TD-01

TD-02

GP-01

AL-01

CR-01

GD-02 TO GD-02

∙ТВМ−А 🕀

SE STH ST

(COLLECTOR ARTERIAL

COVER SHEET

& LEGEND

TESC PLAN

TESC DETAILS

PLATTED

29

BASIS OF BEARING MERIDIAN: WASHINGTON STATE PLAN COORDINATE SYSTEM -NORTH ZONE (NAD 83/91)

DATUM

ORIGINATING BENCHMARK

KING COUNTY MONUMENT DESIGNATION 1940. AS PUBLISHED IN WGS SURVEY DATA WAREHOUSE.

VERTICAL DATUM: NAVD '88

ELEVATION: 393.25

LEGAL DESCRIPTION

THE WEST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 25 NORTH, RANGE 6 EAST, W.M., IN KING COUNTY, WASHINGTON;

EXCEPT THE SOUTHERLY 30 FEET FOR COUNTY ROAD:

(ALSO KNOWN AS THE WESTERLY HALF OF TRACT 16 OF THE UNRECORDED PLAT OF BURKE & FARRAR'S KIRKLAND ADDITION, DIVISION NO. 18)

TOGETHER WITH THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 25 NORTH, RANGE 6 EAST. W.M.. IN KING COUNTY. WASHINGTON:

EXCEPT THE SOUTH 30 FEET AND THE WEST 30 FEET FOR ROADS;

(ALSO KNOWN AS TRACT 7 OF THE UNRECORDED PLAT OF BURKE & FARRAR'S ADDITION TO KIRKLAND DIVISION NO. 18)

SITUATE IN THE CITY OF SAMMAMISH, COUNTY OF KING, STATE OF

REFERENCES:

- RECORD OF SURVEY FOR THE CITY OF SAMMAMISH REC. IN VOL. 155 OF SURVEYS, PGS. 22 AND 22A, REC. NO. 20020910900001.
- 2. RECORD OF SURVEY FOR CHAFFEY HOMES, INC. REC. IN VOL. 167 OF SURVEYS, PG. 166, REC. NO. 20040209900002.

BENCHMARKS

ORIGINAL BM: TOP OF CONC MON WITH 3" BRASS DISC STAMPED "KING COUNTY SURVEY MONUMENT 1940" DOWN 0.75' IN CASE AT THE INTERSECTION OF SE 8TH ST. AND 212TH AVE. SE. SW CORNER SEC. 33, TWP. 25N., RGE. 6E., W.M. WGS SURVEY DATA WAREHOUSE POINT NO. 1429.

WEST CAP BOLT OF FIRE HYDRANT 8.5' NORTH OF NORTH EDGE OF ASPHALT, SE 8TH ST. AND ABOUT 140' EAST OF THE INTERSECTION OF SE 8TH ST. AND 214TH AVE. SE.

SCHEDULE B SPECIAL EXCEPTIONS

- SUBJECT TO THE NOTICE OF TAP OR CONNECTION CHARGES DUE OR SHALL BE DUE WITH DEVELOPMENT OR RE-DEVELOPMENT TO SAMMAMISH PLATEAU WATER AND SEWER DISTRICT AS RECORDED UNDER RECORDING NUMBERS: 9011150805, 9307301617, 9811051363. 9901150609, 20040414002865, 20041201000040, 20060126001770, 20110106000751, 20110106000800, 20110106000801, 20110106000802, 20130917002142, 0130917002143, 20130917002144 20130917002145, 20141201000777, 20141201000778, 20141201000779 AND 20141201000780.
- SUBJECT TO SEWER CAPACITY CHARGES LEVIED BY KING COUNTY AND/OR THE CITY OF SAMMAMISH DUE IN CONNECTION WITH THE DEVELOPMENT OF SAID PREMISES.
- 3. SUBJECT TO EXCEPTIONS AND RESERVATIONS IN DEED FROM WEYERHAEUSER TIMBER CO. UNDER REC. NO. 382528, RESERVING RIGHTS TO ALL ORES AND MINERALS.

NOTES

- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION EXISTING AT
- UNDERGROUND UTILITIES WERE LOCATED BASED ON THE 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 UTILITIES PRIOR TO
- 3. NO PROPERTY CORNERS WERE SET IN CONJUNCTION WITH THIS SURVEY.

SITE AREAS

LOT AREA:	176.578 SF	(4.05 AC)
	170,370 35	
ACCESS/UTILITY: (TRACT A)	2,154 SF	(0.05 AC)
J.U.D.T./UTILITIES: (TRACT B)	2,148 SF	(0.05 AC)
RECREATION SPACE: (TRACT C)	13,811 SF	(0.32 AC)
CRITICAL AREA: (TRACT D)	320,446 SF	(7.36 AC)
ACCESS/UTILITY: (TRACT E)	2,583 SF	(0.06 AC)
PUBLIC ACCESS: (TRACT F)	502 SF	(0.01 AC)
RECREATION SPACE: (TRACT G)	14,434 SF	(0.33 AC)
OPEN SPACE: (TRACT H)	30,943 SF	(0.71 AC)
ROW DEDICATION:	52,273 SF	(1.20 AC)
TOTAL SITE AREA:	615,872 SF	(14.14 AC)

DENSITY CALCULATIONS

GROSS AREA:	615,872 SF
*EXISTING CRITICAL AREAS & BUFFERS	305,102 SF
ROW DEDICATION:	52,273 SF
OTHER ROADS (TRACTS A & E)	4,737 SF

253,761 SF (5.83 AC) MAX DENSITY: 6 DU/AC X 5.83 AC = 34.98 UNITS PROPOSED UNITS: 35

*SEE SHEET EC-01

CR-02 CUL-DE-SAC DETAILS 15 RD-01 ROAD SECTIONS 16 CU-01 COMPOSITE UTILITY PLAN ROAD & STORM DRAINAGE PLAN RS-01 TO RS-04 21-25 RP-01 TO RP-05 ROAD PROFILES 26-27 ESD-01 TO ESD-02 ENTERING SIGHT DISTANCE SSD-01 STOPPING SIGHT DISTANCE 29 CH-01 CHANNELIZATION PLAN VT-01 30 WEST VAULT PLAN VT-02 **WEST VAULT SECTIONS & DETAILS** VT-03 32 EAST VAULT PLAN VT-04 EAST VAULT SECTIONS & DETAILS

SD-01 STORM FILTER / STORM DRAIN DETAILS SD-02 STORM DRAIN / LID NOTES & DETAILS 36-39 DT-01 TO DT-04 **DETAILS** 40-43 TR-01 TO TR-05 TREE RETENTION PLANS TR-05 TREE RETENTION CALC LS-01 TREE RESTORATION PLAN LS-02 VAULT TRACT PLANING PLANS LS-03 NOTES & PLANTING DETAILS FINAL MITIGATION PLAN

0424069142

0424069151

1-3 W1-W3 FINAL MITIGATION PLAN

RED-ROCK WALL DETAILS

ROADWAY B REDI-ROCK WALL PROFILE TYPICAL RED-ROCK SECTION DETAIL REDI-ROCK WALL DETAILS REDI-ROCK BLOCK LAYOUT DETAILS

STREET LIGHTING PLANS

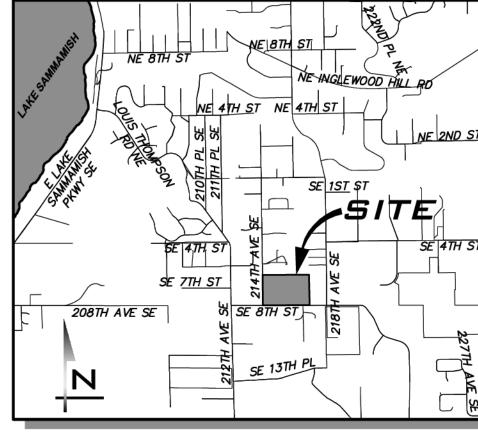
IL1-IL2 STREET LIGHTING PLANS

VESTING INFORMATION

PER HE DECISION, PROJECT VESTING DATE IS 2/2/2016. 2009 KCSWDM (LEVEL 3 DETENTION. SENSITIVE LAKE WQ.) APRIL 2000 INTERIM PUBLIC WORKS STANDARDS

U. S. POSTAL SERVICE APPROVED FOR MAILBOX LOCATION(S)

KENNETH STEVENS US POSTAL SERVICE (ORIGINAL SIGNATURE IN FILE) 04/17/2019



VICINITY MAP

WETLAND RESOURCES

9505 19TH AVE SE, SUITE 106 EVERETT, WA 98208

CONTACT: SCOTT BRAINARD

PHONE: (425) 337-3174

SURVEYOR

MEAD GILMAN & ASSOC.

WOODINVILLE, WA 98072

CONTACT: SHANE BARNES, PLS

P.O. BOX 289

(425) 486-1252

APPLICANT

TOLL BROTHERS, INC. 8815 122ND AVE NE, SUITE 200 KIRKLAND, WA 98033 CONTACT: JEFF PETERSON (425) 825-1955

CIVIL ENGINEER

PROJECT TEAM

THE BLUELINE GROUP 25 CENTRAL WAY, SUITE 400 KIRKLAND, WA 98033 CONTACT: BRETT K PUDISTS, PE (425) 250-7247

GEOTECH ENGR ROBINSON NOBLE 2105 SOUTH C STREET TACOMA. WASHINGTON CONTACT: RICK B POWELL, PE (253) 475-7711

ARBORIST

WASHINGTON FORESTRY CONSULTANTS, INC. 1919 YELM HWY SE, SUITE C OLYMPIA, WA 98501 CONTACT: GALEN WRIGHT (360) 943–1723

WETLAND CONSULTANT

UTILITY PURVEYORS

WATER SUPPLY:	SAMMAMISH PLATEAU WATER & SEWER DISTRICT	425-392-4931
SANITARY SEWER:	SAMMAMISH PLATEAU WATER & SEWER DISTRICT	425-392-4931
FIRE DISTRICT:	EASTSIDE FIRE AND RESCUE	425-313-3200
SCHOOL DISTRICT:	LAKE WASHINGTON #414	425-936-1200
POWER:	PUGET SOUND ENERGY	<i>253–437–6771</i>
GAS:	PUGET SOUND ENERGY	253-437-6771
CABLE:	COMCAST COMMUNICATIONS	<i>425–263–5353</i>
TELEPHONE:	FRONTIER COMMUNICATIONS	425-263-4023
PUBLIC WORKS INSP.	ECTION:	425-295-0625

SITE DATA

742 214TH AVE SE SAMMAMISH, WA TAX ACCOUNT NUMBERS: 1240700035 & 1240700086 EXISTING ZONING: PROPOSED ZONING: GROSS SITE AREA: 615,872 SF (14.14 AC) AVERAGE LOT SIZE: 5,030 SF MINIMUM LOT SIZE: 4,297 SF (LOT 15) REC SPACE REQUIRED: 35 X 390 = 13,650 SF REQUIRED REC SPACE PROVIDED: 27,799 SF (TRACT C + TRACT G) SETBACKS: STREET: GARAGE:

UTILITY BORE

INTERIOR:

FROM CAT:

SEE SEWER AND WATER PLANS, UNDER SEPARATE COVER, FOR DETAILS ON UTILITY BORING BENEATH TRACT D.

EROSION CONTROL SUPERVISOR

ROW2019-03272

CONTACT: AARON KOPET

Prior to commencement of site prep work: - issuance of a Building Permit for retaining walls of boring pits required, and

- detailed information on the proposed auger machine and operation prior must be submitted provided to the City

REVIEWED FOR CODE COMPLIANCE subject to field inspection and correction PPROVED WITH

PHONE: <u>(425)</u> 825-1955 EXT 124

CITY OF SAMMAMISH

APPROVAL BLOCK

CITY FILE No: SDP 2018-06254

UNDERGROUND UTILITY NOTE

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



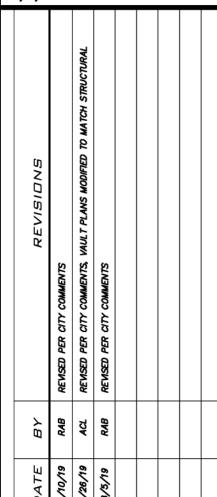
BLUELINE

WWW.THEBLUELINEGROUP.COM

AS NOTED PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER: BRETT K PUDISTS, PE DESIGNER: AARON C LANCE

ISSUE DATE: 8/5/2019





15-111

SHEET NAME: CV-01

_ OF _**48**

August 27, 2018 Page 23 of 26

This Preliminary Subdivision and associated Public Agency and Utility Exception are subject to compliance with all applicable provisions, requirements, and standards of the Sammamish Municipal Code, standards adopted pursuant thereto, and the following special conditions:

- Exhibit 49 is the approved preliminary plat (and supporting plans). Revisions to approved preliminary subdivisions are subject to the provisions of SMC 19A.12.040.
- 2. The Plattor or subsequent owner(s) shall comply with the payment of street impact fees, impact fees for park and recreational facilities, and school impact fees in accordance to SMC Chapters 14A.15, 14A.20, and 21A.105, respectively.
- The Plattor shall have site stripping work monitored by Tierra Right of Way Services, Ltd., or other comparable firm qualified to perform cultural resources assessments, during work performed on the east portion of the property. (See Exhibits 14:187 and 25.)
- If cultural resources are unearthed during the development process, immediately cease and desist ALL operations and contact the City of Sammamish, the Washington State Department of Archeology and Historic Preservation (DAHP) Historic Preservation Officer, regional Native American Tribes, and King County concerning the appropriate treatment of archaeological and historic resources. Do not resume work until appropriate approvals are received and the City of Sammamish has authorized development to resume. (See Exhibits 14:200 and 25:877 – 880.)
- No open trench utility crossings across Stream B and Wetland B shall be allowed. The project utility design shall be modified as follows:
 - a. For the gravity sewer system, the Plattor shall work with SPWater to design a gravity sewer line across Tract D that is constructed by auger boring. This provides the preferred system for long-term operation and maintenance by a construction method that avoids wetland and stream impacts. The bore casing should be at least 36-inch diameter to allow clearing from within the casing any obstructions encountered. The boring machine should be of sufficient size/power to be successful in the existing soil conditions.
 - For the water system, the Plattor shall work with SPWater to either:
 - Provide dead-ends at Road A and Road B (no crossing of Stream B, Wetland B, or Tract D); or
 - Provide a looped system across Tract D with the water main co-located within the casing used for the sewer line. Co-locating the utilities will require mitigation measures in accordance with Section C1-9.1.2 of the Washington State Department of Ecology Criteria for Sewage Works Design. An engineer should be consulted to determine the minimum casing size based on the mitigation measures, soil conditions, grade constraints, carrier pipe material, outer diameter of carrier pipe casings, and line and grade tolerances of the auger bore; or
 - Provide a looped system across Tract D with the water main directionally drilled under Stream B and Wetland B and separated from the casing in which the sewer line is located.

Site Development Permit Special Conditions:

- A final updated Critical Areas Mitigation Plan in substantial conformance with Exhibit 50 shall be prepared in support of construction permits. The final Critical Areas Mitigation Plan shall include a final accounting of all temporary and permanent impacts and shall provide complete mitigation plans including provision for contingency, maintenance, and monitoring associated with required mitigation and restoration measures.
- Public Works variations have been approved. (Exhibit 40)
- SE 8th Street is classified as a collector arterial with 60 feet of existing right-of-way. Half-street frontage improvements and a right-of-way dedication varying from 2.5 to 3.5 feet in width shall be provided along the development frontage with SE 8th Street consistent with Exhibit 49, Sheet 4 of
- 214th Avenue SE is classified as a local road with 60 feet of existing right-of-way. Half street frontage improvements shall be provided on 214th Ave SE consistent with the local road standard. No right-of-way dedication is required along 214th Avenue SE.
- 214th Avenue SE shall be re-graded as required to accommodate entering sight distance as shown in the Entering Sight Distance (ESD) diagram exhibit; or a variation request may be submitted by the Plattor to address compliance with entering sight distance requirements.
- Illumination shall be provided on SE 8th Street consistent with the PWS standards for average foot candle and uniformity for a collector road. The pole shall be powder coated black steel with full cut off luminaire consistent with WSDOT standard J-28.10-01 Type 1 Davit Mast Arm with fixed base.
- Illumination shall be provided on 214th Avenue SE and within the internal plat roads consistent with the City's standards for average foot candles and uniformity for a local road. Luminaires shall be full cut off. Pole type and style shall be approved by Public Works.
- 13. Individual lot flow control BMPs shall be required consistent with the applicable drainage standards.
- Drainage plans, Technical Information Reports, and analysis shall comply with the applicable drainage manual, the City of Sammamish Surface Water Design Manual Addendum, the City of Sammamish Stormwater Management Comprehensive Plan, and the East Lake Sammamish Basin Plan.
- 15. The Plattor shall make every reasonable effort to preserve the two trees marked for retention on Exhibit 86 located in the northwest corner of Proposed Lot 17.

Prior to or Concurrent with Final Plat:

- 16. Right-of-way dedication on SE 8th Street shall be 2.5 to 3.5 feet in width along the plat frontage consistent with Exhibit 49, Sheet 4 of 13, and subject to the approved Public Works Standards variations.
- 17. The plat internal local roads shall be dedicated as right-of-way.
- 18. Off-site improvements, including all frontage improvements on SE 8th Street and 214th Avenue SE, shall be fully installed and approved.
- 19. Private roads shall be constructed under the site development permit.
- 20. Driveway curb cuts shall be completed prior to final plat. Any joint use driveways shall be bonded for or constructed under the Site Development permit.
- 21. A public stormwater easement shall be provided for access, inspection, maintenance, repair, and replacement of the detention and water quality facilities within Tract C and Tract G.
- 22. Off-site stormwater easements required by the stormwater design shall be recorded.

Conditions to appear on the face of the final plat (italicized words to appear verbatim):

- 23. Trees retained in accordance with SMC 21A.37 shall be identified on the face of the final plat for retention. Trees shall be tagged in the field and referenced on the face of the final plat with the applicable tag number.
- 24. Trees identified on the face of this plat have been retained pursuant to the provisions of Chapter 21A.37 SMC. Retained trees are subject to the tree protection standards of Chapter 21A.37 SMC. Removal of these trees is prohibited unless the tree is removed to prevent imminent danger or hazard to persons or property, and may be subject to a clearing and grading permit approved by the City of Sammanish. Trees removed subject to this provision shall be replaced in compliance with Chapter 21A.37 SMC.
- 25. Covenant and easement language pertaining to individual lot and tracts with flow control BMPs shall be shown on the face of the final plat. Public Works shall approve the specific language prior to final plat.
- 26. Unless located within a recreation tract and public easements provided, all Surface Water Management Facilities required for this subdivision shall be contained within a separate tract of land and shall be dedicated to the City of Sammamish for inspection, maintenance, operation, repair, and replacement. Language to this effect shall be shown on the face of the final plat.
- Maintenance of all landscape strips along the plat roads shall be the responsibility of the Homeowners Association or adjacent property owners. Under no circumstances shall the City bear any maintenance responsibilities for landscaping strips created by the plat.
- Maintenance of landscaping atop the stormwater vaults shall be the responsibility of the Homeowners Association.
- Individual lot flow control BMP's in accordance to the applicable drainage manual shall be provided with each single family residential building permit unless otherwise incorporated into the subdivision site development plans.
- Maintenance of illumination along all local and private roads shall be the responsibility of the Homeowners Association or jointly shared by the owners of the development.
- 31. All building permits shall be subject to the applicable drainage manual to determine the best management practices for all surface water runoff. All connections of roof drains shall be constructed and approved prior to final building inspection approval.

Prior to City Acceptance of Improvements:

32. Prior to acceptance into the Maintenance and Defect period, project close-out documents including the final acceptance construction punch list, as-builts, and final corrected Technical Information Report shall be submitted to Public Works for approval.

p:\admin services\deputy city clerk\hearing examiner\2018\12 - carrier prelimary subd\psub2016-00026i.doc



801 - 228th Avenue SE • Sammamish, WA 98075-9509 Phone: 425-295-0500 • Fax: 425-295-0600 • www.sammamish.us

February 27, 2017

Brett Pudists, P.E. Project Manager The Blueline Group 25 Central Way, Suite 400 Kirkland, WA 98033

SUBJECT: Carrier Subdivision PSUB2016-00026 **Public Works Approval of Variation Request**

Dear Mr. Pudists:

The Public Works Department has received your request for variation from the Interim Public Works Standards (PWS) in your letter dated September 29, 2016 (the "Request").

Variation from PWS Figure 01-05 Local Road Section

The Sammamish Municipal Code Chapter 14.01 adopts the Interim Public Works Standards and authorizes the Public Works Director to administratively amend the standards to allow for changes in street design. The Interim Public Works Standards was additionally adopted by City Ordinance 2000-060 and later the local road standard was updated and adopted by City Ordinance 2005-191. As such, under the review authority granted by the Interim Public Works Standards Section 10.170, a variation to the following standard is approved:

• PWS Table I Minimum Public Street Design Standards and PWS Figure 01-05 Local Road Standard (both as modified by City Ordinance 2005-191)

Public Works will allow the following variation along the internal plat road identified as Road A and a portion (as depicted on attached Exhibit) of the internal plat road identified as Road B:

- 28-foot pavement width
- No Parking signs on one side
- 5.5-foot from behind back of sidewalk to edge of ROW on each side

This local road cross section is consistent with direction from the City Council and environmental considerations of promoting low impact development where feasible. The criteria on which approvals for variations to the Interim Public Works Standards, including safety, environmental considerations, appearance, function, and maintainability have been examined and are fully satisfied. This variation is based on my sound engineering judgment and is in the best interest of the public.

Variation from PWS.15.110 Street Frontage Improvements - Collector Arterial

The Sammamish Municipal Code Chapter 14.01 adopts the Interim Public Works Standards and authorizes the Public Works Director to administratively amend the standards to allow for changes in street design. The Interim Public Works Standards was additionally adopted by City Ordinance 2000-060. As such, under the review authority granted by the Interim Public Works Standards Section 10.170, a variation to the following standard is approved:

• PWS.15.110 Street Frontage Improvements

Public Works will allow the following variation on the frontage along SE 8th Street between the 214th Avenue SE intersection and the intersection with the road designated as Road B in the preliminary plat plan:

- 24.5-foot pavement width from centerline of right-of-way
- Elimination of landscape strip
- 2.5-foot right-of-way dedication inclusive of a 1.5-foot added width north of sidewalk for street lights and utility poles

This collector arterial road cross section is consistent with direction from the City Council and environmental considerations of both protecting significant trees on the south side of SE 8th Street and protecting the critical areas on the north side of SE 8th Street along this portion of the project frontage of this roadway. The criteria on which approvals for variations to the *Interim* Public Works Standards, including safety, environmental considerations, appearance, function, and maintainability have been examined and are fully satisfied. This variation is based on my sound engineering judgment and is in the best interest of the public.

Summary

The variations listed above are approved as noted and shall be incorporated into the preliminary subdivision approval. This variation shall not be precedence setting and shall be reviewed for consistency with all criteria under SMC 21A Development Code. All final engineering design elements will be reviewed with the required permits for this project.

Attachments:

Sammamish Variation Verification Form Letter of a Roadway Variance Request for Carrier

cc: Haim Strasbourger. P.E., Development Review Engineer Doug McIntyre, Senior Planner Development Review File

CITY OF SAMMAMISH

APPROVAL BLOCK

ANNING DEPT. APPROVAL

REVIEWED FOR CODE COMPLIANCE per 13.20 SMC, 14.01 SMC, and 16.15 SM subject to field inspection and correction

UNDERGROUND UTILITY NOTE

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

BLUELINE

25 CENTRAL WAY, SUITE 400. KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM

SCALE:

AS NOTED PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER: BRETT K PUDISTS, PE

DESIGNER: AARON C LANCE

ISSUE DATE:

8/5/2019 | B | B | A - | a | b

0

8/5/19

15-111 SHEET NAME:

CA-01

_ of **_48**

SHALL BE AT NO ADDITIONAL COST OR LIABILITY TO THE CITY OF SAMMAMISH. 2. THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO THE CITY OF SAMMAMISH PUBLIC WORKS DEVELOPMENT REVIEW CHECKLIST. ANY DEVIATION FROM ADOPTED STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE CITY IN WRITING PRIOR TO CONSTRUCTION.

3. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE AN APPROVAL OF UTILITIES NOT OWNED BY THE CITY (E.G. DOMESTIC WATER CONVEYANCE, SEWER CONVEYANCE, GAS, ELECTRICAL, ETC.).

4. PRIOR TO ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRECONSTRUCTION MEETING SHALL BE HELD BETWEEN THE CITY OF SAMMAMISH, THE APPLICANT(S), AND THE APPLICANT'S CONSTRUCTION REPRESENTATIVE.

5. A COPY OF THESE APPROVED PLANS SHALL BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

6. CONSTRUCTION HOURS ARE 7:00 AM TO 8:00 PM MONDAY THROUGH FRIDAY AND 9:00 AM TO 6:00 PM ON SATURDAYS. WORK IS NOT ALLOWED ON SUNDAYS AND SOME HOLIDAYS IN ACCORDANCE WITH SMC 16.05.030.

7. IT SHALL BE THE APPLICANT'S/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY CONSTRUCTION EASEMENTS BEFORE INITIATING ANY OFF-SITE WORK.

8. VERTICAL DATUM SHALL BE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988) UNLESS OTHERWISE APPROVED BY THE CITY OF SAMMAMISH. HORIZONTAL DATUM SHALL BE IN THE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, USING NORTH AMERICAN DATUM OF 1983 (NAD 83 (1991)) UNLESS OTHERWISE APPROVED BY THE CITY.

9. DEWATERING (GROUNDWATER) SYSTEM CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT WSDOT STANDARD SPECIFICATIONS.

10. OPEN CUTTING OF ROADWAYS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE CITY AND NOTED ON THESE

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS. SAFETY DEVICES. PROTECTIVE EQUIPMENT. FLAGGERS. AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE. HEALTH. AND SAFETY OF THI PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR, ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL APPLY. WORK IN RIGHT-OF-WAY IS NOT AUTHORIZED UNTIL A TRAFFIC CONTROL PLAN IS

12. ANY CHANGES TO THE APPROVED PLANS MUST BE SUBMITTED TO THE CITY IN WRITING. NO CONSTRUCTION ON THESE CHANGES SHALL BEGIN UNTIL APPROVED BY THE CITY.

13. PER RCW SECTION 19.122, CALL 811 BETWEEN TEN (10) AND TWO (2) BUSINESS DAYS BEFORE BEGINNING EXCAVATION WHERE ANY UNDERGROUND UTILITIES MAY BE LOCATED. FAILURE TO DO SO COULD MEAN BEARING

14. APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING UTILITY LOCATIONS WHETHER OR NOT THESE UTILITIES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXERCISE ALL CARE TO AVOID DAMAGE TO ANY UTILITY. IF CONFLICTS WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY PUBLIC WORKS CONSTRUCTION INSPECTOR AND ANY CHANGES REQUIRED SHALL BE APPROVED BY THE CITY OF SAMMAMISH PUBLIC WORKS DEPARTMENT PRIOR TO COMMENCEMENT OF RELATED CONSTRUCTION ON THE PROJECT. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT UTILITY LOCATES ARE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.

15. ALL DAMAGES INCURRED TO PUBLIC AND/OR PRIVATE PROPERTY BY THE CONTRACTOR DURING THE COURSE OF CONSTRUCTION SHALL BE PROMPTLY RÉPAIRED TO THE SATISFACTION OF THE PUBLIC WORKS CONSTRUCTION INSPECTOR BEFORE PROJECT APPROVAL AND/OR THE RELEASE OF THE PROJECT'S PERFORMANCE BOND.

16. ALL LANDSCAPED AREAS OF THE PROJECT SHALL INCLUDE A MINIMUM OF 8-INCHES OF COMPOSTED SOIL AMENDMENT ATOP A MINIMUM OF 4-INCHES SCARIFIED SOIL.

17. NO FINAL CUT OR FILL SLOPE SHALL EXCEED SLOPES OF TWO (2) HORIZONTAL TO ONE (1) VERTICAL WITHOUT STABILIZATION BY ROCKERY OR BY A STRUCTURAL RETAINING WALL, UNLESS DESIGNED AND COMPLETED UNDER THE

18. THESE PLANS ARE APPROVED FOR STANDARD ROAD AND DRAINAGE IMPROVEMENTS ONLY. STRUCTURES SUCH AS BRIDGES, VAULTS, AND RETAINING WALLS REQUIRE ADDITIONAL PERMITS FROM THE CITY PRIOR TO CONSTRUCTION.

19. NO MATERIALS OR EQUIPMENT SHALL BE PLACED OR STORED ON PUBLIC RIGHT—OF—WAY AT ANY TIME. 20. ANY CONSTRUCTION RESULTING IN A NEED FOR TRAFFIC CONTROL WITHIN THE PUBLIC RIGHT-OF-WAY SHALL

REQUIRE A RIGHT-OF-WAY PERMIT APPROVED BY THE CITY. 21. CONSTRUCTION NOISE SHALL BE LIMITED TO THE CONSTRUCTION HOURS AS STATED IN SMC 16.05.030.

ROADWAY PLAN NOTES

1. ALL CONCRETE FOR SIDEWALKS AND CURB AND GUTTER MUST BE 4,000-PSI MINIMUM AND FOUR (4) INCHES THICK WHEN NOT VEHICLE ACCESSIBLE AND SIX (6) INCHES THICK WHEN ACCESSIBLE TO VEHICLES OR EIGHT (8) INCHES THICK IN COMMERCIAL DRIVEWAYS.

2. IN THE CASE OF NEW ROAD CONSTRUCTION OR RECONSTRUCTION REQUIRING MAILBOXES TO BE MOVED OR REARRANGED. THE APPLICANT/CONTRACTOR SHALL COORDINATE WITH THE U.S. POSTAL SERVICE FOR THE NEW LOCATION OF THE MAILBOX STRUCTURE, AND SHALL NOTIFY THE CITY PUBLIC WORKS CONSTRUCTION INSPECTOR AND MAILBOX USER(S) OF THE CHANGE A MINIMUM OF TWO (2) WEEKS BEFORE IT OCCURS.

3. ANY ROADWAY SIGNAGE OR STRIPING THAT IS DAMAGED, REMOVED, OR TEMPORARILY RELOCATED BY THE CONTRACTOR SHALL BE RESTORED TO MEET THE CURRENT CITY OF SAMMAMISH PUBLIC WORKS STANDARDS.

4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE TEMPORARY TRAFFIC CONTROL TO ENSURE TRAFFIC SAFETY DURING CONSTRUCTION ACTIVITIES. THEREFORE, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY PUBLIC WORKS CONSTRUCTION INSPECTOR AT LEAST 48 HOURS PRIOR TO STARTING ANY WORK IN THE RIGHT-OF-WAY. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) OR AS APPROVED BY THE TRAFFIC ENGINEER.

5. WHERE A SIDEWALK IS TO BE CONSTRUCTED ABOVE A SLOPE OR ADJACENT TO A ROCKERY OR RETAINING WALL WHERE THE LOWEST FINISHED ELEVATION OF THE SLOPE, ROCKERY, OR RETAINING WALL IS TO BE THIRTY INCHES (30") OR MORE BELOW THE FINISHED ELEVATION OF THE SIDEWALK, A SAFETY RAILING SHALL BE REQUIRED WHEN: (A) THE VERTICAL WALL FACE IS LESS THAN FOUR FEET IN HORIZONTAL DISTANCE FROM THE NEAR SIDE FACE OF THE FACILITY: (B) THE VERTICAL WALL FACE IS GREATER THAN FOUR FEET HORIZONTALLY TO THE NEAR SIDE FACE OF THE FACILITY AND THE SLOPE TO THE WALL IS STEEPER THAN 1V:3H; (C) THE SLOPES ADJACENT TO THE FACILITY AVERAGE GREATER THAN 1V: 2H. SEE FIGURE 15.3 OF THE PUBLIC WORKS STANDARDS.

6. DEAD-END STREETS SHALL BE SIGNED IN ACCORDANCE WITH THE MUTCD. WHERE A ROADWAY CONNECTION IS PLANNED, SIGNAGE SHALL BE PROVIDED TO DESIGNATE A FUTURE ROADWAY EXTENSION.

7. SIDEWALK AND CURB AND GUTTER CANNOT BE POURED MONOLITHICALLY. THERE MUST BE A FULL DEPTH EXPANSION

8. THE DEVELOPER SHALL COORDINATE WITH PUGET SOUND ENERGY FOR THE DESIGN AND INSTALLATION OF STREETLIGHTS ON ALL NEWLY CREATED PUBLIC ROADWAYS AND EXISTING ROADWAYS THAT ARE LOCAL STREETS. NEW STREETLIGHTS ON ARTERIAL STREETS SHALL BE DESIGNED BY CONSULTANT ENGINEER AND APPROVED BY THE

9. WHEN AN EXISTING ROADWAY IS TO RECEIVE A HALF-STREET OVERLAY, THE EXISTING ROADWAY MUST BE COLD PLANED AT THE EDGE OF THE GUTTER AND CENTERLINE. WHEN THE EXISTING ROADWAY IS TO RECEIVE A FULL-STREET OVERLAY, IT MUST BE COLD PLANED FOR THE FULL WIDTH OF THE ROADWAY.

10. ALL NEW CHANNELIZATION AND SIGNAGE SHALL BE PROVIDED AND LAID OUT CONSISTENT WITH THE CITY OF SAMMAMISH PUBLIC WORKS TRAFFIC ENGINEER APPROVAL. CONTACT THE CITY TRAFFIC ENGINEER AT LEAST ONE (1) WEEK PRIOR TO SCHEDULING CHANNELIZATION.

11. ALL NEW SIGNS REQUIRED IN THE PUBLIC RIGHT-OF-WAY MUST BE INSTALLED BY THE APPLICANT/CONTRACTOR PER CITY OF SAMMAMISH PUBLIC WORKS STANDARDS. PROCUREMENT AND INSTALLATION SHALL BE PAID FOR BY THE APPLICANT/CONTRACTOR. TO INITIATE SIGNAGE INSTALLATION, CONTRACTOR SHALL CONTACT THE PUBLIC WORKS INSPECTOR A MINIMUM OF SIX (6) WEEKS PRIOR TO FINAL PLAT/FINAL ACCEPTANCE. TEMPORARY STREET SIGNS MAY BE REQUIRED FOR INTERNAL PLAT ROADS FOR EMERGENCY VEHICLE ACCESS. ANY NO PARKING SIGNS SHALL BE INSTALLED PRIOR TO FINAL PLAT.

12. WHEN INSTALLING NEW SIDEWALK, THE AREA BEHIND THE SIDEWALK MUST BE GRADED SO THAT SURFACE WATER DOES NOT DRAIN OVER THE SIDEWALK.

13. ANY EXISTING PUBLIC IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED PRIOR TO RELEASE OF MAINTENANCE AND DEFECT.

14. OPEN CUT ROAD CROSSINGS FOR UTILITY TRENCHES ON EXISTING TRAVELED ROADWAY SHALL BE BACKFILLED ONLY WITH 5/8" MINUS CRUSHED ROCK AND MECHANICALLY COMPACTED (UNLESS OTHERWISE APPROVED BY THE CITY). FOR STREETS CLASSIFIED AS ARTERIALS, BACKFILL FOR CROSSINGS SHALL BE CDF. CUTS INTO THE EXISTING ASPHALT SHALL BE NEAT LINE CUT WITH SAW OR JACKHAMMER IN A CONTINUOUS LINE. A TEMPORARY COLD MIX PATCH MUST BE PLACED IMMEDIATELY AFTER BACKFILL AND COMPACTION. A PERMANENT HOT MIX PATCH SHALL BE PLACED WITHIN 30 DAYS AND SHALL BE A MINIMUM OF 1" THICKER THAN THE ORIGINAL ASPHALT WITH A MINIMUM THICKNESS OF 2".

15. ALL TRENCH BACKFILL SHALL BE COMPACTED TO 95 PERCENT DENSITY (MODIFIED PROCTOR ASTM-D1557) IN ROADWAYS, ROADWAY SHOULDERS, ROADWAY PRISM AND DRIVEWAYS, AND 90 PERCENT DENSITY (MODIFIED PROCTOR ASTM-D1557) IN UNPAVED AREAS. ALL PIPE ZONE COMPACTION SHALL BE 95 PERCENT (MODIFIED PROCTOR

16. WHEN CONSTRUCTING NEW CURB AND GUTTER THAT DOES NOT ALIGN WITH THE EXISTING EDGE OF PAVEMENT, THE ROADWAY MUST BE TAPERED AND SHALL MEET THE CURRENT CITY PUBLIC WORKS STANDARDS.

17. WHEN AN EXISTING ROADWAY IS TO BE WIDENED, THE EXISTING PAVEMENT MUST BE SAW CUT AT LEAST ONE FOOT FROM THE EDGE TO PROVIDE A PROPER MATCH BETWEEN NEW AND EXISTING ASPHALT. WHEN THE EXISTING PAVEMENT CONDITION PREVENTS A STRAIGHT CUT, THE SAW CUT MUST BE MADE AT THE NEAREST LANE EDGE. ALL SAW CUTS SHALL BE PARALLEL OR PERPENDICULAR TO THE RIGHT-OF-WAY CENTERLINE. 18. ALL PEDESTRIAN ACCESS AREAS INCLUDING SIDEWALKS AND SIDEWALK RAMPS SHALL BE CONSISTENT WITH CURRENT

PEDESTRIAN ACCESS MEET CURRENT ADA STANDARDS. WHEN THIS CANNOT BE MET, MAXIMUM EXTENT FEASIBLE (MEF) DOCUMENTATION SHALL BE SUBMITTED TO THE CITY PRIOR TO FINAL ACCEPTANCE. 19. PROOF ROLLING SHALL BE REQUIRED OF ALL SIDEWALKS, CURBS, AND ROADWAYS AT THE DISCRETION OF THE CITY

ADA REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE ENGINEER, CONTRACTOR, AND APPLICANT TO ENSURE ALL

PUBLIC WORKS CONSTRUCTION INSPECTOR TO ENSURE ADEQUATE COMPACTION.

DRAINAGE PLAN NOTES

PROOF OF LIABILITY INSURANCE SHALL BE SUBMITTED TO PUBLIC WORKS PRIOR TO THE CONSTRUCTION OF THE DRAINAGE FACILITIES, PREFERABLY AT THE PRECONSTRUCTION MEETING.

2. ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT SPECIFICATIONS. THIS SHALL INCLUDE LEVELING AND COMPACTING THE TRENCH BOTTOM, THE TOP OF THE FOUNDATION MATERIAL, AND ANY REQUIRED PIPE BEDDING, TO A UNIFORM GRADE SO THAT THE ENTIRE PIPE IS SUPPORTED BY A UNIFORMLY DENSE UNYIFIDING BASE

3. A LICENSED SURVEYOR SHALL SURVEY AND STAKE ALL STORM DRAIN FACILITIES AND CONVEYANCE LINES WITH ASSOCIATED EASEMENTS AND DEDICATIONS NOT LOCATED WITHIN THE PUBLIC RIGHT—OF—WAY. PUBLIC WORKS CONSTRUCTION INSPECTOR SHALL INSPECT AND VERIFY LOCATIONS PRIOR TO FINAL PLAT AND EASEMENT

4. STEEL PIPE SHALL BE ALUMINIZED, OR GALVANIZED WITH ASPHALT TREATMENT #1 OR BETTER INSIDE AND OUTSIDE.

5. ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK, SHALL HAVE SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLID LOCKING LIDS.

6. ALL DRIVEWAY CULVERTS LOCATED WITHIN SAMMAMISH RIGHT-OF-WAY SHALL BE OF SUFFICIENT LENGTH TO PROVIDE A MINIMUM 3:1 SLOPE FROM THE EDGE OF THE DRIVEWAY TO THE BOTTOM OF THE DITCH. CULVERTS SHALL HAVE BEVELED END SECTIONS TO MATCH THE SIDE SLOPE.

7. DRAINAGE OUTLETS (STUB-OUTS) SHALL BE PROVIDED FOR EACH INDIVIDUAL LOT, EXCEPT FOR THOSE LOTS APPROVED FOR INFILTRATION. STUB-OUTS SHALL CONFORM TO THE FOLLOWING:

A. EACH OUTLET SHALL BE SUITABLY LOCATED AT THE LOWEST ELEVATION ON THE LOT, SO AS TO SERVICE ALL FUTURE ROOF DOWNSPOUTS AND FOOTING DRAINS. DRIVEWAYS. YARD DRAINS. AND ANY OTHER SURFACE OR SUBSURFACE DRAINS NECESSARY TO RENDER THE LOTS SUITABLE FOR THEIR INTENDED USE. EACH OUTLET SHALL HAVE FREE-FLOWING, POSITIVE DRAINAGE TO AN APPROVED STORMWATER CONVEYANCE SYSTEM OR TO

B. OUTLETS ON EACH LOT SHALL BE LOCATED WITH A FIVE—FOOT—HIGH, 2" X 4" STAKE MARKED "STORM" OR "DRAIN". THE STUB-OUT SHALL EXTEND ABOVE SURFACE LEVEL, BE VISIBLE, AND BE SECURED TO THE STAKE.

C. PIPE MATERIAL SHALL CONFORM TO UNDERDRAIN SPECIFICATIONS DESCRIBED IN THE PUBLIC WORKS STANDARDS AND, IF NON-METALLIC, THE PIPE SHALL CONTAIN WIRE OR OTHER ACCEPTABLE DETECTION.

D. DRAINAGE EASEMENTS ARE REQUIRED FOR DRAINAGE SYSTEMS DESIGNED TO CONVEY FLOWS THROUGH E. THE APPLICANT/CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS OF ALL STUB-OUT

CONVEYANCE LINES WITH RESPECT TO THE UTILITIES (E.G. POWER, GAS, TELEPHONE, TELEVISION). F. ALL INDIVIDUAL STUB—OUTS SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE LOT HOMEOWNER.

8. ACCEPTABLE STORM PIPE MATERIAL IS AS FOLLOWS: PLAIN AND REINFORCED CONCRETE PIPE: CORRUGATED OR SPIRAL RIB ALUMINUM PIPE; CORRUGATED STEEL PIPE (ALUMINIZED OR GALVANIZED WITH TREATMENTS 1, 2 OR 5); SPIRAL RIB STEEL PIPE (ALUMINIZED OR GALVANIZED WITH TREATMENTS 1, 2 OR 5); DUCTILE IRON PIPE (WATER SUPPLY, CLASS 50 OR 52); POLYPROPYLENE CULVERT OR STORM SEWER PIPE (WSDOT SECTION 9-05.24), HIGH DENSITY POLYETHYLENE PIPE (HDPE, INCLUDING SOLID WALL POLYETHYLENE PIPE). REFER TO THE 2016 KING COUNTY SURFACE WATER DESIGN MANUAL SECTION 4.2 AND THE 2016 SAMMAMISH SURFACE WATER DESIGN MANUAL ADDENDUM CHAPTER 4 FOR DETAILS.

9. MINIMUM COVER OVER STORM DRAINAGE PIPES AND FACILITIES SHALL BE TWO FEET (2') UNLESS OTHERWISE SHOWN

10. THE MOST RECENTLY UPDATED WSDOT STANDARD PLANS SECTION B SHALL BE USED TO DETERMINE ACCEPTABLE DESIGN AND CONSTRUCTION STANDARDS FOR DRAINAGE STRUCTURES.

11. CATCH BASINS WITH A DEPTH OF OVER FIVE FEET (5') TO THE PIPE INVERT SHALL BE A TYPE II CATCH BASIN. TYPE II CATCH BASINS EXCEEDING FIVE FEET (5') IN DEPTH SHALL HAVE A STANDARD LADDER INSTALLED. ALL MANHOLE LADDERS SHALL BE FIRMLY ATTACHED AND EXTEND TO WITHIN 16" OF THE BOTTOM OF THE STRUCTURE. LADDERS REQUIRED WITHIN DRAINAGE STRUCTURES SHALL NOT BLOCK INLET OR OUTLET PIPES AND MUST BE ACCESSIBLE FROM STRUCTURE OPENING. REFER TO WSDOT STANDARD PLANS FOR DETAILS AND

12. ALL CATCH BASIN INLETS LOCATED OUTSIDE OF SURFACE WATER FLOW LINE SHALL BE TYPE 2 WITH SOLID ROUND LOCKING COVERS. FOR STRUCTURES LOCATED IN ROADWAYS, LIDS SHALL NOT BE LOCATED WITHIN THE WHEEL

13. ALL INLET, MANHOLE, AND CATCH BASIN FRAMES AND GRATES SHALL NOT BE ADJUSTED TO GRADE UNTIL IMMEDIATELY PRIOR TO FINAL PAVING, EXCEPT CATCH BASIN INLETS LOCATED IN THE CURB FLOW LINE. ALL CATCH BASIN GRATES SHALL BE SET 0.10' BELOW PAVEMENT LEVEL.

14. ALL CATCH BASIN GRATES SHALL BE VANED GRATES OR SOLID LID COVERS. HERRINGBONE GRATES ARE NOT ALLOWED. ALL CATCH BASINS LOCATED IN UNPAVED AREAS MUST HAVE AT LEAST A TWO (2) FEET WIDE AND FOUR (4) INCH THICK ASPHALT RING AROUND THE PERIMETER.

15. 12-INCH IS THE MINIMUM NOMINAL SURFACE WATER CONVEYANCE PIPE DIAMETER TO BE MAINTAINED BY THE CITY. 16. MAXIMUM PIPE RUN BETWEEN STRUCTURES SHALL BE 300 FEET. FOR MAINTENANCE OF STRUCTURES, A TRUCK

TURNAROUND SHALL BE PROVIDED. MAXIMUM DISTANCE BETWEEN MAINTENANCE VEHICLE ACCESS AND DRAINAGE STRUCTURE SHALL BE 150 FEET.

17. MINIMUM PIPE SLOPE SHALL BE 0.5%.

18. ONCE BACKFILL IS COMPLETE. THE LINE AND GRADE AT PIPE FLOW LINE LEAVING STANDING WATER GREATER THAN ONE—HALF INCH IN DEPTH SHALL NOT BE ACCEPTED AND MUST BE REPAIRED PRIOR TO ACCEPTANCE BY THE CITY.

19. ROOF AND FOOTING DRAINS SHALL BE CONNECTED TO THE STORM DRAIN SYSTEM SEPARATELY.

20. ALL PUBLIC STORMWATER FACILITIES SHALL BE DRAINED, JETTED, AND CLEANED PRIOR TO FINAL PLAT, PRIOR TO ACCEPTANCE INTO MAINTENANCE AND DEFECT PERIOD AND PRIOR TO THE RELEASE OF MAINTENANCE AND DEFECT INCLUDING ALL STORM PONDS, VAULTS, CATCH BASINS, AND CONVEYANCE PIPES.

21. ALL PRIVATE STORMWATER FACILITIES SHALL BE DRAINED, JETTED, AND CLEANED PRIOR TO FINAL OCCUPANCY.

22. ALL FILTER CARTRIDGES SHALL BE INSPECTED EVERY SIX MONTHS DURING THE MAINTENANCE AND DEFECT PERIOD TO PROVIDE PROPER FUNCTION AND SHALL BE REPLACED PRIOR TO RELEASE OF MAINTENANCE AND DEFECT.

23. PRIOR TO FINAL PAVING ALL STORMWATER PIPE LOCATED IN THE PUBLIC RIGHT—OF—WAY OR IDENTIFIED TO BE MAINTAINED BY THE CITY IN A PUBLIC EASEMENT SHALL BE RECORDED UNDER CLOSED CIRCUIT TELEVISION (CCTV). AN ELECTRONIC COPY SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL.

24. LOW IMPACT DEVELOPMENT (LID) INFILTRATION AND DISPERSION AREAS SHALL BE PROTECTED FROM COMPACTION AND SEDIMENT ACCUMULATION DURING CONSTRUCTION. SCARIFY BOTTOM OF ALL INFILTRATION FACILITIES INCLUDING RAIN GARDENS, BIORETENTION AREAS, POROUS PAVEMENTS, INFILTRATION TRENCHES, DRY WELLS, AND INFILTRATION FACILITIES MINIMUM 12-INCHES PRIOR TO BACKFILL WITH ROCK OR MEDIA. ALL BACKFILL SHALL BE MINIMALLY COMPACTED UP TO 85% DENSITY OR AS SPECIFIED ON PLANS.

25. ALL ROCKERY OR RETAINING WALL DRAINS SHALL BE CONNECTED TO THE STORM DRAIN SYSTEM, OR DAYLIGHTED TO AN ACCEPTABLE DISCHARGE LOCATION AS APPROVED BY THE CITY.

26. PRIOR TO FINAL PLAT APPROVAL, ALL PUBLIC AND PRIVATE STORMWATER FACILITIES SHALL BE CONSTRUCTED AND IN FULL OPERATION. THESE FACILITIES SHALL INCLUDE THE STORMWATER CONVEYANCE SYSTEM, DETENTION, WATER QUALITY, LOW IMPACT DEVELOPMENT BEST MANAGEMENT PRACTICES (LID BMPS) AND ANY REQUIRED MONITORING FACILITIÈS. THE CONVEYANCE SYSTEM SHALL INCLUDE ALL DRAINÀGE STRÚCTURES, PIPING, DITCHING, CURB, GUTTER, AND ROAD PAVING WITH THE EXCEPTION OF THE FINAL LIFT OF ASPHALT. UNLESS USED TO REDUCE THE SIZE OF DETENTION OR WATER QUALITY FACILITIES, LID BMPS SUCH AS BASIC DISPERSION AND INFILTRATION DEVICES LOCATED ON INDIVIDUAL SINGLE FAMILY RESIDENTIAL LOTS MAY BE CONSTRUCTED WITH SFR BUILDING PERMIT AND ARE NOT REQUIRED TO BE CONSTRUCTED PRIOR TO FINAL PLAT. IF SINGLE FAMILY LID BMPS WERE USED TO REDUCE THE SIZE OF DETENTION OR WATER FACILITIES (CREDIT GIVEN), LID BMPS SHALL BE CONSTRUCTED AND IN FULL OPERATION PRIOR TO FINAL PLAT APPROVAL.

27. THE DEVELOPER SHALL PURCHASE FROM THE CITY AND INSTALL STORM DRAIN MARKERS AND ADHESIVE, STATING "ONLY RAIN DOWN THE DRAIN", ON ALL CATCH BASINS. INSTALLATION INSTRUCTIONS ARE PROVIDED WITH THE DRAIN MARKERS. PLACEMENT ON ROADWAY ASPHALT SHALL BE AVOIDED.

28. THE 100-YEAR DESIGN ELEVATION OF DOWNSTREAM STORMWATER FACILITIES SUCH AS STORMWATER PONDS OR VAULTS SHALL BE AT OR BELOW ALL PIPE INVERTS. EXCEPTION TO THIS STANDARD IS THE PIPE FROM THE FIRST CATCH BASIN JUST UPSTREAM OF THE STORMWATER FACILITY MAY BE SUBMERGED TO ALLOW PIPE INLET TO

29. IMPROVEMENTS AND/OR BUILDINGS SHALL NOT BE INSTALLED UNTIL DRAINAGE FACILITIES ARE "IN OPERATION", (SMC 13.20.060).

	עדוו ודער	ROSSING T	ABLF
NO.			CLEARANCE (F
1	12" SD EX 8" SS	IE 395.56 CE 393.27	2.29
	EX 8" WA	IE 397.26	1.61
(2)	12" SD 8" WA	CE 395.65 IE 390.84	1.01
3	12" SD	CE 389.15	1.69
4	12" SD	IE 388.05	6.38
	8" SS EX 8" WA	CE 381.67 IE 388.45	
(5)	8" SS	CE 381.36	7.09
6	EX 8" WA 12" SD	IE 379.82 CE 378.32	1.50
$\langle 7 \rangle$	12" SD	IE 379.36	1.77
	3" SSFM 3" SS	CE 377.59 IE 372.57	
(8)	12" SD	CE 371.79	0.78
(10)	EX 8" WA 12" SD	IE 369.51 CE 368.26	1.25
(11)	18" SD	IE 361.36	0.50 *
	6" WA 18" SD	CE 360.86 IE 361.20	
(12)	EX 8" WA	CE 360.70	0.50 *
13	12" SD EX 8" WA	IE 361.69 CE 360.94	0.75
(14)	12" SD	IE 400.40	14.30
	8" SS 12" SD	CE 386.10 IE 402.36	
(15)	12" SD	CE 401.50	0.86
(16)	8" WA 12" SD	IE 403.14 CE 401.59	1.55
(17)	12" SD	IE 401.88	15.39
	8" SS 12" SD	CE 386.49 IE 405.06	10.00
(19)	8" SS	CE 387.12	17.94
20	8" WA 12" SD	IE 410.02 CE 404.90	5.12
21	8" WA	IE 409.53	6.15
	12" SD 12" SD	CE 403.38 IE 404.33	
(22)	8" SS	CE 387.64	16.69
23	8" WA 12" SD	IE 404.77 CE 402.18	2.59
24	12" SD	IE 401.24	13.07
	8" SS 12" SD	CE 388.17 IE 400.66	
(25)	12" SD	CE 396.84	3.82
26	8" WA 12" SD	IE 393.57 CE 392.02	1.55
27	12" SD	IE 391.09	2.27
	8" SS 8" WA	CE 388.82 IE 378.70	
(28)	12" SD	CE 377.70	1.00
29	12" SD 3" SS	IE 376.77 CE 376.27	0.50 *
30	EX 6" WA	IE 370.16	2.10
	12" SD 8" WA	CE 368.06 IE 369.72	
(31)	12" SD	CE 368.14	1.58
32	8" WA 12" SD	IE 375.30 CE 370.57	4.73
33	EX 6" WA	IE 375.44	3.18
	12" SD 12" SD	CE 372.26 IE 376.90	
(34)	3" SS	CE 376.40	0.50 *
37	12" SD EX 6" WA	IE 391.29 CE 389.01	2.28
38	8" WA	IE 376.68	2.18
	12" SD 6" WA	CE 374.50 IE 367.03	
(39)	12" SD	CE 365.49	1.54
40	6" WA 12" SD	IE 406.01 CE 397.52	8. <i>4</i> 9
41	EX 6" WA	IE 383.20	0.61
	12" SD	CE 382.59	0.07
NOTE:	מוופבי בדי	1AE0 A14 D 4 D	
- KE	WUIKES EIF	HAFOAM PAD	

TREE LEGEND

IF POSSIBLE.

EXISTING TREE TO BE REMOVED

EXISTING TREE TO BE SAVED

EXISTING TREE TO BE SAVED

(OUTSIDE CRITICAL AREA)

EXISTING OFF—SITE TREE

EXISTING TREE IN POOR CONDITION

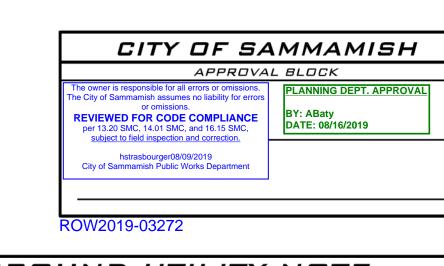
(INSIDE CRITICAL AREA)

EXISTING IMPACTED TREE TO REMAIN

CROSSING NOTES

<u>SEWER-STORM AND STORM-WATER:</u> PREFERRED VERTICAL SEPARATION BETWEEN PIPES IS 12" MIN. SEPARATION. PROVIDE ETHAFOAM PAD BETWEEN PIPES

IF CLEARANCE BETWEEN OUTER PIPE WALLS IS LESS THAN 1'.



LEGEND

PROPOSED FEATURES

GRADING AND TESC FEATURES

PROPOSED STORM DRAINAGE

PROPOSED SANITARY SEWER AND WATER

EXISTING FEATURES

ADJACENT PLAT/PARCEL LINE

ADJACENT RIGHT-OF-WAY

— SURFACE FEATURES

WETLAND BUFFER

- 2' CONTOURS

— Wire Fence

— BOARD FENCE

CHAINLINK FENCE

ZIN CURB RAMP

SIDEWALK

RIPRAP PAD

RIPRAP

✓ PIPE FLOW

BLOW OFF

]►[REDUCER

() () SEWER MANHOLE

SS PIPE FLOW

A FIRE HYDRANT

⊞ WATER METER

⋈ GATE VALVE

-O- POWER POLE

GAS VALVE

 \Box MAIL BOX

TELEPHONE RISER

CONCRETE

GRA VEL

∷ SLEEVE

]H[GATE VALVE

> CULVERT END

STORM CLEANOUT

YARD DRAIN

OVERFLOW STRUCTURE

TEE W/ CONC BLOCKING

→ BEND W/ CONC BLOCKING

CATCH BASIN, TYPE I

RESTRAINED JOINT

ROCK CHECK DAM

ASPHALT PAVEMENT

GRIND & OVERLAY

CENTERLINE MONUMENT

NTERIM CATCH BASIN

INTERIM CATCH BASIN

PROTECTION (INSERT)

PROTECTION (GRAVEL)

STRAW WATTLE

-----BOUNDARY

------ ------ EASEMENT

−∥−−−∥− DAYLIGHT LINE

COCOCOCOCOCO FILL ROCKERY

CDCDCDCDCDCD CUT ROCKERY

CLEARED AREA

FILTER FENCE

FILL RETAINING WALL

CUT RETAINING WALL

→ · · · · → INTERCEPTOR SWALE

= CURB FLOWLINE

— CENTER LINE

— LOT LINE

— — — — — — BUILDING SETBACK (BSBL)

-----190----- 10' PROPOSED CONTOURS

-----192----- 2' PROPOSED CONTOURS

CONSTRUCTION FENCE

LIMITS OF CLEARING

TEMPORARY STORM PIPE

- Storm Drain Pipe

ROCKERY DRAIN

SEWER FORCE MAIN

— SEWER SERVICE

SEWER MANHOLE

SEWER CLEANOUT

N IRRIGATION METER

— — — SD— *storm drain Pipe*

— — — OHP— **AERIAL POWER LINE**

¬── ··· ¬── ··· · DITCH OR SWALE

— — —190— — — 10' CONTOURS

— — — — SS— **SEWER MAIN**

— — — — W — WATER MAIN

----192----

— — — 🗆 -

■ WATER METER

✓ PIPE FLOW

■ TYPE I CB — STANDARD GRATE

INTERCEPTOR CULVERY

▶ 2:1 SLOPE DAGGER

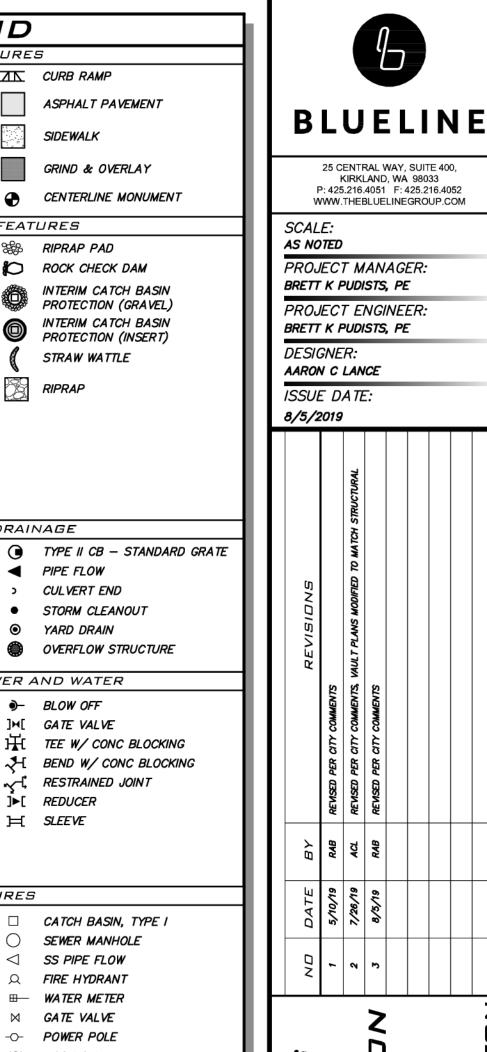
---- ROOF & FOOTING DRAIN

₩ RIPRAP PAD

----- SIDEWALK

UNDERGROUND UTILITY NOTE

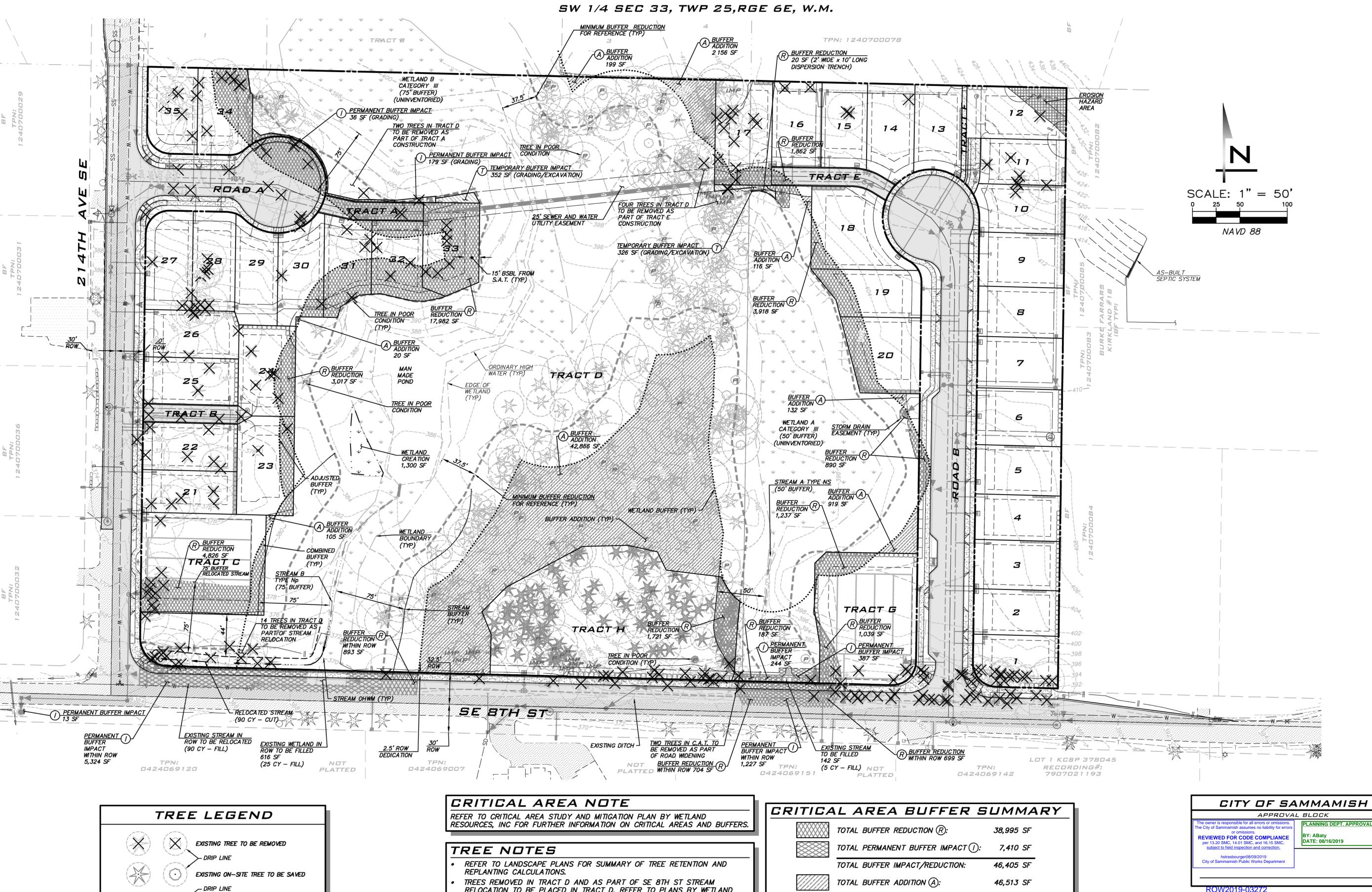
UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION 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 CONTRACTOR SHALL NOTIFY <u>ONE CALL</u> AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.



15-111

SHEET NAME: GN-01

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RELOCATION TO BE PLACED IN TRACT D. REFER TO PLANS BY WETLAND

BUFFER REDUCTION NOTES

SMC 21A.50.290 (7)
THE WETLAND BUFFER WIDTH CANNOT BE REDUCED TO LESS THAN
50% OF THE STANDARD BUFFER WIDTH

SMC 21A.50.330 (4) THE STREAM BUFFER WIDTH CANNOT BE REDUCED TO LESS THAN 50% OF THE STANDARD BUFFER WIDTH

* OTHER IMPACTS / MITIGATION

TEMPORARY IMPACT (T):

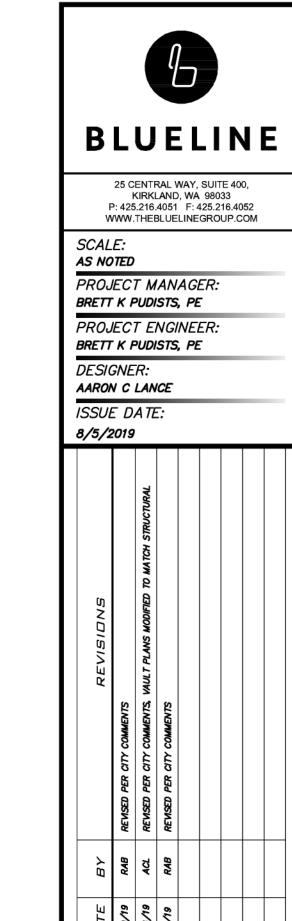
* SEE CRITICAL AREA NOTE, THIS SHEET

616 SF MITIGATED BY 1,300 SF OF PERMANENT WETLAND B IMPACT (ROW) ONSITE WETLAND CREATION PERMANENT STREAM A IMPACT (ROW) MITIGATED BY HABITAT FEATURES (LWD) 163 LF MITIGATED BY 163 LF OF STREAM B RELOCATION (ROW) STREAM CREATION

678 SF TO BE REPLANTED

UNDERGROUND UTILITY NOTE

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



8/5/19

15-111

SHEET NAME: BA-01

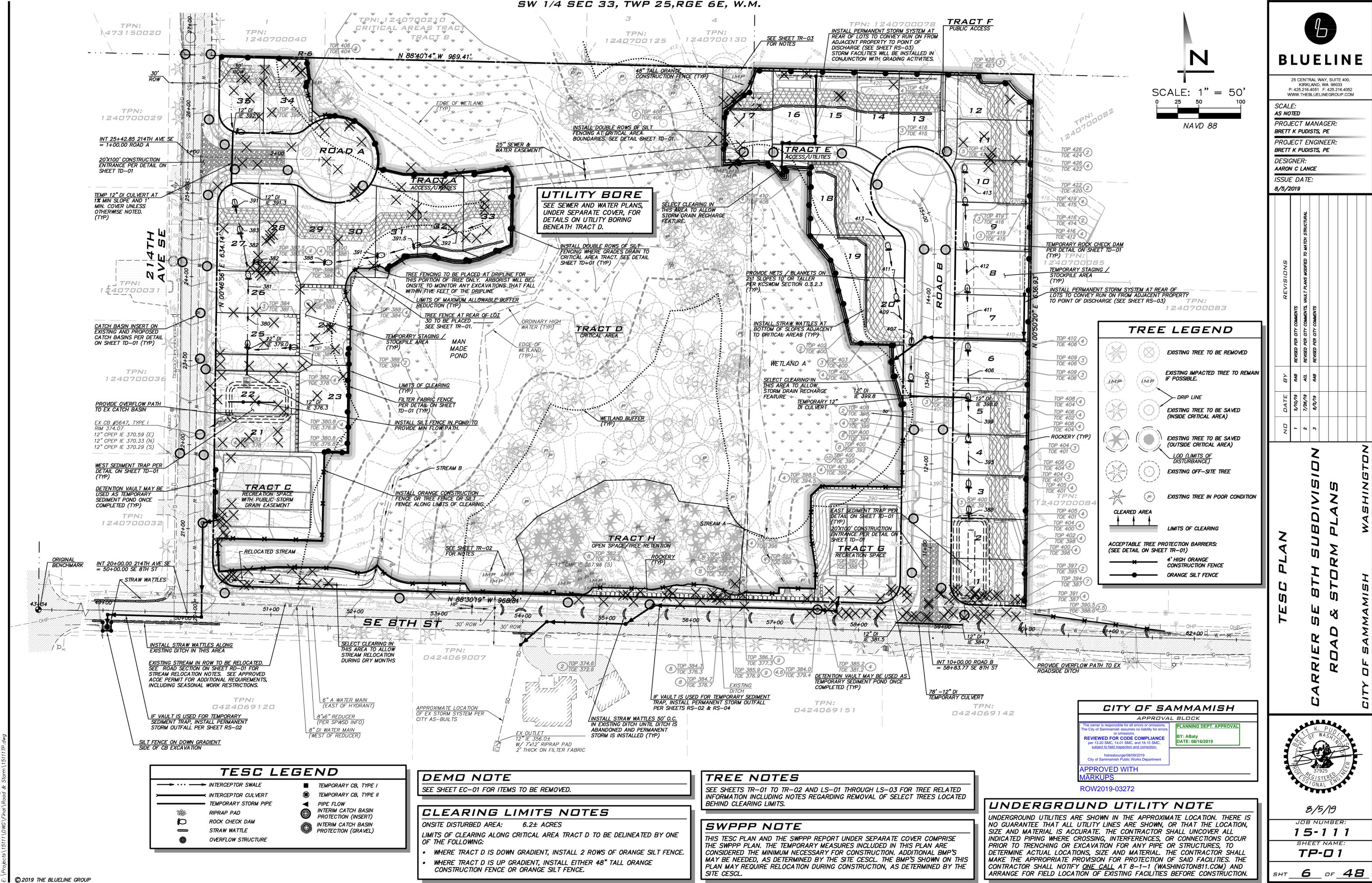
<u>5</u> of <u>48</u>

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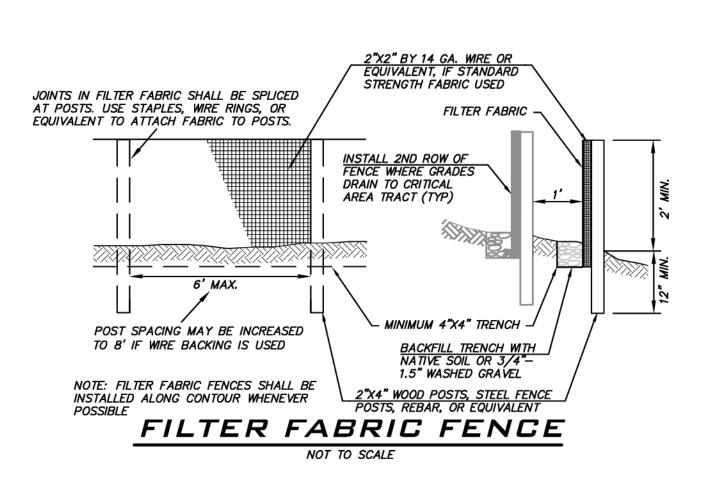
EXISTING C.A.T. TREE TO BE SAVED

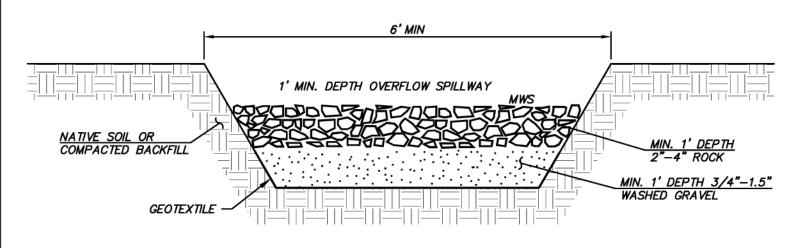
EXISTING TREE IN POOR CONDITION

TREE IMPACTED BY DEVELOPMENT

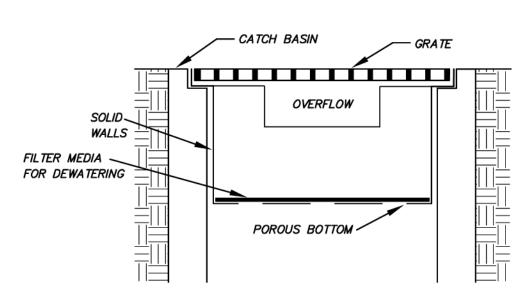


JUTE MATTING



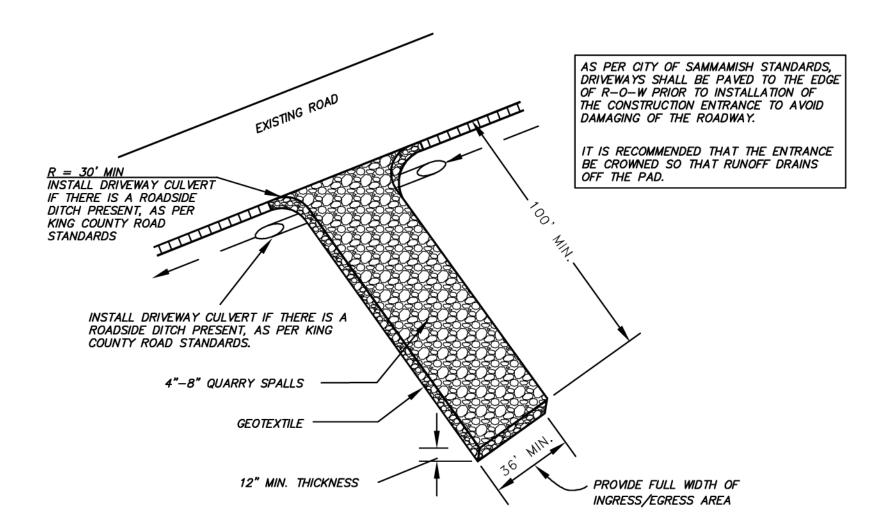


SEDIMENT TRAP DUTLET

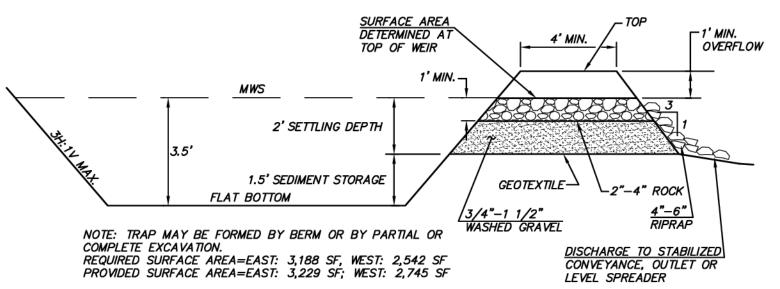


NOTE: THIS DETAIL IS ONLY SCHEMATIC. ANY INSERT IS ALLOWED THAT HAS A MIN. 0.5 C.F. OF STORAGE, THE MEANS TO DEWATER THE STORED SEDIMENT, AN OVERFLOW, AND CAN BE EASILY MAINTAINED.

CATCH BASIN INSERT NOT TO SCALE



STABILIZED CONSTRUCTION ENTRANCE

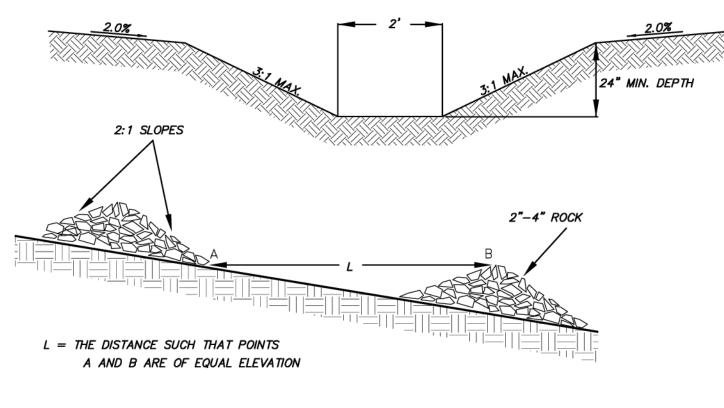


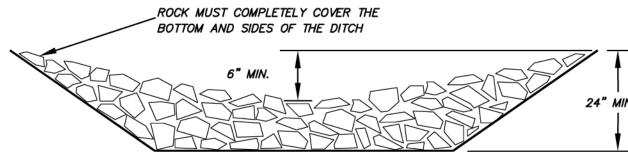
SEDIMENT TRAP CROSS SECTION

NOT TO SCALE

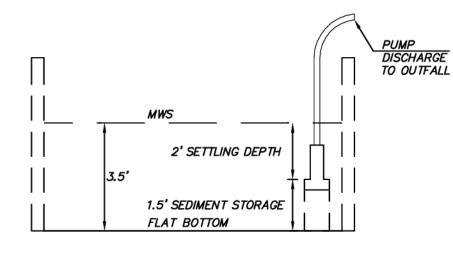
TRAP	ТОР	MWS	воттом	REQUIRED AREA @ MWS	DIM @ MWS	PROVIDED AREA @ MWS
EAST	387.00	386.00	382.50	3,229	95'x35'	3,325
WEST	379.00	378.00	374.50	2,745	70'x40'*	2,800

NOTE: CONFIGURATION OF SEDIMENT TRAPS MAY BE MODIFIED GIVEN THAT 1,345 SF OF SEDIMENT TRAP SURFACE AREA IS PROVIDED PER 1 ACRE OF TRIBUTARY AREA. * INSTALL SILT FENCE LONGITUDINALLY ALONG CENTER OF SEDIMENT TRAP PER PLAN TO PROVIDE REQUIRED FLOW PATH.

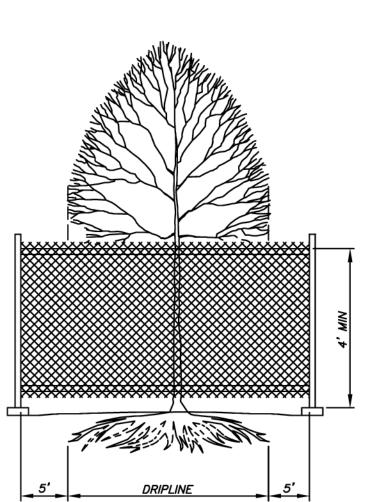




TEMPORARY INTERCEPTOR SWALE WITH ROCK CHECK DAMS



VAULT SEDIMENT TRAP NOT TO SCALE



- 1. 4' HIGH ORANGE CONSTRUCTION FENCE OR SILT FENCE SHALL BE PLACED 5' FROM DRIPLINE OF TREE TO BE SAVED UNLESS OTHERWISE NOTED. FENCE SHALL COMPLETELY ENCIRCLE TREE(S) WITH SIGNS READING "TREE SAVE AREA". INSTALL FENCE POSTS USING PIER BLOCKS ONLY. AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
- 2. TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS OVER 1" IN DIAMETER DAMAGED DURING CONSTRUCTION, MAKE A CLEAN STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING, AND COVERED WITH SOIL AS SOON AS POSSIBLE.
- 3. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMIT OF THE FENCING. FENCING SHALL NOT BE MOVED OR REMOVED UNLESS APPROVED BY THE CITY PLANNING OFFICIAL. WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY UNDER THE SUPERVISION OF THE ON—SITE ARBORIST AND WITH PRIOR APPROVAL BY THE CITY PLANNING OFFICIAL.

TREE PROTECTION BARRIER

APPROVA	L BLOCK
The owner is responsible for all errors or omissions. The City of Sammamish assumes no liability for errors	PLANNING DEPT. APPROVAL
or omissions. REVIEWED FOR CODE COMPLIANCE per 13.20 SMC, 14.01 SMC, and 16.15 SMC, subject to field inspection and correction.	BY: ABaty DATE: 08/16/2019
hstrasbourger08/09/2019 City of Sammamish Public Works Department	

BMP MAINTENANCE NOTE

MAINTENANCE STANDARDS FOR EROSION CONTROL BMPS ARE PROVIDED ON SHEET TD-02



25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM

SCALE:

AS NOTED PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER: BRETT K PUDISTS, PE

DESIGNER: AARON C LANCE

ISSUE DATE:

8/5/2019

8/5/19

15-111 SHEET NAME: TD-01

<u>7</u> of <u>48</u>

. THE IMPLEMENTATION OF THIS ESC PLAN AND THE CONSTRUCTION. MAINTENANCE. REPLACEMENT. AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR

UNTIL ALL CONSTRUCTION IS APPROVED.

THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, DISTURBANCE BEYOND THE CLEARING LIMITS IS NOT PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.

STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES. SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT-OF-WAY DOES NOT OCCUR FOR

THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, FLOW CONTROL BMP LOCATIONS (EXISTING AND PROPOSED). AND ADJACENT PROPERTIES IS MINIMIZED.

THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD. THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.) OR AS DIRECTED BY THE CITY.

THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR DURING NON-RAINFALL PERIODS, EVERY HOUR (DAYLIGHT) DURING A RAINFALL EVENT, AND AT THE END OF EVERY RAINFALL, AND MAINTAINED TO ENSURE THEIR CONTINUED PROPER FUNCTIONING. IN ADDITION, TEMPORARY SILTATION PONDS AND ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED. PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES DURING THE WET SEASON (OCT. 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPT

. ANY AREAS OF EXPOSED SOILS. INCLUDING ROADWAY EMBANKMENTS. THAT WILL NOT BE DISTURBED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC COVER METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).

D. ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.

10. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH (MORE FREQUENTLY AS REQUIRED BY THE PUBLIC WORKS CONSTRUCTION INSPECTOR) OR WITHIN TWENTY-FOUR (24) HOURS FOLLOWING A STORM EVENT.

 AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM

12. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM. THE PERMANENT FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN, ELSE THE TEMPORARY FACILITY MUST BE GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY. NO UNDERGROUND DETENTION TANK, DETENTION VAULT, OR SYSTEM WHICH BACKS UNDER OR INTO A POND SHALL BE USED AS A TEMPORARY SETTLING BASIN. FLOW CONTROL BMP AREAS (EXISTING OR PROPOSED) SHALL NOT BE USED AS TEMPORARY FACILITIES AND SHALL BE PROTECTED FROM SEDIMENTATION AND INTRUSION.

13. COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE KING COUNTY SURFACE WATER DESIGN MANUAL.

14. PRIOR TO THE BEGINNING OF THE WET SEASON (OCTOBER 1) OF EACH YEAR, ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. THE IDENTIFIED DISTURBED AREA SHALL BE SEEDED WITHIN ONE WEEK AFTER OCTOBER 1. A SKETCH MAP DEPICTING THE AREAS TO BE SEEDED AND THE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR. THE INSPECTOR MAY REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR

Notice of Construction Activity Signs

prepared and posted for any of these projects prior to the start of any work. The notice

The notice board shall be constructed with 4' x 4' x 1/2" plywood, exterior grade, good

the figure and as specified at the pre-construction meeting. Notice boards may be

reused, but they must be clean and show no evidence of former wording.

evenly spaced to approximate the sample shown.

1. Lettering style: Helvetica or similar typeface

3. Lettering: Black (permanent ink or silk-screen)

5. Logo: City of Sammamish emblem, in black

surface one side. Professionally prepared plastic board overlays, permanently affixed to the board are permissible. The notice board shall display the information as shown in

2. Lettering size: Title should be 3" capital letters (NOTICE OF PROPOSED CONSTRUCTION ACTIVITY). Other letters should be 1.5" letters and the

The applicant/developer shall erect the notice board by solidly setting two 4" x 4" posts

provide stability against wind or soft soil conditions if posts are less than 24 inches into

At the midpoint on the site street frontage or as otherwise directed by City

June 2012

a minimum of 24 inches into the ground; or structurally attaching it to an existing

building. Post length shall be at least 7 feet above the ground. Two 2"x 4" diagonal

braces should be nailed to the inside back of the posts and staked at the ground to

the ground. The notice board shall be attached to the posts with four lag bolts and

'Emergency' text and phone may be 1" letters. The size of the City logo shall

fit the available space as shown. Border area and lines of text shall be

A Notice-of-Construction signboard is required for all formal subdivisions, grading

permits subject to SEPA and Building permits subject to SEPA. The sign must be

board shall be constructed and displayed to the specifications described below.

Notice Board Construction Specifications:

4. Background Color: White

washers (3/8" diameter and 3" long).

The notice board shall be located:

Notice Board Location:

DRAINAGE FACILITIES.

16. ALL EROSION/SEDIMENTATION CONTROL PONDS WITH A DEAD STORAGE DEPTH EXCEEDING SIX INCHES (6") MUST HAVE A HIGHLY VISIBLE PERIMETER FENCE WITH A MINIMUM HEIGHT OF THREE FEET (3').

17. ALL LOTS ADJOINING OR HAVING ANY NATIVE GROWTH PROTECTION EASEMENTS (NGPE) OR SENSITIVE AREA TRACT SHALL HAVE A MINIMUM FOUR-FOOT (4') HIGH TEMPORARY CONSTRUCTION FENCE (CYCLONE OR PLASTIC MESH) SEPARATING THE LOT (OR BUILDABLE PORTIONS OF THE LOT) FROM THE AREA RESTRICTED BY THE NGPE AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR CLEARING AND REMAIN IN PLACE UNTIL A DWELLING IS CONSTRUCTED AND OWNERSHIP TRANSFERRED TO THE FIRST

CLEARING LIMITS SHALL BE DELINEATED WITH A CLEARING CONTROL FENCE. THE CLEARING CONTROL FENCE SHALL CONSIST OF A FOUR-FOOT (4') HIGH TEMPORARY CONSTRUCTION FENCE. CLEARING CONTROL FENCES ALONG WETLAND OR STREAM BUFFERS OR UPSLOPE OF SENSITIVE SLOPES SHALL BE ACCOMPANIED BY TWO ROWS OF EROSION CONTROL FENCE. IF DETERMINED APPROPRIATE BY CITY OF SAMMAMISH A SIX-FOOT (6') HIGH CHAIN LINK FENCE MAY BE REQUIRED.

19. IF SEDIMENT IS TRACKED OFFSITE, PUBLIC ROADS SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY, OR MORE FREQUENTLY DURING WET WEATHER, IF NECESSARY TO PREVENT SEDIMENT FROM ENTERING WATERS OF THE STATE. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR PICKUP SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING WILL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ONSITE, OR OTHERWISE BE PREVENTED FROM DISCHARGING INTO DRAINAGE SYSTEMS TRIBUTARY TO SURFACE WATERS.

20. ANY CATCH BASINS COLLECTING RUNOFF FROM THE SITE, WHETHER THEY ARE ON OR OFF THE SITE SHALL HAVE THEIR GRATES COVERED WITH FILTER FABRIC DURING CONSTRUCTION. CATCH BASINS DIRECTLY DOWNSTREAM OF THE CONSTRUCTION ENTRANCE OR ANY OTHER CATCH BASIN AS DETERMINED BY THE PUBLIC WORKS CONSTRUCTION INSPECTOR SHALL BE PROTECTED WITH A "FILTER FABRIC SOCK" OR EQUIVALENT. AT NO TIME SHALL MORE SEDIMENT THAN ONE—THIRD (1/3) OF THE AVAILABLE STORAGE BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN INSERT. SEE SECTION D.2.1.5.3 OF THE 2016 KCSWDM APPENDIX D.

THE WASHED GRAVEL BACKFILL ADJACENT TO THE FILTER FABRIC FENCE SHALL BE REPLACED AND THE FILTER FABRIC CLEANED IF IT IS NONFUNCTIONAL BY EXCESSIVE SILT ACCUMULATION AS DETERMINED BY THE CITY OF SAMMAMISH PUBLIC WORKS CONSTRUCTION INSPECTOR. ALL INTERCEPTOR SWALES SHALL BE CLEANED IF SILT ACCUMULATION EXCEEDS ONE-HALF FOOT (0.5') DEPTH.

22. ROCK FOR EROSION PROTECTION OF ROADWAY DITCHES, WHERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF 1' AND MUST MEET WSDOT SPECIFICATIONS 4"-8" ROCK/40%-70% PASSING; 2"-4" ROCK/30%-40% PASSING; AND 1"-2" ROCK/10%-20% PASSING.

23. FLUSHING CONCRETE BY-PRODUCTS OR TRUCKS NEAR OR INTO THE STORM DRAINAGE SYSTEM SHALL

NOT BE ALLOWED. IF EXPOSED AGGREGATE IS FLUSHED INTO THE STORM SYSTEM, IT MAY RESULT IN

MAINTENANCE AND DEFECT PERIOD SHALL BE NO MORE THAN ONE—HALF OF THE 2—YEAR PEAK FLOW

RE-INSPECTION AND RE-CLEANING THE ENTIRE AFFECTED DOWNSTREAM STORM SYSTEM, OR POSSIBLY 24. MAXIMUM RELEASE RATE FROM THE SITE AT ANY TIME DURING CONSTRUCTION AND DURING THE

WHEN THE FLOW CONTROL STRUCTURE IS BYPASSED. 25. DURING THE WET SEASON (OCTOBER 1 - APRIL 30) NOTES:

THE ALLOWED TIME THAT A DISTURBED AREA MAY REMAIN UNWORKED WITHOUT COVER MEASURES IS REDUCED TO TWO CONSECUTIVE WORKING DAYS, RATHER THAN SEVEN (SECTION

STOCKPILES AND STEEP CUT AND FILL SLOPES ARE TO BE PROTECTED IF UNWORKED FOR MORE THAN 12 HOURS (SECTION D.2.1.2).

COVER MATERIALS SUFFICIENT TO COVER ALL DISTURBED AREAS SHALL BE STOCKPILED ON SITE

D. ALL AREAS THAT ARE TO BE UNWORKED DURING THE WET SEASON SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON (SECTION D.2.1.2.6).

MULCH IS REQUIRED TO PROTECT ALL SEEDED AREAS (SECTION D.2.1.2.2).

FIFTY LINEAR FEET OF SILT FENCE (AND THE NECESSARY STAKES) PER ACRE OF DISTURBANCE MUST BE STOCKPILED ON SITE (SECTION D.2.1.3.1).

CONSTRUCTION ROAD AND PARKING LOT STABILIZATION ARE REQUIRED FOR ALL SITES UNLESS THE SITE IS UNDERLAIN BY COARSE-GRAINED SOIL (SECTION D.2.1.4.2).

> At a location 5 feet inside the street property line; a notice board structurally attached to an existing building shall be exempt from the setback provisions,

provided that the notice board is located not more than 5 feet from the

So that the top of the notice board is between 7 to 9 feet above grade.

The applicant/developer shall maintain the notice board in good condition throughout the site improvement construction period, which shall extend through the time of final

construction approval by City. The notice board shall be removed within 14 days after

APPLICANT: TOLL BROTHERS, INC.

DESCRIPTION: 35 LOT SUBDIVISION

HOURS OF CONSTRUCTION: 7:00 AM TO 8:00 PM M-F

ESTIMATED COMPLETION DATE: 7/2020

AFTER HOURS FOR ENVIRONMENTAL

OR SAFETYRELATED EMERGENCIES: 911

TYPE OF ACTION: SITE DEVELOPMENT PERMIT PROJECT NO: SDP 2018-06254

DEVELOPER CONTACT: ERIC WEISENSTEIN, 908-892-2873

June 2012

9:00 AM TO 6:00 PM Saturday

No work permitted on Sunday

CITY CONTACT: HAIM STRASBOURGER, PE, 425-295-0562

TESC SUPERVISOR: AARON KOPET, 425-825-1955, EXT 124

NOTICE OF

PROPOSED

CONSTRUCTION

ACTIVITY

SEDIMENT RETENTION IS REQUIRED UNLESS NO OFFSITE DISCHARGE IS ANTICIPATED FOR THE

property line without approval from City staff.

So that it is totally visible to pedestrians.

Maintenance and Removal of Notice Board:

final construction approval.

CITY OF SAMMAMISH

SAMMAMISH, WA 98075

801 228TH AVE SE

425-295-0500

SPECIFIED DESIGN FLOW (SECTION D.2.1.5).

SURFACE WATER CONTROLS ARE REQUIRED UNLESS NO OFFSITE DISCHARGE IS ANTICIPATED FOR THE SPECIFIED DESIGN FLOW (SECTION D.2.1.6).

PHASING AND MORE CONSERVATIVE BMPS MUST BE EVALUATED FOR CONSTRUCTION ACTIVITY NEAR SURFACE WATERS (SECTION D.2.4.3).

K. ANY RUNOFF GENERATED BY DEWATERING MAY BE REQUIRED TO DISCHARGE TO THE SANITARY SEWER (WITH APPROPRIATE DISCHARGE AUTHORIZATION), PORTABLE SAND FILTER SYSTEMS, OR HOLDING TANKS (SECTION D.2.2).

WHEN LOCATED WITHIN AN ENVIRONMENTALLY CRITICAL AREA, A WET SEASON PERMIT IS REQUIRED.

26. A DETAILED CONSTRUCTION SEQUENCE IS REQUIRED TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE APPLIED AT THE APPROPRIATE TIMES. A CONSTRUCTION SEQUENCE TEMPLATE IS PROVIDED BELOW, TO BE UPDATED TO SPECIFICALLY MATCH THE PROJECT:

PRE-CONSTRUCTION MEETING.

B. POST SIGN WITH NAME AND PHONE NUMBER OF CSWPP/ESC SUPERVISOR.

C. FLAG OR FENCE CLEARING LIMITS.

D. INSTALL CATCH BASIN PROTECTION, IF REQUIRED.

E. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).

F. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).

G. CONSTRUCT SEDIMENT PONDS AND TRAPS.

H. GRADE AND STABILIZE CONSTRUCTION ROADS.

CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.

MAINTAIN EROSION CONTROL MEASURE IN ACCORDANCE WITH CITY PUBLIC WORKS STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY ESC MINIMUM REQUIREMENTS.

COVER ALL AREAS WITHIN THE SPECIFIED TIME FRAME WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, CRUSHED ROCK OR EQUIVALENT.

M. STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN SEVEN (7) DAYS.

N. SEED OR SOD ANY AREAS TO REMAIN UN-WORKED FOR MORE THAN THIRTY (30) DAYS.

UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BEST MANAGEMENT PRACTICES (BMPS) REMOVED IF APPROPRIATE.

SWPPS PLAN NOTES

1. ALL POLLUTANTS, INCLUDING WASTE MATERIALS, THAT OCCUR ONSITE SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER.

2. COVER, CONTAINMENT, AND PROTECTION FROM VANDALISM SHALL BE PROVIDED FOR ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS, AND NON-INERT WASTES PRESENT ON THE SITE (SEE CHAPTER 173-304 WAC FOR THE DEFINITION OF INERT WASTE). ONSITE FUELING TANKS SHALL INCLUDE SECONDARY CONTAINMENT.

3. MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN. SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL. AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. EMERGENCY REPAIRS MAY BE PERFORMED ONSITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF RAINING, OVER THE

4. APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, SHALL BE CONDUCTED IN A MANNER AND AT APPLICATION RATES THAT WILL NOT RESULT IN LOSS OF CHEMICAL TO STORMWATER RUNOFF. MANUFACTURERS' RECOMMENDATIONS FOR APPLICATION RATES AND PROCEDURES SHALL BE FOLLOWED.

MEASURES SHALL BE USED TO PREVENT OR TREAT CONTAMINATION OF STORMWATER RUNOFF BY PH MODIFYING SOURCES. THESE SOURCES INCLUDE, BUT ARE NOT LIMITED TO, BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHING AND CURING WATERS, WASTE STREAMS GENERATED FROM CONCRETE GRINDING AND SAWING, EXPOSED AGGREGATE PROCESSES, AND CONCRETE PUMPING AND MIXER WASHOUT WATERS. STORMWATER DISCHARGES SHALL NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE WATER QUALITY STANDARD FOR PH IN THE RECEIVING WATER.

BMP MAINTENANCE NOTES

STABLIZED CONSTRUCTUON ENTRANCE:

1. QUARRY SPALLS (OR HOG FUEL) SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.

2. IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH. IF WASHING IS USED, IT SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK. AND WASH WATER SHALL DRAIN TO A SEDIMENT TRAP OR POND.

ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ONSITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREETS, A SMALL SUMP MUST BE CONSTRUCTED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP WHERE IT CAN BE CONTROLLED. WASH WATER MUST BE PUMPED BACK ONTO THE SITE AND CAN NOT DISCHARGE TO SYSTEMS TRIBUTARY TO SURFACE WATERS.

4. ANY QUARRY SPALLS THAT ARE LOOSENED FROM THE PAD AND END UP ON THE ROADWAY SHALL BE REMOVED IMMEDIATELY. MULCHING:

1. THE THICKNESS OF THE MULCH COVER MUST BE MAINTAINED.

2. ANY AREAS THAT EXPERIENCE EROSION SHALL BE RE-MULCHED AND/OR PROTECTED WITH A NET OR BLANKET. IF THE EROSION PROBLEM IS DRAINAGE RELATED, THEN THE DRAINAGE PROBLEM SHALL BE ASSESSED AND ALTERNATE DRAINAGE SUCH AS INTERCEPTOR SWALES MAY BE NEEDED TO FIX THE PROBLEM AND THE ERODED AREA RE-MULCHED.

MARK CLEARING LIMITS:

1. FENCING SHALL BE INSPECTED REGULARLY AND REPAIRED OR REPLACED AS NEEDED.

1. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.

2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT

3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.

4. SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6 INCHES HIGH.

5. IF THE FILTER FABRIC (GEOTEXTILE) HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

STORM DRAIN INLET PROTECTION:

2. ANY SEDIMENT IN THE CATCH BASIN INSERT SHALL BE REMOVED WHEN THE SEDIMENT HAS FILLED ONE—THIRD OF THE

1. ANY ACCUMULATED SEDIMENT ON OR AROUND INLET PROTECTION SHALL BE REMOVED IMMEDIATELY. SEDIMENT SHALL NOT BE REMOVED WITH WATER, AND ALL SEDIMENT MUST BE DISPOSED OF AS FILL ON SITE OR HAULED OFF SITE.

AVAILABLE STORAGE. THE FILTER MEDIA FOR THE INSERT SHALL BE CLEANED OR REPLACED AT LEAST MONTHLY. 3. REGULAR MAINTENANCE IS CRITICAL FOR ALL FORMS OF CATCH BASIN/INLET PROTECTION. UNLIKE MANY FORMS OF

PROTECTION THAT FAIL GRADUALLY, CATCH BASIN PROTECTION WILL FAIL SUDDENLY AND COMPLETELY IF NOT MAINTAINED PROPERLY.

INTERCEPTOR DIKES AND SWALES:

1. DAMAGE RESULTING FROM RUNOFF OR CONSTRUCTION ACTIVITY SHALL BE REPAIRED IMMEDIATELY.

2. IF THE FACILITIES DO NOT REGULARLY RETAIN STORM RUNOFF, THE CAPACITY AND/OR FREQUENCY OF THE DIKES/SWALES SHALL BE INCREASED.

JUTE MATTING

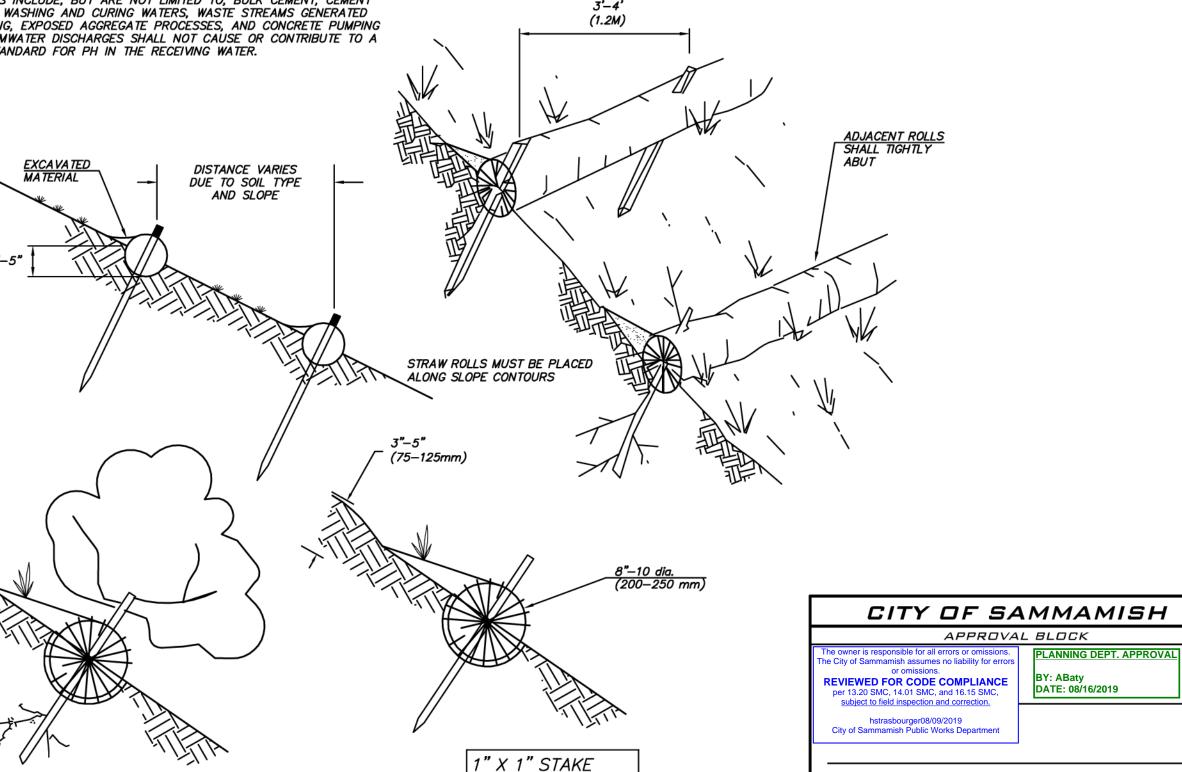
1. GOOD CONTACT WITH THE GROUND MUST BE MAINTAINED, AND THERE MUST NOT BE EROSION BENEATH THE NET OR BLANKET.

2. ANY AREAS OF THE NET OR BLANKET THAT ARE DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED AND STAPLED.

3. IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREA PROTECTED.

SEDIMENT TRAP

1. SEDIMENT SHALL BE REMOVED FROM THE TRAP WHEN IT REACHES 1 FOOT IN DEPTH. 2. ANY DAMAGE TO THE TRAP EMBANKMENTS OR SLOPES SHALL BE REPAIRED.



LIVE STAKE

STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"-5" (75-125MM) DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

STRAW WATTLES

UNDERGROUND UTILITY NOTE

ROW2019-03272

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

WWW.THEBLUELINEGROUP.COM SCALE:

AS NOTED PROJECT MANAGER: Brett k pudists, pe

PROJECT ENGINEER: BRETT K PUDISTS, PE

DESIGNER:

AARON C LANCE

ISSUE DATE: 8/5/2019

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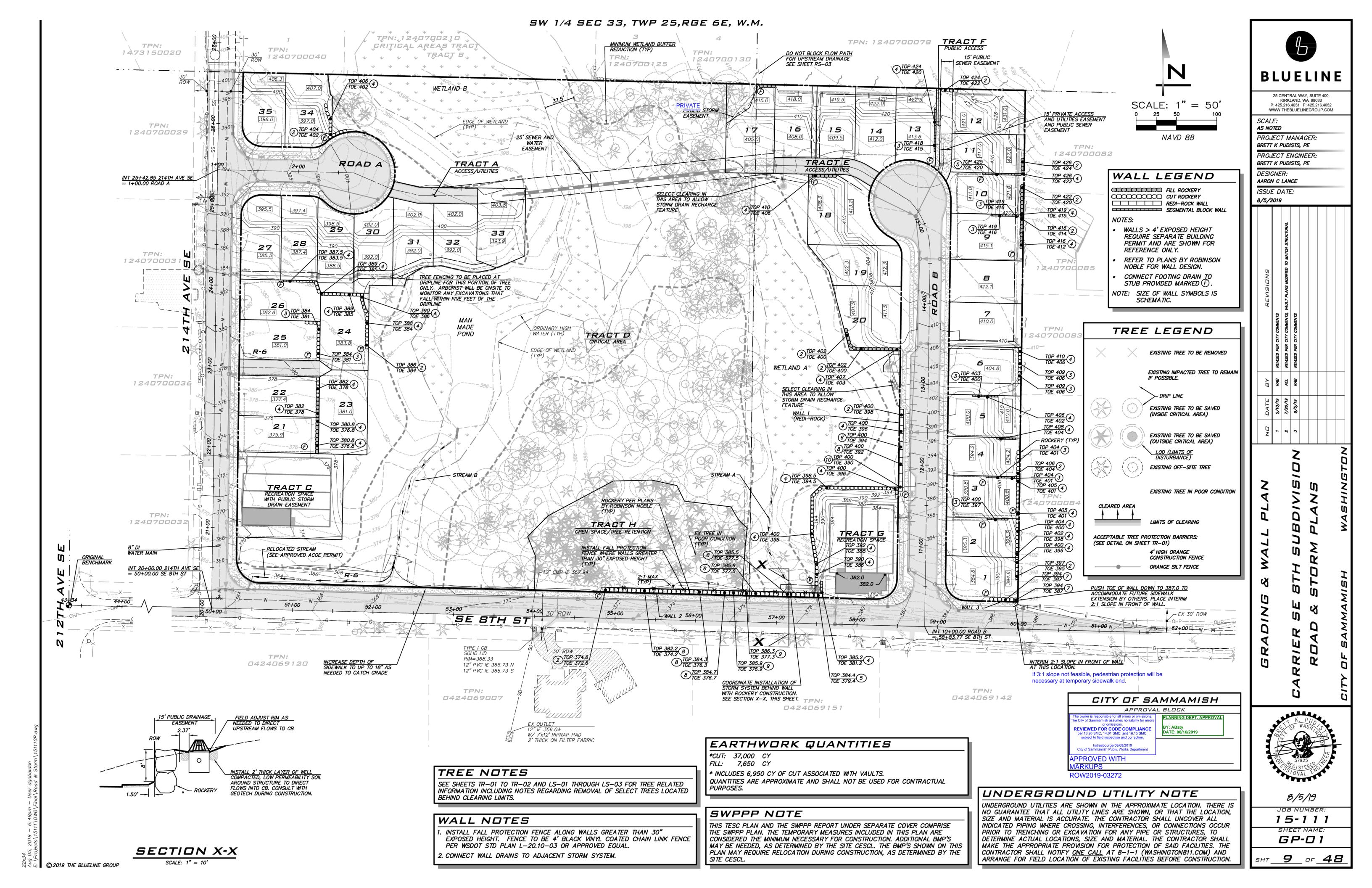
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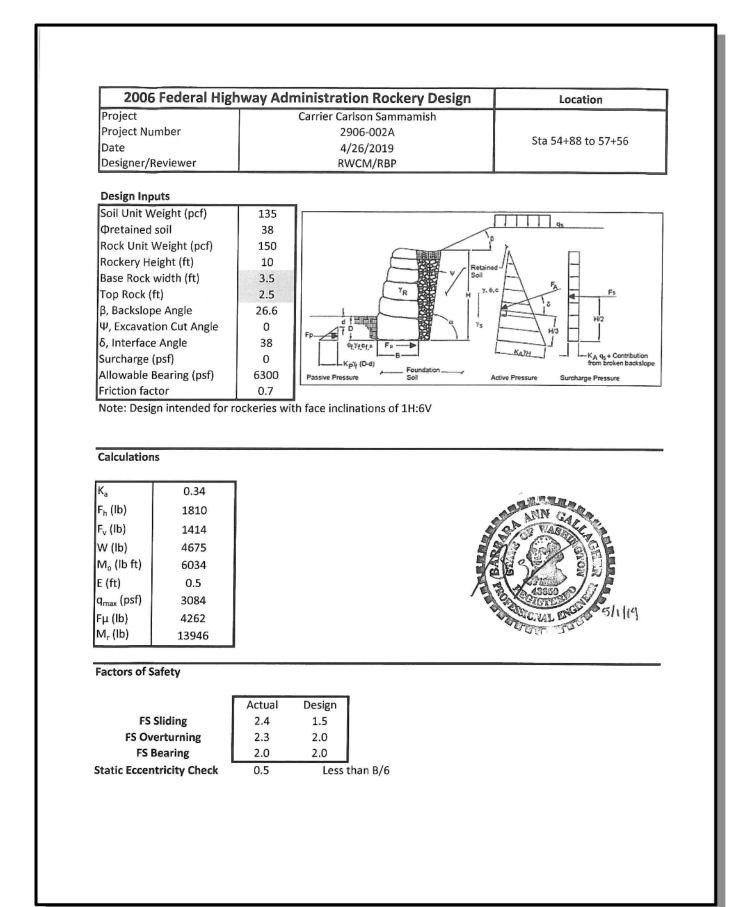
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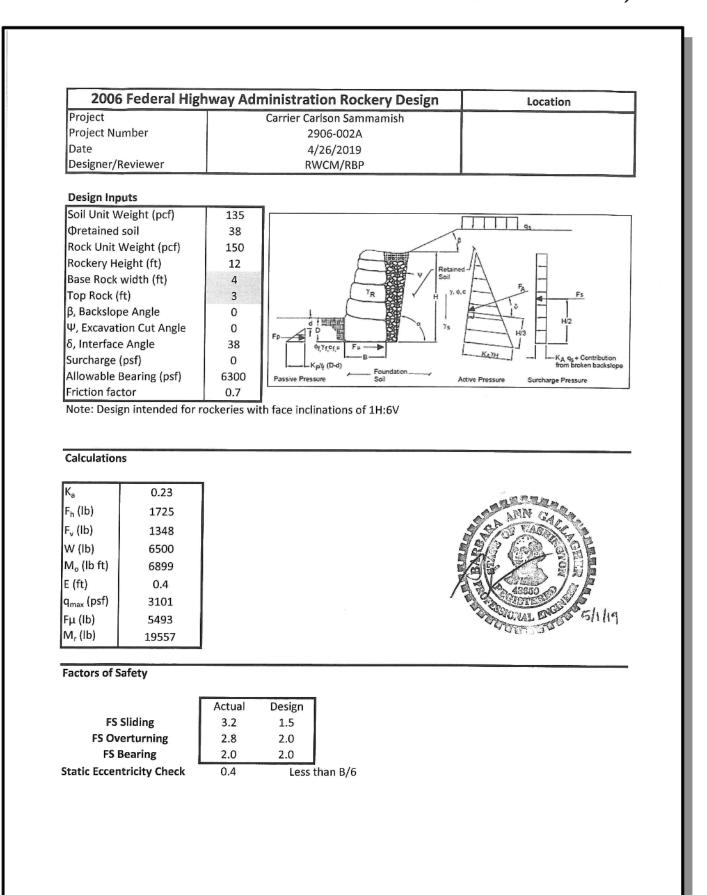
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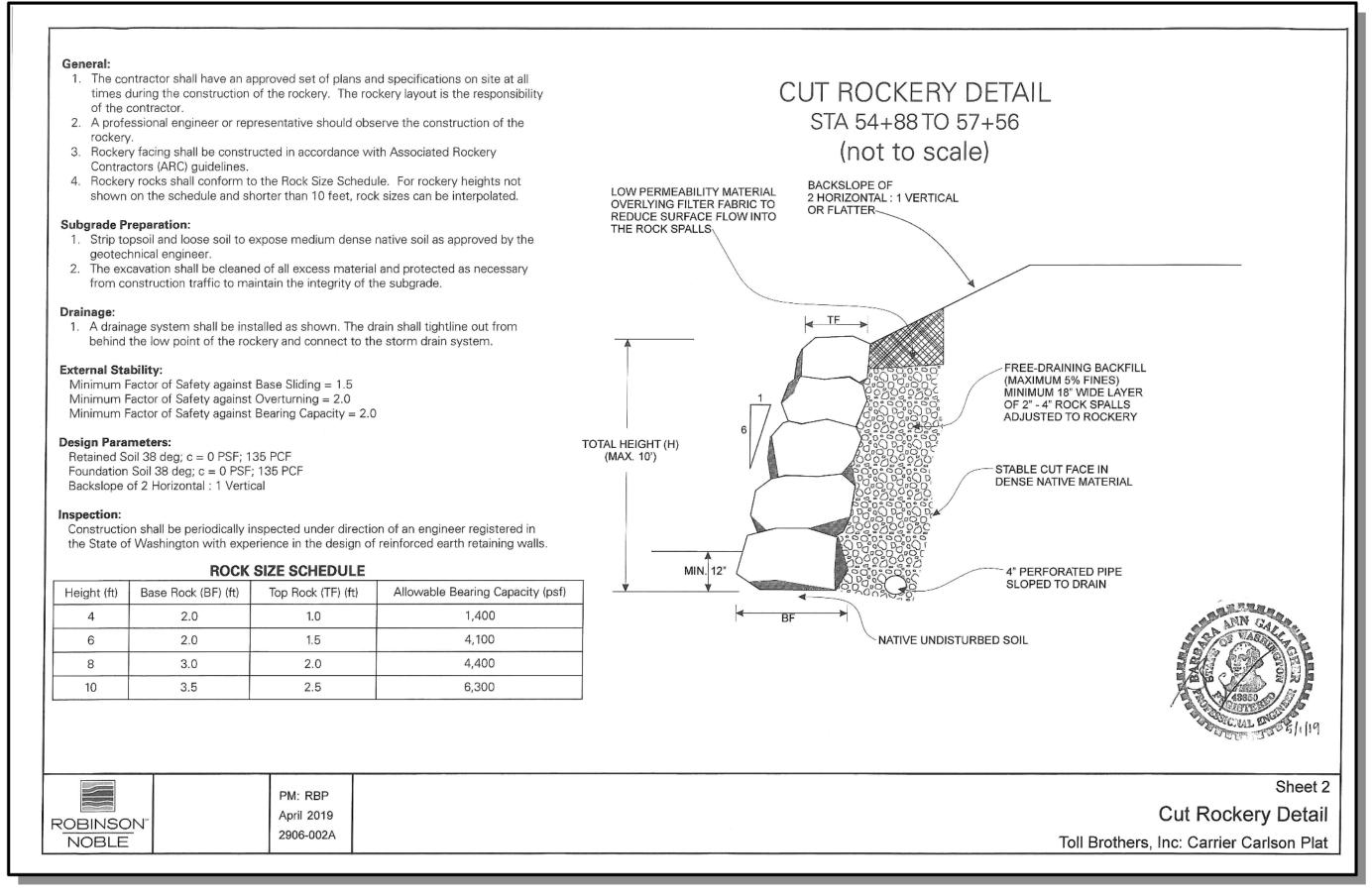
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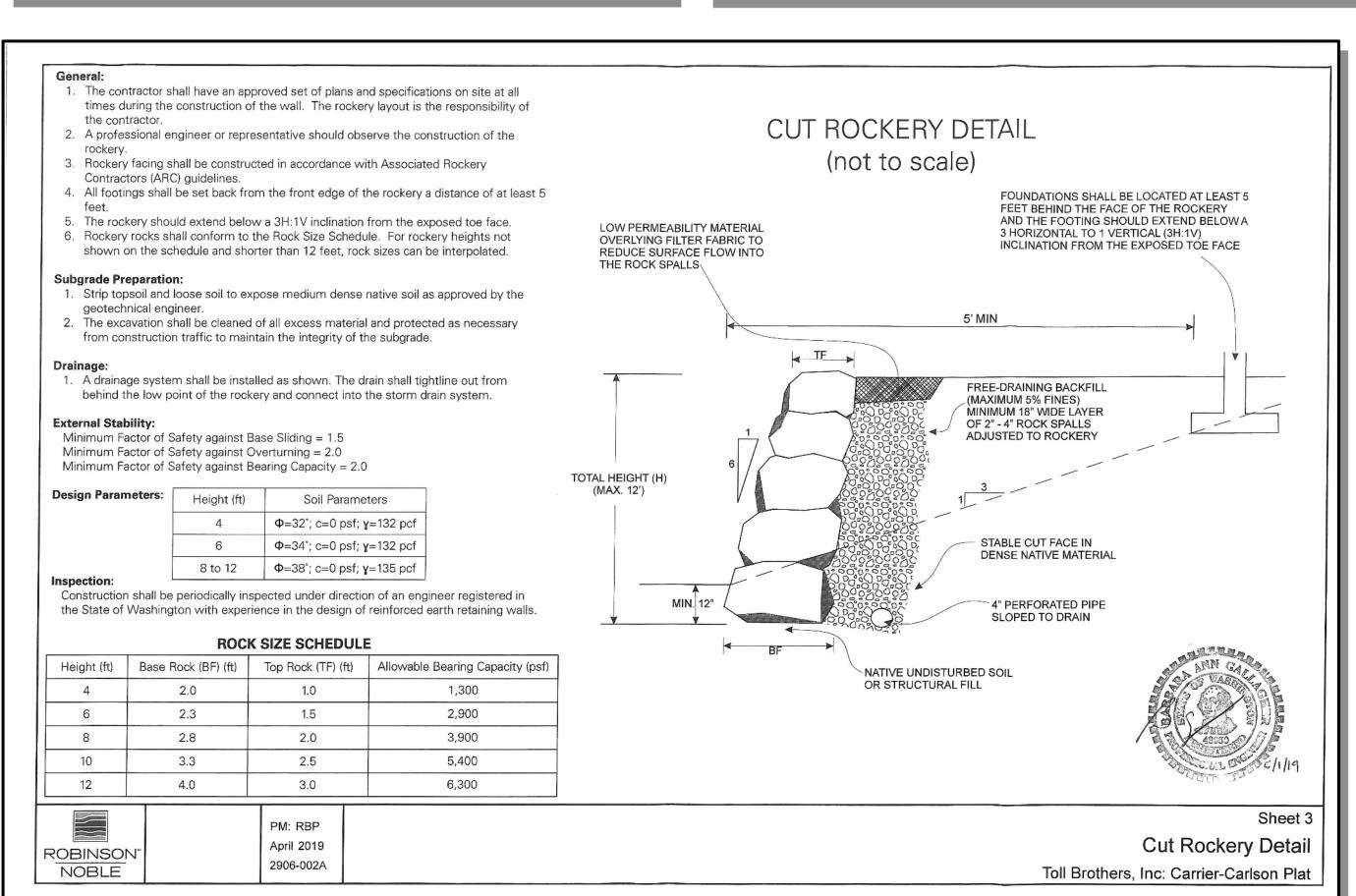
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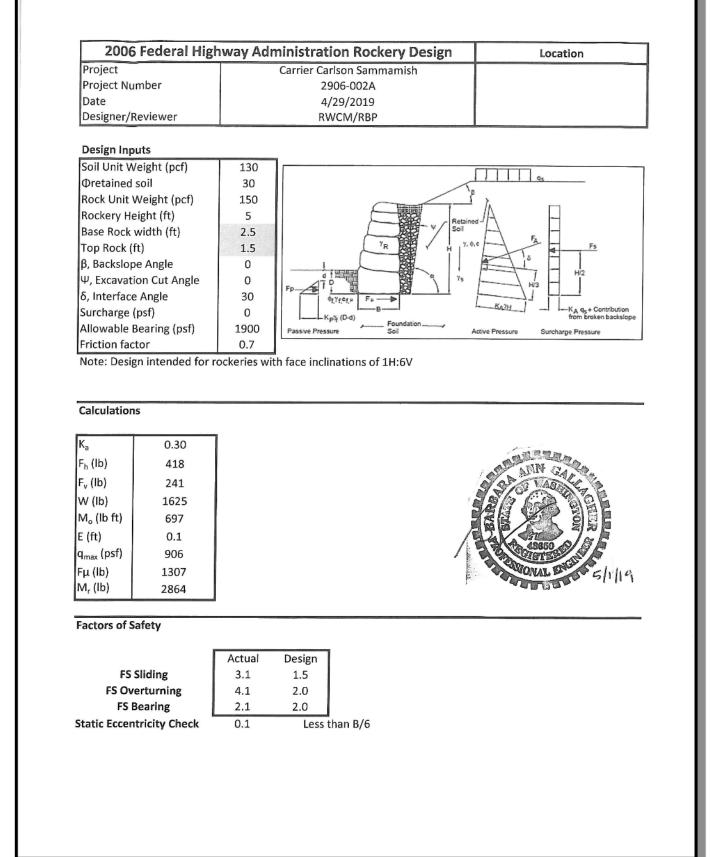














ROCKERY DETAILS WERE PREPARED BY ROBINSON NOBLE AND HAVE BEEN PROVIDED FOR REFERENCE. BLUELINE IS NOT RESPONSIBLE FOR DESIGN.

EVILWED FOR CORE COMPLIANCE CITY OF SAMMAMISH APPROVAL BLOCK PLANNING DEPT. APPROVAL BY: ABaty

REVIEWED FOR CODE COMPLIANCE
per 13.20 SMC, 14.01 SMC, and 16.15 SMC,
subject to field inspection and correction.

hstrasbourger08/09/2019
City of Sammamish Public Works Department

UNDERGROUND UTILITY NOTE

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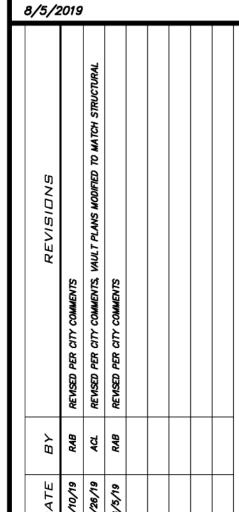
SCALE:

AS NOTED

PROJECT MANAGER: BRETT K PUDISTS, PE

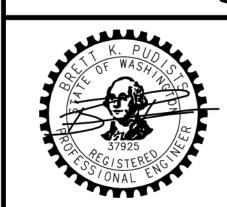
PROJECT ENGINEER:
BRETT K PUDISTS, PE

DESIGNER: AARON C LANCE ISSUE DATE:



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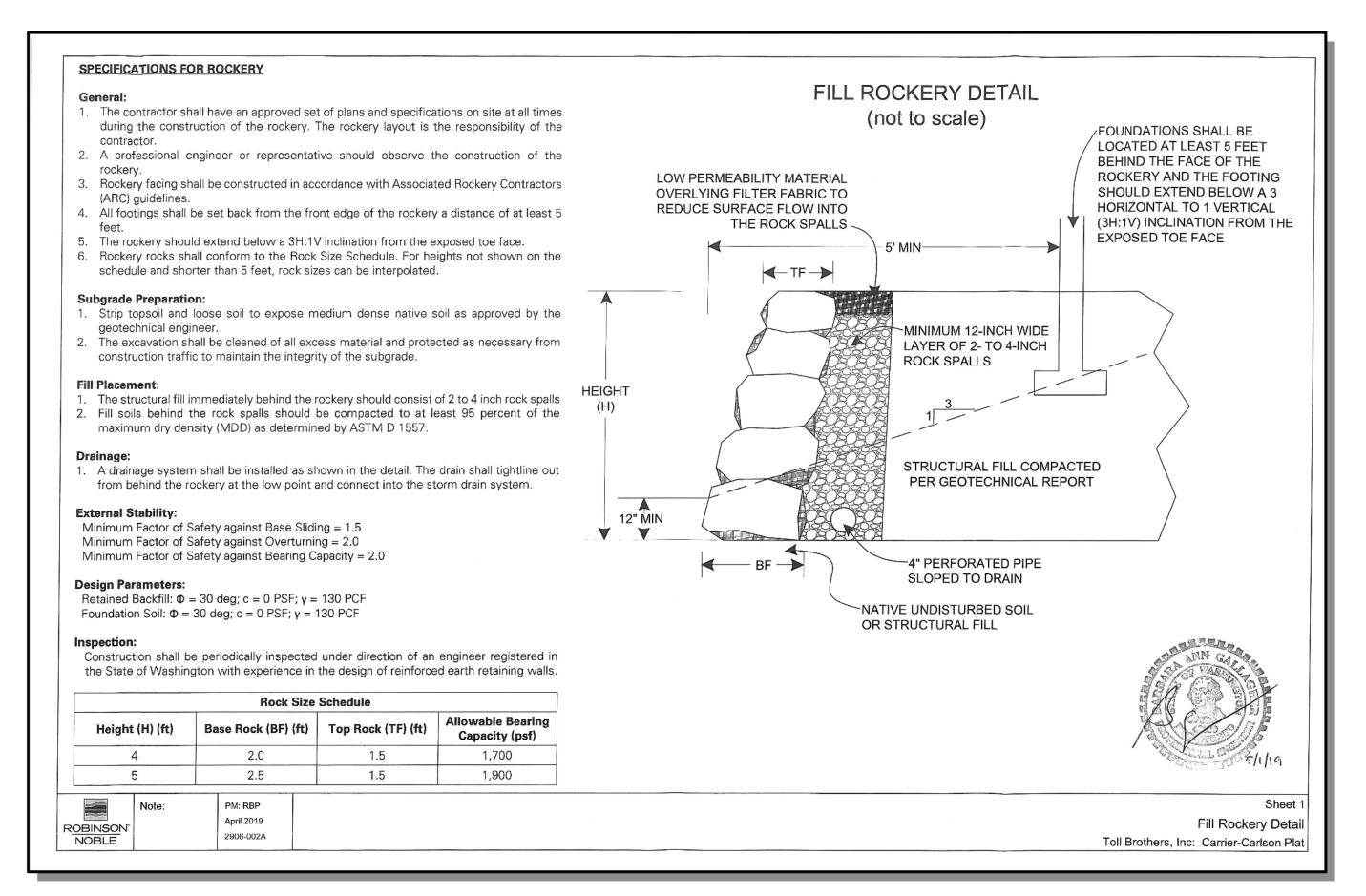


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WWW.THEBLUELINEGROUP.COM SCALE:

AS NOTED PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER: BRETT K PUDISTS, PE

DESIGNER: AARON C LANCE ISSUE DATE: 8/5/2019

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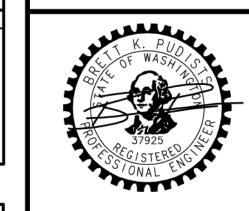
> APPROVAL BLOCK PLANNING DEPT. APPROVAL or omissions.
>
> REVIEWED FOR CODE COMPLIANCE
>
> per 13.20 SMC, 14.01 SMC, and 16.15 SMC,
> subject to field inspection and correction.

City of Sammamish Public Works Departr

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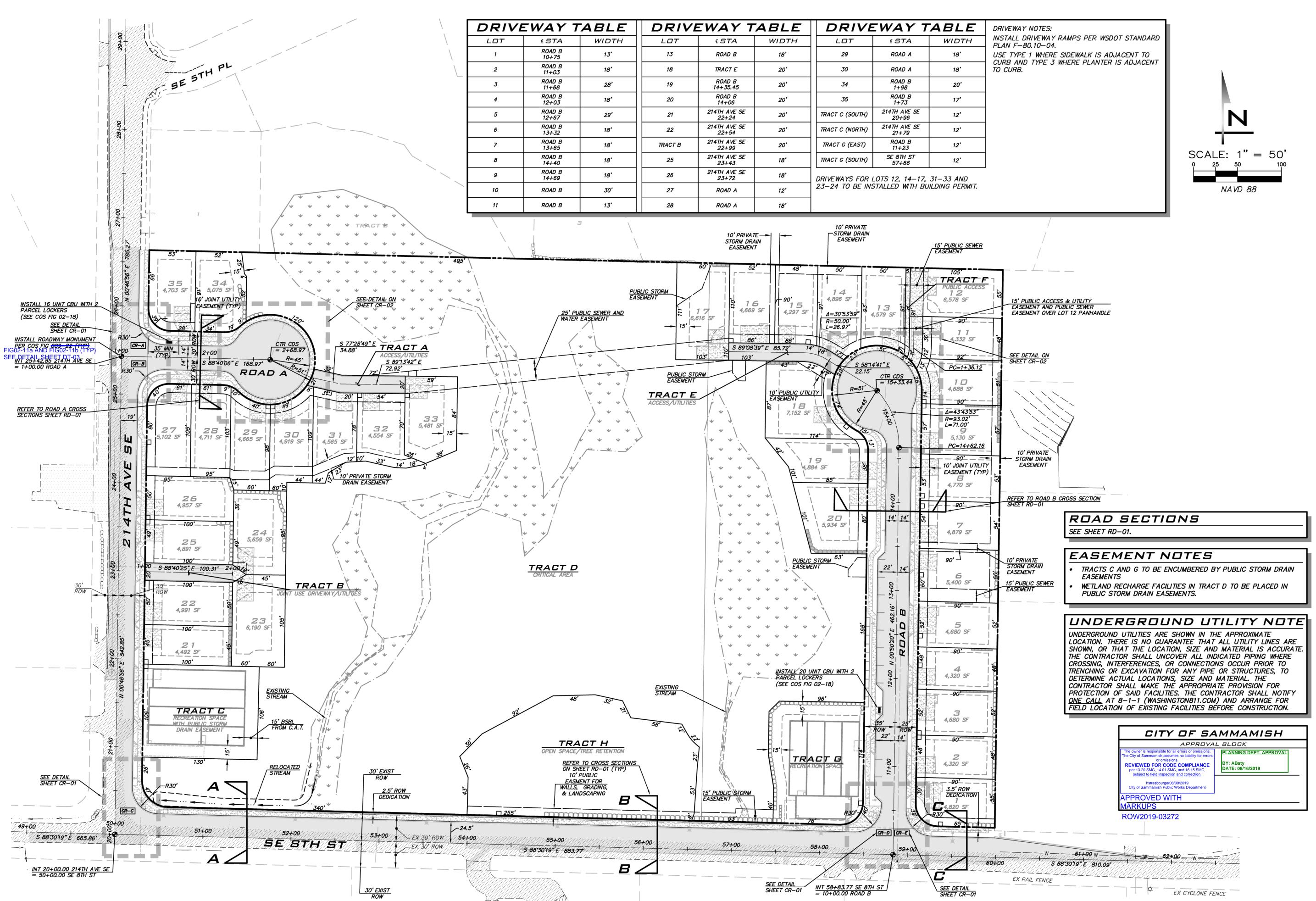
SHEET NAME:

GD-02

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ROCKERY DETAIL NOTE

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SCALE: AS NOTED PROJECT MANAGER:

BRETT K PUDISTS, PE PROJECT ENGINEER: BRETT K PUDISTS, PE

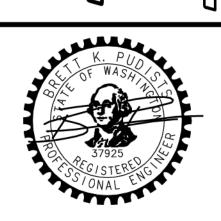
DESIGNER: AARON C LANCE ISSUE DATE: 8/5/2019

ND DATE BY REVISED PER CITY COMMENTS

2 7/26/19 ACL REVISED PER CITY COMMENTS, VAULT PLANS MODIFIED TO MATCH STRUCTURAL

3 8/5/19 RAB REVISED PER CITY COMMENTS

ARRIER SE BTH SUBDIVISION ROAD & STORM PLANS



8/5/19 OB NUMBER

JOB NUMBER: 1 **5 - 1 1 1** SHEET NAME:

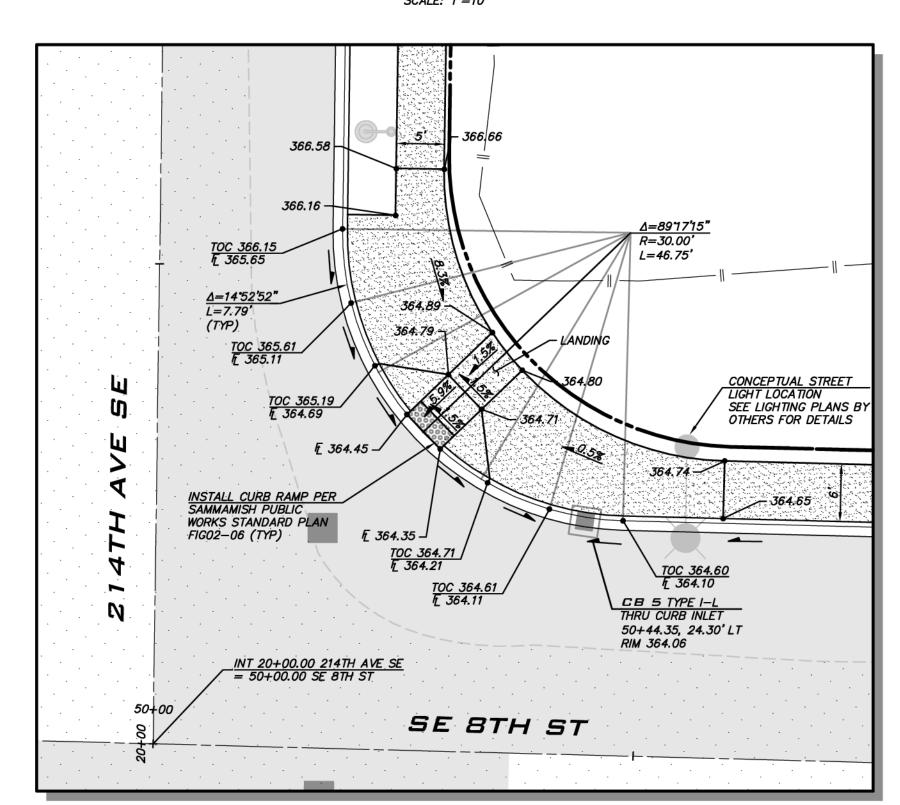
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CURB RAMP WIDTH 4 - OF MINI LANDING TO MATCH CURB RAMP WIDTH - SEE CONTRACT PLANS

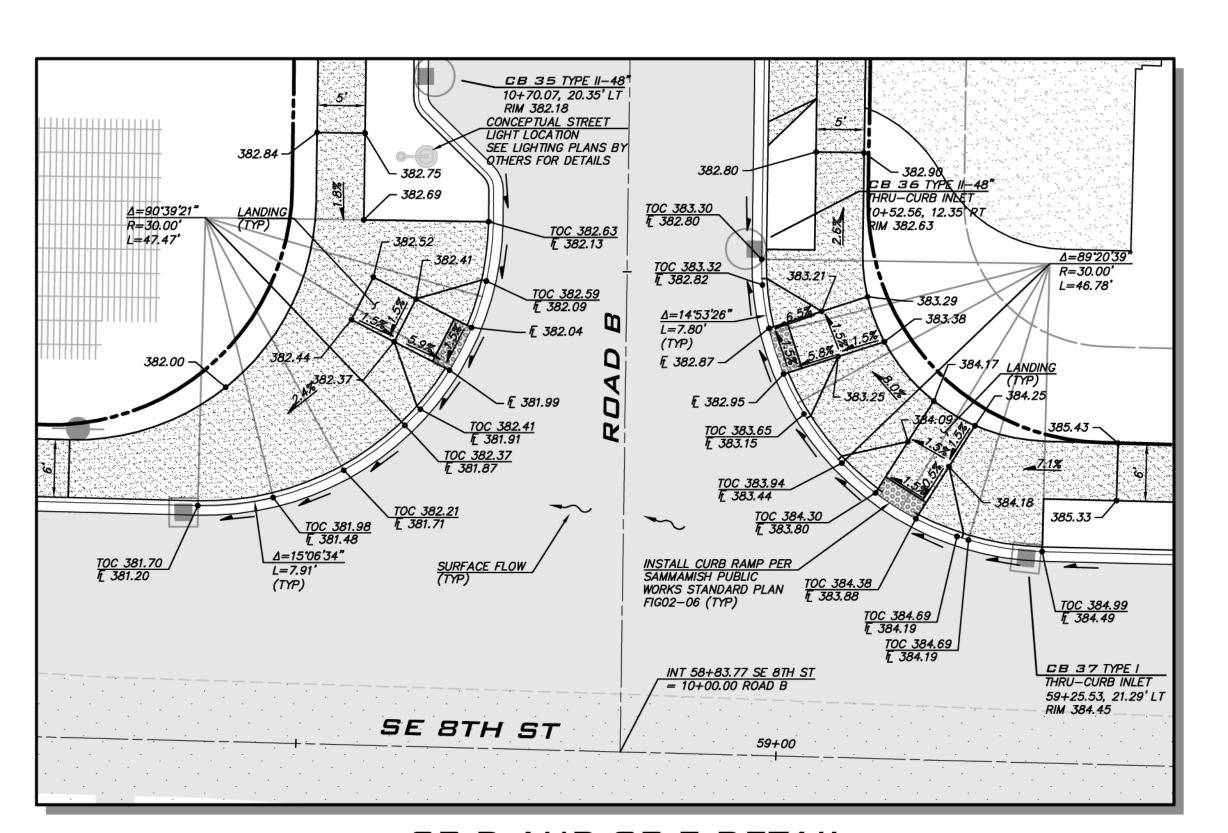
CR-A & CRB DETAIL

SEE LIGHTING PLANS BY OTHERS FOR DETAILS



CR-C DETAIL

 Curb Ramp, Landing, and Flares shall receive broom finish. See WSDOT STD Specifications 6-14. CEMENT CONCRETE CURB AND GUTTER - SEE NOTE 4 CURB RADIUS DETAIL (D) ISOMETRIC VIEW
TYPE PERPENDICULAR 8 PAY LIMIT ISOMETRIC VIEW TYPE PERPENDICULAR A PAY LIMIT CITY OF SAMMAMISH DEPARTMENT OF PUBLIC WORKS PERPENDICULAR CURB RAMP APPROVED BY XXX DATE FILE XXX AUG-XX-2015 FIGO2-0 XXX



CR-D AND CR-E DETAIL

BLUELINE

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

WWW.THEBLUELINEGROUP.COM AS NOTED

PROJECT MANAGER: BRETT K PUDISTS, PE

> PROJECT ENGINEER: BRETT K PUDISTS, PE DESIGNER:

AARON C LANCE

ISSUE DATE: 8/5/2019

84 AC B

CITY OF SAMMAMISH

APPROVAL BLOCK

or omissions.

REVIEWED FOR CODE COMPLIANCE subject to field inspection and correction

THE ADA RAMPS DEPICTED ON THESE APPROVED PLANS WERE DESIGNED

INSTALLED PER THE APPROVED PLANS AND/OR PER ACCEPTABLE ADA STANDARDS. ANY VARIATIONS IN THE INSTALLATION OF THE ADA RAMPS

FROM THE APPROVED PLANS THAT DOES NOT COMPLY WITH ADA STANDARDS SHOULD BE BROUGHT TO THE DESIGN ENGINEER'S ATTENTION

2. THE ADA RAMPS ARE DESIGNED TO MEET ADA STANDARDS IN PLACE AT THE TIME OF PROJECT VESTING. ANY VARIATION FROM THIS APPROVED DESIGN DURING CONSTRUCTION COULD RESULT IN ADA RAMPS THAT DO NOT COMPLY WITH THESE ADA STANDARDS. CONTRACTOR IS RESPONSIBLE FOR

3. LANDINGS DESIGNED TO BE 5'x5' MIN AND SLOPED TO NOT EXCEED 2% IN

ENSURING THAT AS-BUILT CONDITIONS MEET THE PLAN DESIGN AND/OR ADA

USING THE BEST AVAILABLE INFORMATION. THE CONTRACTOR IS REQUIRED TO USE THE BEST STANDARD OF CARE TO ENSURE THAT THESE RAMPS ARE

UNDERGROUND UTILITY NOTE

ADA RAMP NOTES

STANDARDS.

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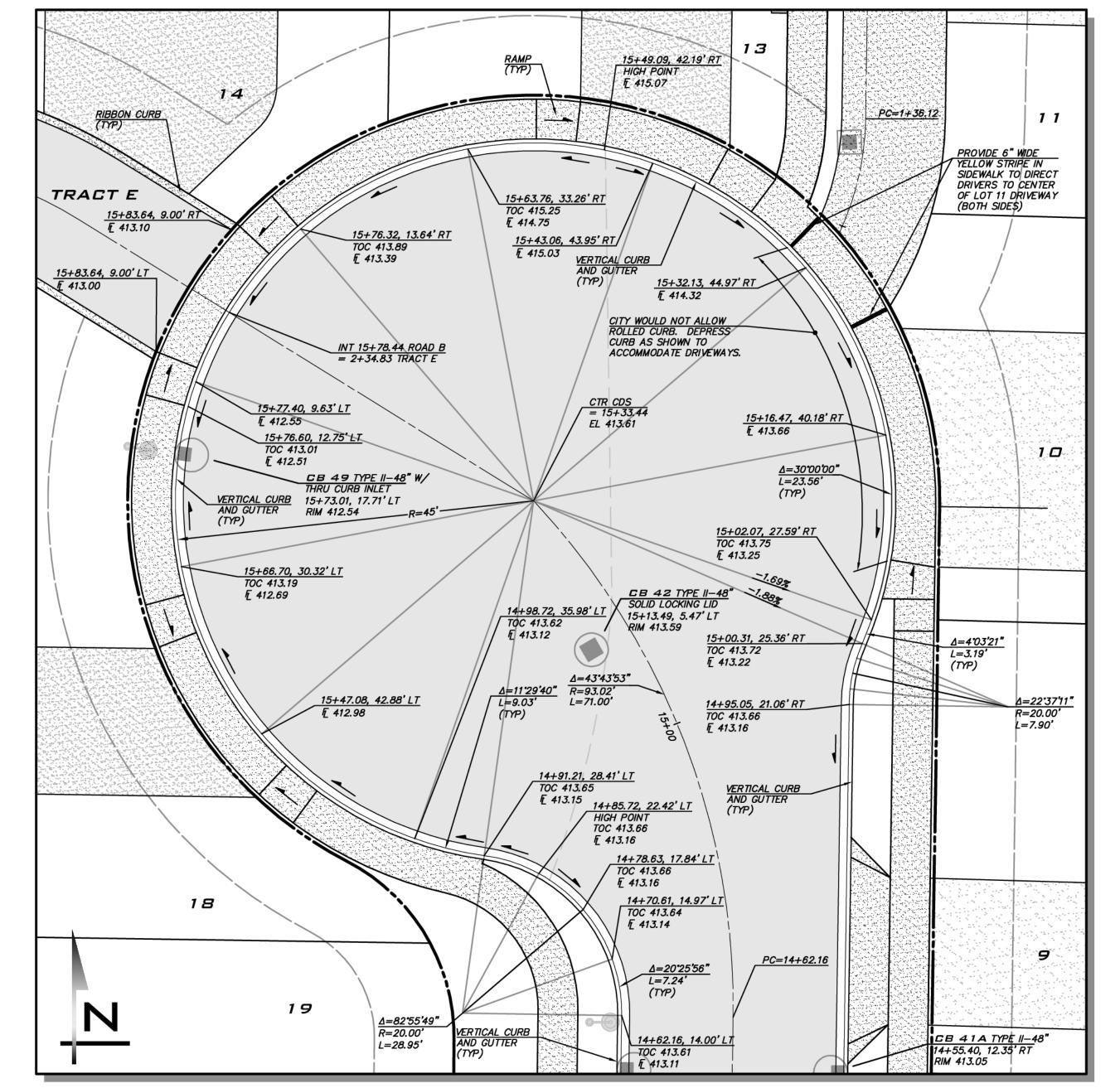
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SHEET NAME: CR-01

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CUL-DE-SAC ROAD A DETAIL



CUL-DE-SAC ROAD B DETAIL

CITY OF SAMMAMISH

APPROVAL BLOCK or omissions.

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8/5/19

15-111

SHEET NAME:

CR-02

sнт <u>14</u> ог <u>48</u>

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SCALE:

AS NOTED

DESIGNER:

AARON C LANCE

ISSUE DATE:

8/5/2019

PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER: BRETT K PUDISTS, PE

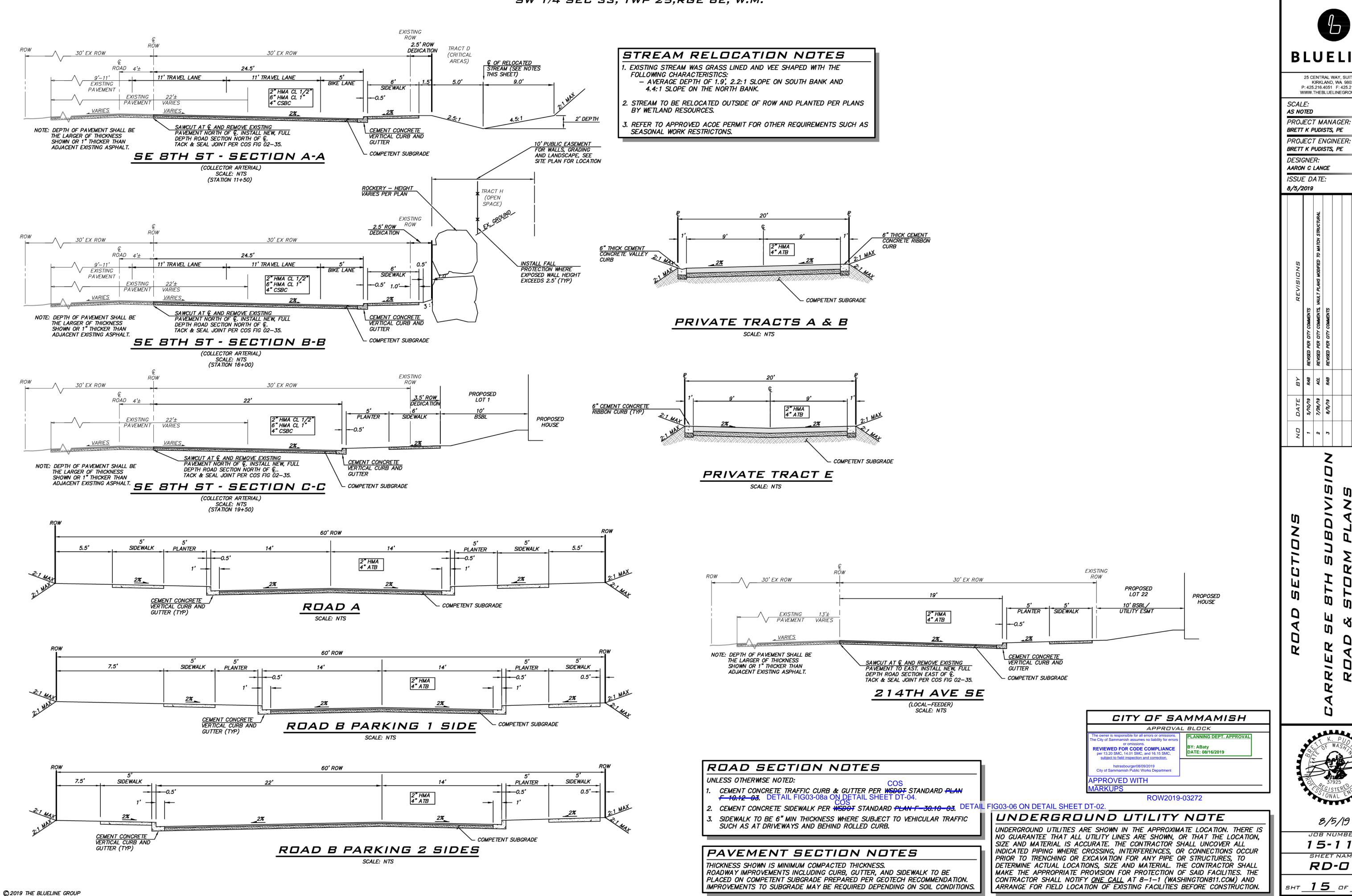
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CURB / SIDEWALK NOTE

SIDEWALK TO BE 6" THICK AT DRIVEWAYS WHERE SUBJECT TO VEHICULAR TRAFFIC (TYP).



BLUELINE

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

WWW.THEBLUELINEGROUP.COM SCALE:

PROJECT MANAGER: BRETT K PUDISTS, PE

BRETT K PUDISTS, PE DESIGNER:

AARON C LANCE

ISSUE DATE: 8/5/2019

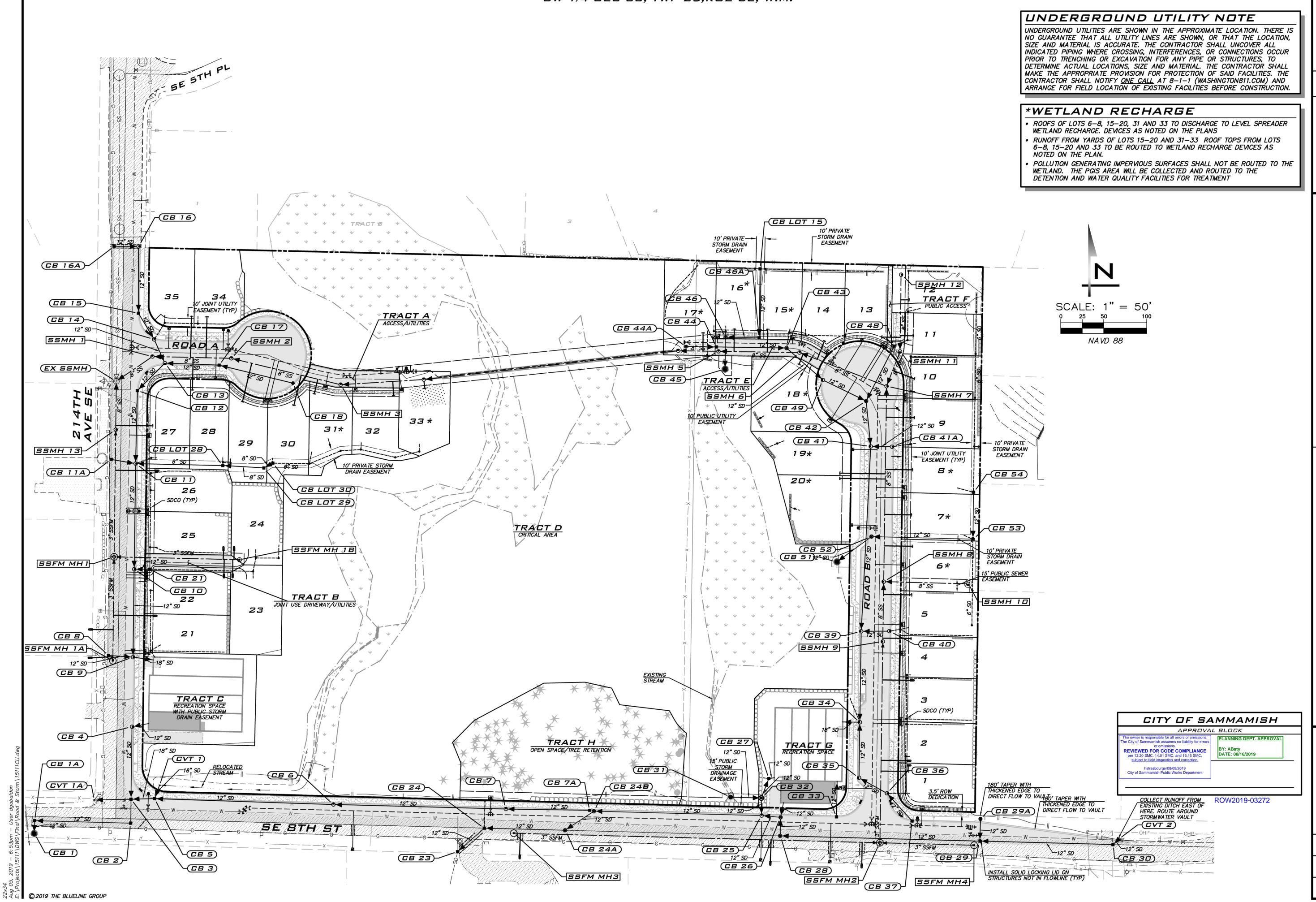
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RD-01

SHEET NAME:

sнт <u>15</u> ог <u>48</u>





BLUELINE
25 CENTRAL WAY, SUITE 400,

KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

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SCALE: AS NOTED

PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER:

BRETT K PUDISTS, PE

DESIGNER: AARON C LANCE

ISSUE DATE: 8/5/2019

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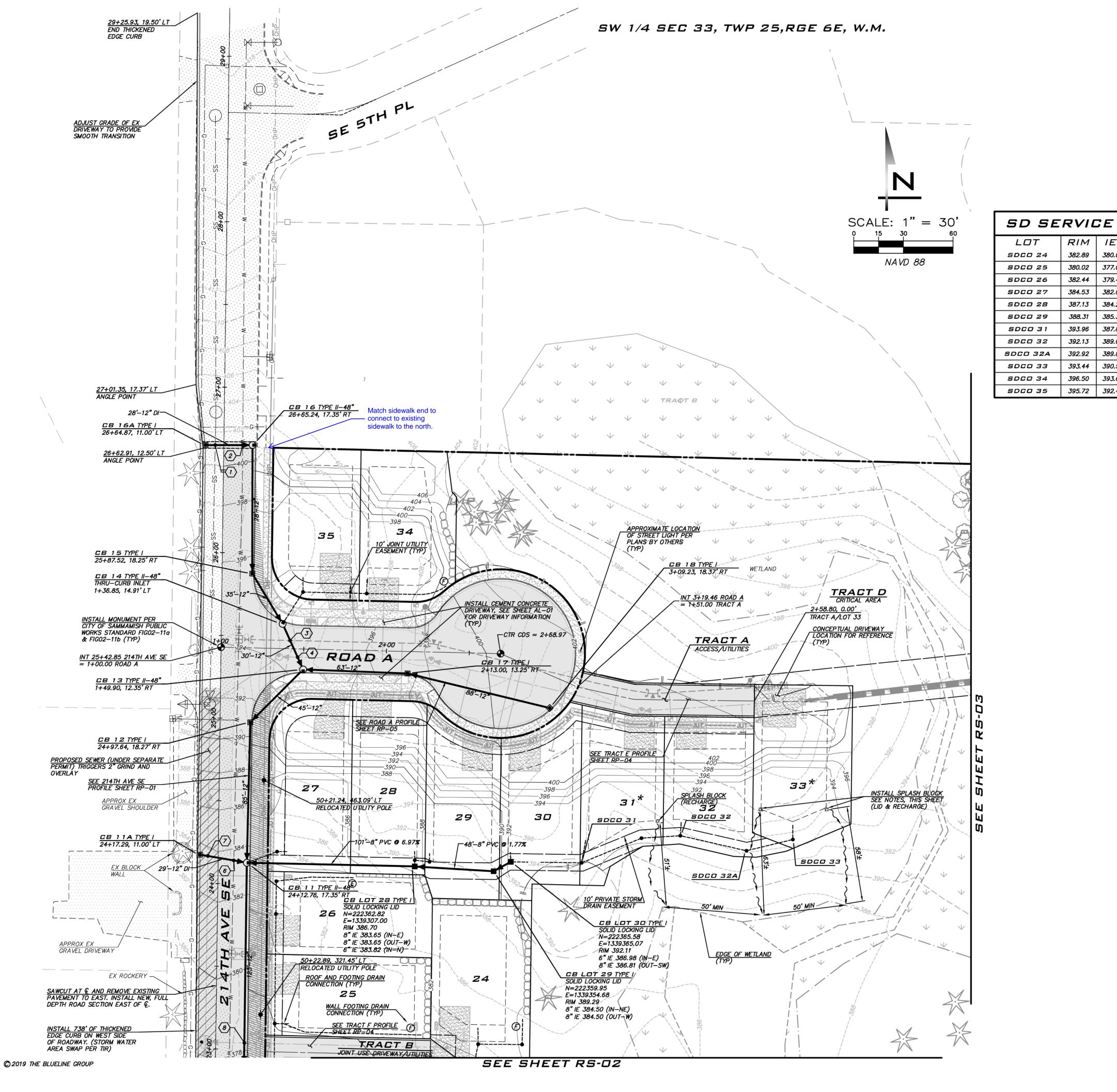
CARRIER SE BTH SUBDIVISION ROAD & STORM PLANS



8/5/19

JOB NUMBER: 1 **5 - 1 1 1** SHEET NAME:

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25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM

AS NOTED

PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER:

BRETT K PUDISTS, PE

DESIGNER:

AARON C LANCE ISSUE DATE:

8/5/2019

LID BMP NOTES

31 AND 33.

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380.02 377.0

382.44 379.4

384.53 382.0

387.13 384.2

392.13 389.0

392.92 389.8

393.44 | *390.5*

396.50 393.6

395.72 392.4

385.3

387.8

388.31

393.96

EDGE OF WETLAND.

LID SATISFIED ON A PLAT WIDE BASIS BY UTILIZING BASIC DISPERSION (SPLASH BLOCKS, DISPERSION TRENCHES AND REDUCED IMPERVIOUS COVERAGE).

DESIGN ALLOWS 600 TO 700 SF OF ROOF TO EACH SPLASH BLOCK ON LOTS

PROVIDE 50' MINIMUM OF VEGETATED FLOW PATH FROM SPLASH BLOCK TO

NOTE: SPLASH BLOCKS ARE REQUIRED TO MEET SEVERAL STORM WATER RELATED

REFER TO SHEET SD-02 FOR DETAILS.

SPLASH BLOCK NOTES

DESIGN ELEMENTS. DO NOT ELIMINATE.

LOT 33 TO HAVE 2 SPLASH BLOCKS.

LOT 31 TO HAVE 1 SPLASH BLOCK.

CROSSING NOTE

angle SEE SHEET GN-01 FOR UTILITY CROSSING INFORMATION.

DRY UTILITY NOTES

- LOCATION OF JOINT TRENCH SHOWN IS SCHEMATIC. REFER TO PLANS BY PSE FOR FINAL LOCATION.
- LOCATION OF STREET LIGHTS AND POLES IS SCHEMATIC. REFER TO PLANS BY OTHERS FOR DETAILS.

CONSTRUCTION NOTES

- SEE SHEETS RD-01 AND AL-01 FOR ROAD SECTIONS, CENTERLINE INFO, MONUMENTS, AND WIDTH OF PAVEMENT, TRACTS AND RIGHT OF WAY.
- STORM PIPE 12" AND LARGER TO BE LCPE WITH 2.0' MIN. COVER UNLESS OTHERWISE NOTED.
- 3. LOT DRAINS TO BE 6" PVC SDR 35 WITH 2% MIN SLOPE UNLESS OTHERWISE
- CATCH BASINS TO BE TYPE I (WSDOT STANDARD PLAN B-5.20-00) OR TYPE II (WSDOT STAND PLAN B-10.20-00) WITH LOCKING VANED GRATES UNLESS OTHERWISE NOTED.
- STORM DRAIN MANHOLES TO BE PER WSDOT STANDARD PLAN B-15.20-01 WITH CHANNELIZED BOTTOMS TO MINIMIZE MAINTENANCE.
- SOLID LOCKING LIDS ON CATCH BASINS SHALL BE ROUND DRAIN LIDS WHEN NOT LOCATED IN CURB AND GUTTER UNLESS OTHERWISE NOTED. COORDINATE WITH INSPECTOR TO DETERMINE METHOD FOR ADAPTING ROUND LIDS TO TYPE I CATCH BASINS.
- PROVIDE STEEL SLEEVE WHERE PIPES EXTEND BENEATH WALLS AND WHERE WALL OR BLDG FOOTINGS SURCHARGE PIPES.
- 8. REFER TO STANDARD DETAILS ON SHEETS DT-01 TO DT-04.
- 9. SEE SHEET GP-01 FOR PAD ELEVATIONS.
- 10. INSTALL "ONLY RAIN DOWN THE DRAIN" MARKERS ON ALL CATCH BASINS.
- 11. PROVIDE 8' SEPARATION BETWEEN STREET TREES AND STORM DRAIN. SEPARATION MAYBE REDUCED TO 3' IF ROOT BARRIER IS PROVIDED.
- 12. INSTALL 2' ASPHALT RING AROUND PUBLICLY OWNED CATCH BASINS THAT ARE INSTALLED OUTSIDE OF PAVED AREAS.

*WETLAND RECHARGE

- ROOFS OF LOTS 6-8, 15-20, 31 AND 33 TO DISCHARGE TO LEVEL SPREADER
- WETLAND RECHARGE. DEVICES AS NOTED ON THE PLANS
- RUNOFF FROM YARDS OF LOTS 15-20 AND 31-33 ROOF TOPS FROM LOTS 6-8, 15-20 AND 33 TO BE ROUTED TO WETLAND RECHARGE DEVICES AS NOTED ON THE PLAN.
- POLLUTION GENERATING IMPERVIOUS SURFACES SHALL NOT BE ROUTED TO THE WETLAND. THE PGIS AREA WILL BE COLLECTED AND ROUTED TO THE DETENTION AND WATER QUALITY FACILITIES FOR TREATMENT

CITY OF SAMMAMISH APPROVAL BLOCK

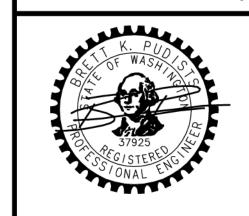
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ROW2019-03272

UNDERGROUND UTILITY NOTE

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8/5/19

15-111

SHEET NAME: RS-01

sнт <u>1</u>7 оғ <u>48</u>

WETLAND

6" CONC IE 385.54 (S)

52+98.37, 32.17'LT RELOCATED UTILITY POLE

DEDICATION

6" CONC IE 383.99 (N) TRACT D

CRITICAL AREA

OVERLAY BETWEEN CONSTRUCTION

EX 12" CMP IE

(ABANDON IN PLACE)

45 MAXIMUM ANGLE PERMITTED IN ORDER
TO SATISFY CONVEYANCE REQUIREMENTS

CB 24 TYPE I SOLID LOCKING LID

CB 23 TYPE I-L REPLACE EX CB

SOLID LOCKING LID

53+98.29, 28.14' RT

TO CONSTRUCTION

EX STORM SYSTEM PER CITY AS-BUILTS

CONTRACTOR TO VERIFY

EXISTING INVERTS PRIOR

CONNECT TO EX PIPE S

EX 12" PVC IE 365.73 (OUT-S)

54+28.56, 0.00°

TRAVEL WAY

ALIGNMENT AND PROPOSED EDGE OF

SEE SHEET RS-01

SMOOTH TRANSITION FROM EXISTING TO PROPOSED

/52+00

SE STH ST

CB 6 TYPE II—48"

52+52.51, 22.85' LT

SAWCUT AT © AND REMOVE EXISTING
PAVEMENT NORTH OF ©. INSTALL NEW, FULL

DEPTH ROAD SECTION NORTH OF Q.

STREAM CHANNEL

JOINT USE DRIVEWAY/UTILITIES

GB 21 TYPE I 1+06.08, 8.41' RT

DRIVEWAY INFORMATION (TYP)

CONNECTION (TYP)

APPROXIMATE LOCATION
OF STREET LIGHT PER

50+25.24, 141.41' LT

12" IE 362.40

RELOCATED UTILITY POLE

TRACT C

WITH PUBLIC STORM

DRAIN EASEMENT

18" INTAKE PIPE REQUIRED TO SATISFY INLET CONTROL CONVEYANCE REQUIREMENTS, SEE

STREAM OUTLET PROFILE SHEET RP-02

51+00

SEE SE 8TH ST PROFILE SHEET RP-02

(TO BE ABANDONED IN PLACE

PER SEWER & WATER PLANS

UNDER SEPARATE COVER)

2' WIDE PAVED ACCESS ROATO VAULT INLET AND OUTLET

50+36.99, 44.20' LT RELOCATED UTILITY ROLE

W/ TRASH RACK

-16'-18" DI @ 6.88%

THRU CURB INLET

└-27'-18" DI

SOLID LOCKING LID

THE PIPE SYSTEM BETWEEN CB 3 AND CB 1 (BUBBLE UP) IS

AN INTERIM SYSTEM THAT WILL BE ABANDONED AS PART OF THE CITY'S PLANNED IMPROVEMENTS TO REPLACE THE EXISTING

12" CONCRETE CULVERT BENEATH SE 8TH ST (STA 49+00±)

50+17.07, 22.93' LT

CB 2 TYPE + 2-48"

SOLID LOCKING LID

50+17.41, 4.99' RT

−28'−12" DI

50+44.35, 24.30'LT

50+49.73, 39.60'LT

<u>VALL FOOTING DRAIN</u>

ROOF AND FOOTING DRAIN



NAVD 88

 SD SERVICE

 LOT
 RIM
 IE

 SDCO 21
 374.38
 371.5

 SDCO 22
 377.17
 374.2

 SDCO 23
 381.58
 376.6

BLUELINE

25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM

AS NOTED

PROJECT MANAGER: BRETT K PUDISTS, PE

> DESIGNER: AARON C LANCE

ISSUE DATE:

8/5/2019

PROJECT ENGINEER: BRETT K PUDISTS, PE

BUILD AND STABILIZE RELOCATED STREAM CHANNEL AND OUTFALL PIPE BEFORE CONNECTING TO EXISTING STREAM.

LID BMP NOTES

• LID SATISFIED ON A PLAT WIDE BASIS BY UTILIZING BASIC DISPERSION (SPLASH BLOCKS, DISPERSION TRENCHES AND REDUCED IMPERVIOUS COVERAGE).

RELOCATED STREAM NOTES

REFER TO PERMITS FROM USACE AND WDFW FOR ADDITIONAL REQUIREMENTS

STREAM RELOCATION TO OCCUR DURING DRY SEASON WHEN STREAM IS NOT

REFER TO SHEET SD-02 FOR DETAILS.

ASSOCIATED WITH RELOCATED STREAM.

CROSSING NOTE

SEE SHEET GN-01 FOR UTILITY CROSSING INFORMATION.

DRY UTILITY NOTES

- 1. LOCATION OF JOINT TRENCH SHOWN IS SCHEMATIC. REFER TO PLANS BY PSE FOR FINAL LOCATION.
- LOCATION OF STREET LIGHTS AND POLES IS SCHEMATIC. REFER TO PLANS BY OTHERS FOR DETAILS.

CONSTRUCTION NOTES

- 1. SEE SHEETS RD-01 AND AL-01 FOR ROAD SECTIONS, CENTERLINE INFO, MONUMENTS, AND WIDTH OF PAVEMENT, TRACTS AND RIGHT OF WAY.
- 2. STORM PIPE 12" AND LARGER TO BE LCPE WITH 2.0' MIN. COVER UNLESS OTHERWISE NOTED.
- 3. LOT DRAINS TO BE 6" PVC SDR 35 WITH 2% MIN SLOPE UNLESS OTHERWISE
- 4. CATCH BASINS TO BE TYPE I (WSDOT STANDARD PLAN B-5.20-00) OR TYPE II (WSDOT STAND PLAN B-10.20-00) WITH LOCKING VANED GRATES UNLESS OTHERWISE NOTED.
- 5. STORM DRAIN MANHOLES TO BE PER WSDOT STANDARD PLAN B-15.20-01 WITH CHANNELIZED BOTTOMS TO MINIMIZE MAINTENANCE.
- 6. SOLID LOCKING LIDS ON CATCH BASINS SHALL BE ROUND DRAIN LIDS WHEN NOT LOCATED IN CURB AND GUTTER UNLESS OTHERWISE NOTED. COORDINATE WITH INSPECTOR TO DETERMINE METHOD FOR ADAPTING ROUND LIDS TO TYPE I CATCH BASINS.
- PROVIDE STEEL SLEEVE WHERE PIPES EXTEND BENEATH WALLS AND WHERE WALL OR BLDG FOOTINGS SURCHARGE PIPES.
- 8. REFER TO STANDARD DETAILS ON SHEETS DT-01 TO DT-04.
- 9. SEE SHEET GP-01 FOR PAD ELEVATIONS.
- 10. INSTALL "ONLY RAIN DOWN THE DRAIN" MARKERS ON ALL CATCH BASINS.
- 11. PROVIDE 8' SEPARATION BETWEEN STREET TREES AND STORM DRAIN.
 SEPARATION MAYBE REDUCED TO 3' IF ROOT BARRIER IS PROVIDED.
- 12. INSTALL 2' ASPHALT RING AROUND PUBLICLY OWNED CATCH BASINS THAT ARE INSTALLED OUTSIDE OF PAVED AREAS.

*WETLAND RECHARGE

- ROOFS OF LOTS 6-8, 15-20, 31 AND 33 TO DISCHARGE TO LEVEL SPREADER WETLAND RECHARGE. DEVICES AS NOTED ON THE PLANS
- RUNOFF FROM YARDS OF LOTS 15-20 AND 31-33 ROOF TOPS FROM LOTS 6-8, 15-20 AND 33 TO BE ROUTED TO WETLAND RECHARGE DEVICES AS NOTED ON THE PLAN.
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CITY OF SAMMAMISH

The owner is responsible for all errors or omissions.
The City of Sammamish assumes no liability for errors or omissions.

REVIEWED FOR CODE COMPLIANCE per 13.20 SMC, 14.01 SMC, and 16.15 SMC, subject to field inspection and correction.

hstrasbourger08/09/2019

City of Sammamish Public Works Department

APPROVED WITH

ROW2019-03272

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DATE BY REVISED PER CITY COMMENTS
7/26/19 ACL REVISED PER CITY COMMENTS, VAULT PLANS MODIFIED ACL REVISED PER CITY COMMENTS

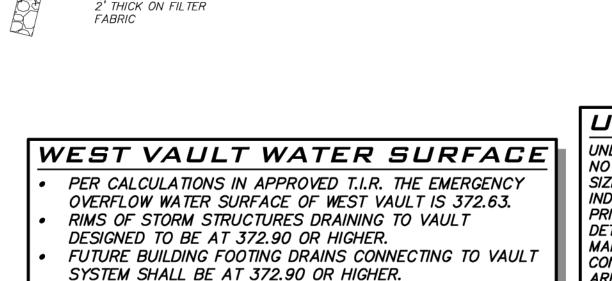
ROAD & STORM DRAINAGE PLAN VER SE BTH SUBDIVISION OAD & STORM PLANS

X. PUO F WASH AS O 37925 SSO ISTERED TO SO ON AL ENGLISHING

8/5/19

15-111 SHEET NAME:

RS-02 sht 18 of 48



-41'-12" DI

W/ 7'x12' RIPRAP PAD

INSTALL 738' OF THICKENEL EDGE CURB ON WEST SIDE

OF ROADWAY. (STORM WATER AREA SWAP PER TIR)

SEE 214TH AVE SE PROFILE SHEET RP-01

EX ROCKERY

21+88.13, 12.50' LT START THICKENED

<u>CB 9 TYPE II-48"</u> 21+87.86, 17.35' RT

<u>CB 4 TYPE II-48"</u> 21+06.91, 17.35' RT

EDGE CURB

SAWCUT AT © AND REMO EXISTING PAVEMENT TO

EAST. INSTALL NEW, FULL

DEPTH ROAD SECTION EAST

(TO BE REPLACED)

(TO BE REMOVED)

49+74.57, 20.80'LT

12" CONC IE 360.98 (E) (TO BE REMOVED)

49+05.68, 5.00' RT

<u> 15′−12″ DÎ</u>

SEE SE 8TH ST PROFILE SHEET RP-02

BUBBLE UP STRUCTURE

49+05.47, 19.91° RT

-12" CONC IE 359.6 (N)

W/ BIRD CAGE AND ROCK PAD

(SEE DETAIL SHEET DT-04)

INT 20+00.00 214TH AVE SE = 50+00.00 SE 8TH ST

INSTALL MONUMENT PER CITY OF SAMMAMISH PUBLIC

WORKS STANDARD FIG02-11a

NOTE

-12" CONC IE 360.36 (S)

SEE SHEET RS-04

LOT	RIM	ΙE
SDCO 9	413.96	406.7
SDCO 10	411.71	407.9
SDCO 11	416.73	413.7
SDCO 12	419.36	415.7
SDCO 13	414.05	411.1
SDCO 14	412.21	409.3
SDCO 15	410.34	407.3
SDCO 16	407.75	402.6
SDCO 17	405.88	402.9
SDCO 17S	404.41	402.4
SDCO 185	402.00	399.1
SDCO 195	402.79	399.4
SDCO 205	401.75	397.6
YD 11	426.44	423.4
YD 12	422.92	419.9
YD 12A	427.16	424.2
YD 128	427.88	427.3
YD 13	418.69	415.6
YD 14	417.34	414.2
YD 16	417.17	412.8
·		

SD SERVICE

FRENCH DRAIN NOTES

- REFER TO SHEET SD-02 FOR FRENCH DRAIN DETAIL
- COLLECTOR PIPE TO BE PERFORATED PVC SLOPED AT 2% MIN
- CONNECT COLLECTOR PIPE TO DRAINAGE STRUCTURE WIT NON-PERFORATED, SOLID WALL PVC PIPE @ 2% MIN
- FRENCH DRAINS TO BE INSTALLED AT LOCATIONS SHOWN WILL BE PRIVATELY

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CITY OF SAMMAMISH

LANNING DEPT. APPROVAL

APPROVAL BLOCK REVIEWED FOR CODE COMPLIANCE subject to field inspection and correction

City of Sammamish Public Works Dep

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KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

WWW.THEBLUELINEGROUP.COM

AS NOTED PROJECT MANAGER:

> BRETT K PUDISTS, PE PROJECT ENGINEER:

BRETT K PUDISTS, PE

DESIGNER:

AARON C LANCE ISSUE DATE: 8/5/2019

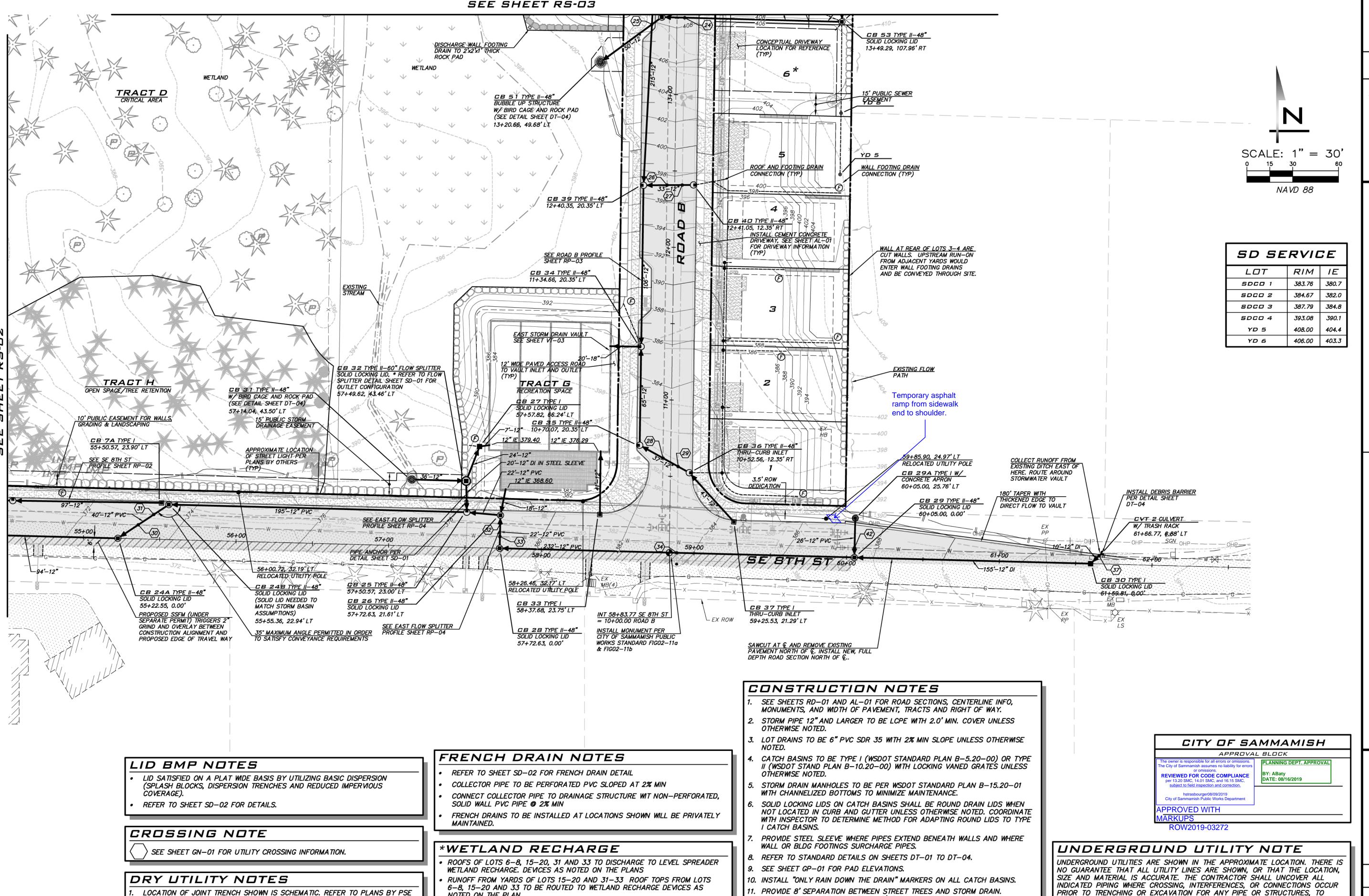
REVISIONS	REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS, VAULT PLANS MODIFIED TO MATCH STRUCTURA	REVISED PER CITY COMMENTS			
ВУ	RAB	ACL	RAB			
ID DATE	5/10/19	1/26/19	8/5/19			
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8/5/19

15-111 SHEET NAME:

RS-03 sнт **19** ог **48**



SEPARATION MAYBE REDUCED TO 3' IF ROOT BARRIER IS PROVIDED.

ARE INSTALLED OUTSIDE OF PAVED AREAS.

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BLUELINE

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SCALE: AS NOTED

PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER: BRETT K PUDISTS, PE

DESIGNER: AARON C LANCE

ISSUE DATE: 8/5/2019

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8/5/19

DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL

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15-111

SHEET NAME: RS-04

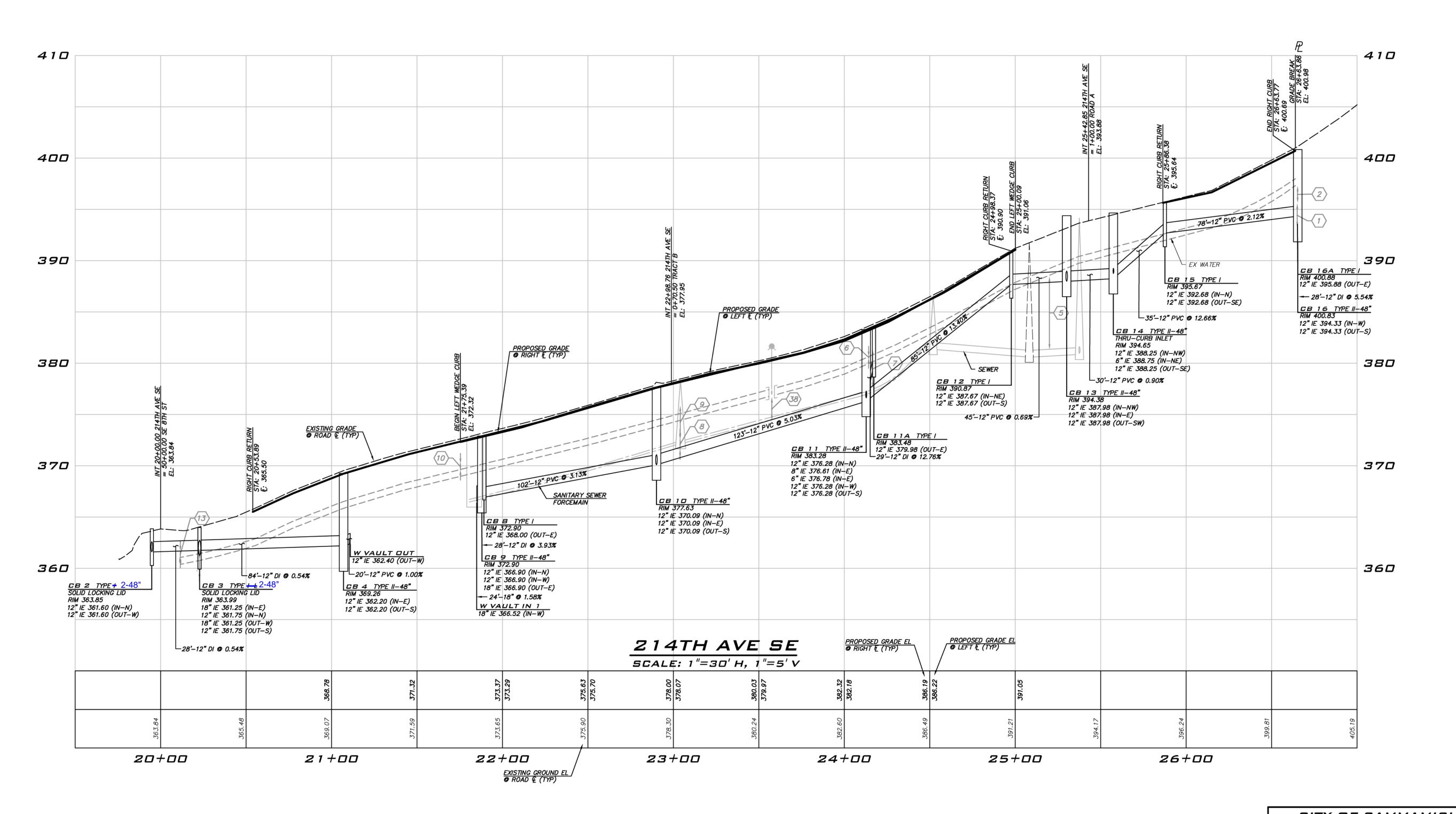
<u> 20</u> of <u>48</u>

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FOR FINAL LOCATION.

OTHERS FOR DETAILS.

LOCATION OF STREET LIGHTS AND POLES IS SCHEMATIC. REFER TO PLANS BY





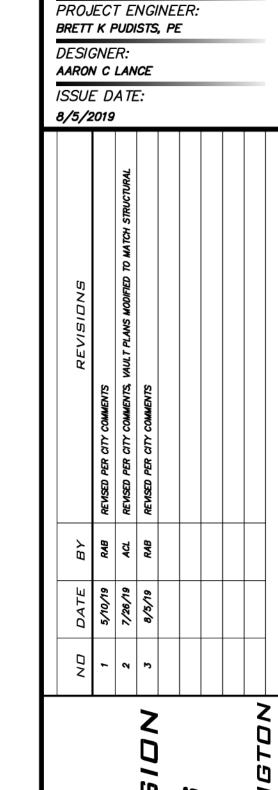
hstrasbourger08/09/2019
City of Sammamish Public Works Department

APPROVED WITH

MARKUPS
ROW2019-03272

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PROJECT MANAGER: BRETT K PUDISTS, PE

SCALE: AS NOTED

> CARRIER SE BTH SUBDIVIE ROAD & STORM PLANS

K. PUD SKILL OF WASHING 37925 ONAL ENG

8/5/19

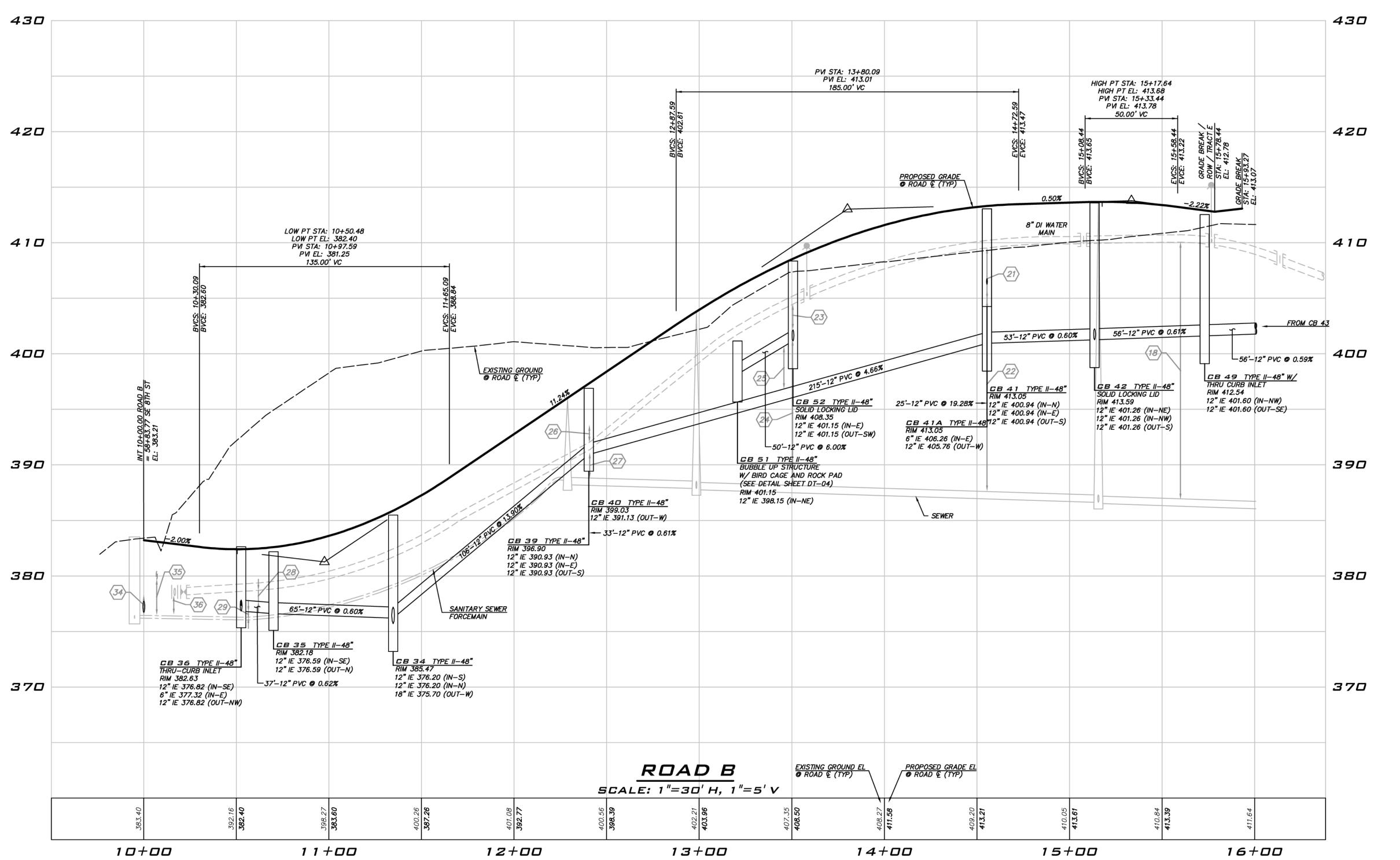
1 5-1 1 1 SHEET NAME:

RP-01 sht 21 of 48

CROSSING NOTE

SEE SHEET GN-01 FOR UTILITY CROSSING INFORMATION.

22x34



CITY OF SAMMAMISH

or omissions.

REVIEWED FOR CODE COMPLIANCE
per 13.20 SMC, 14.01 SMC, and 16.15 SMC,
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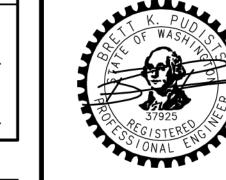
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APPROVAL BLOCK



8/5/19

15-111

SHEET NAME: RP-03

BLUELINE

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

WWW.THEBLUELINEGROUP.COM

PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER: BRETT K PUDISTS, PE

SCALE:

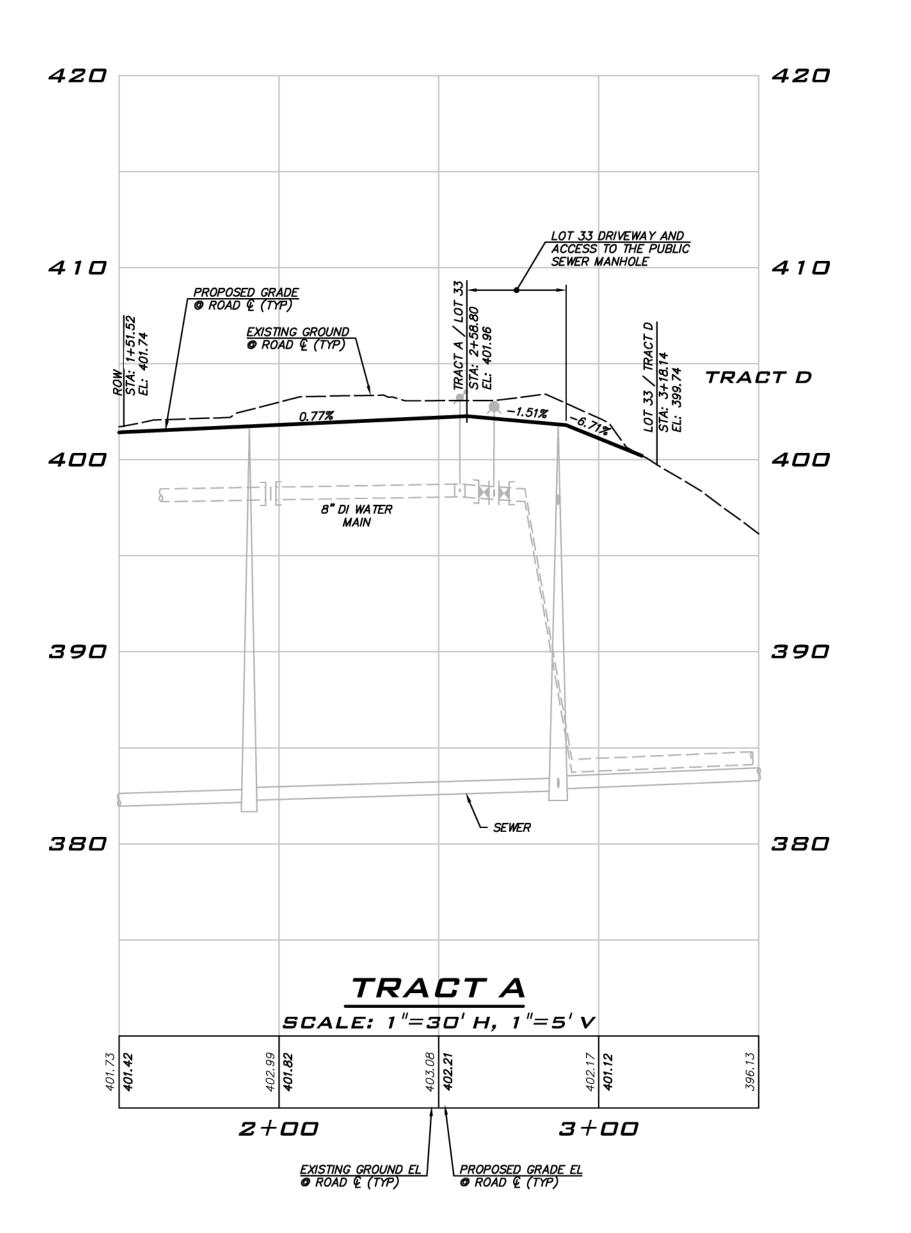
AS NOTED

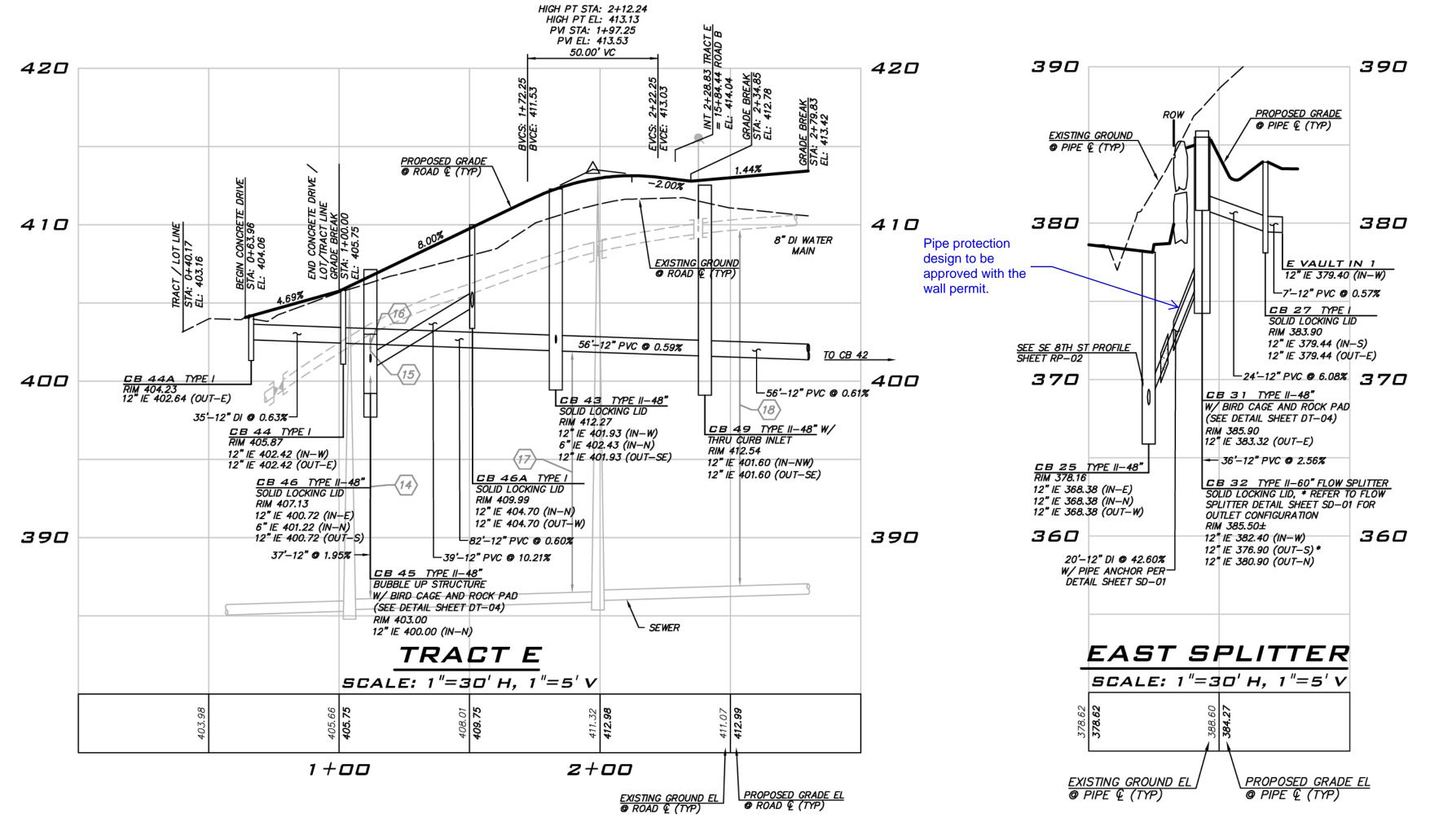
DESIGNER: AARON C LANCE ISSUE DATE: 8/5/2019

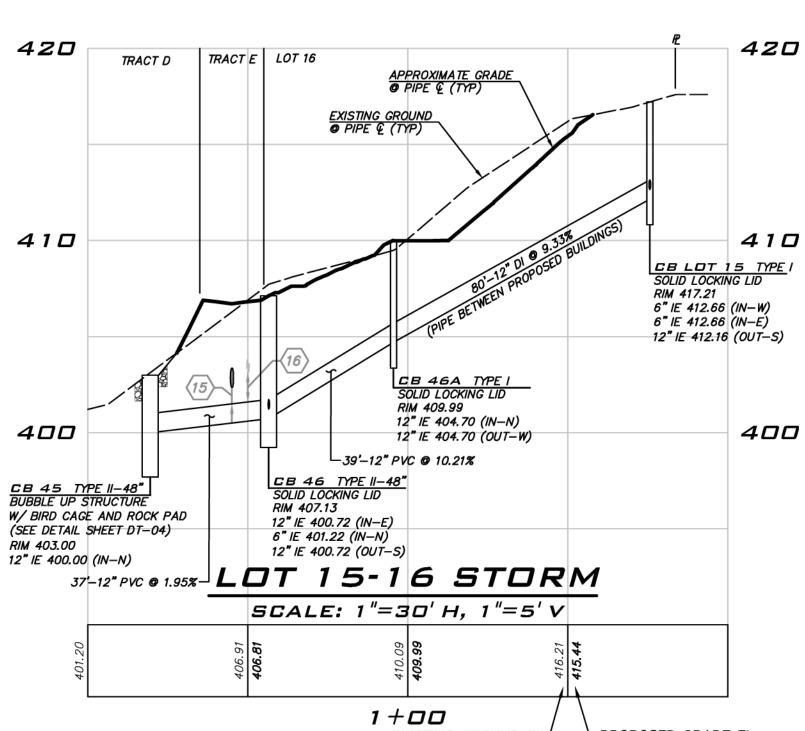
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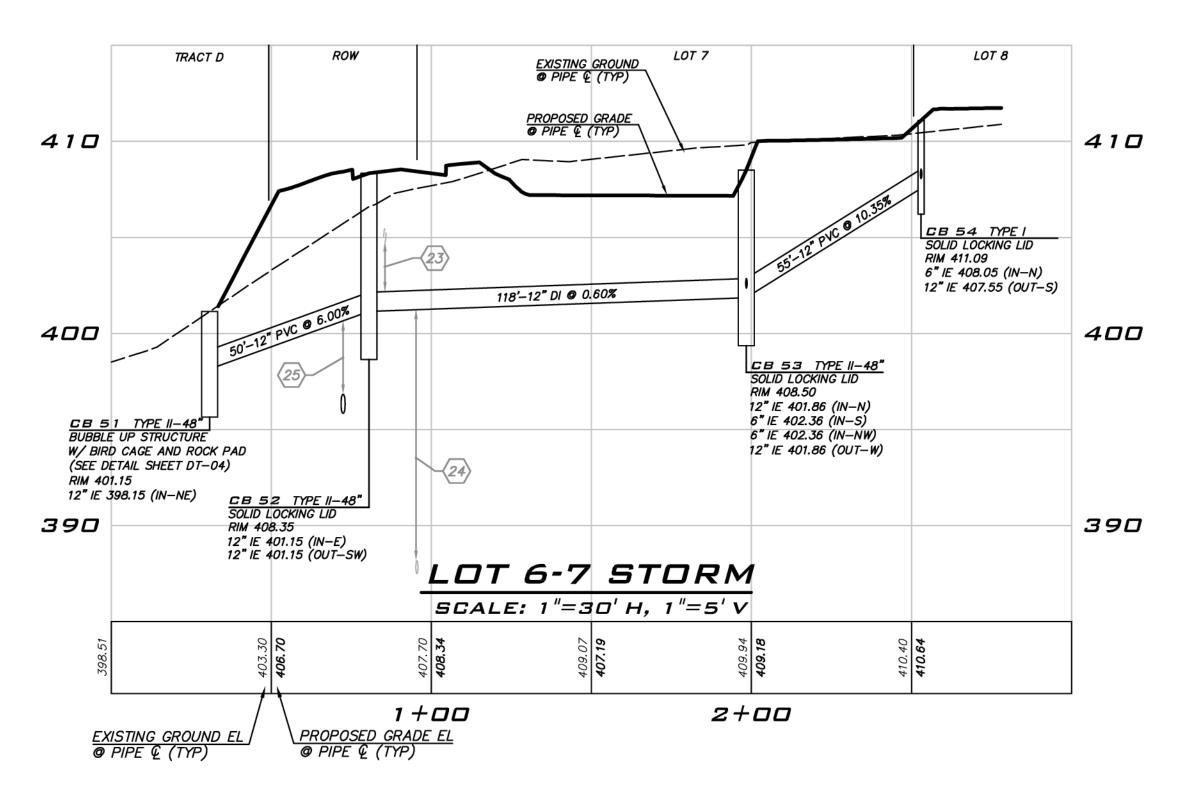
CROSSING NOTE

SEE SHEET GN-01 FOR UTILITY CROSSING INFORMATION.









CROSSING NOTE

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CITY OF SAMMAMISH APPROVAL BLOCK or omissions. REVIEWED FOR CODE COMPLIANCE subject to field inspection and correction hstrasbourger08/09/2019 City of Sammamish Public Works Departr PPROVED WITH

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8/5/2019

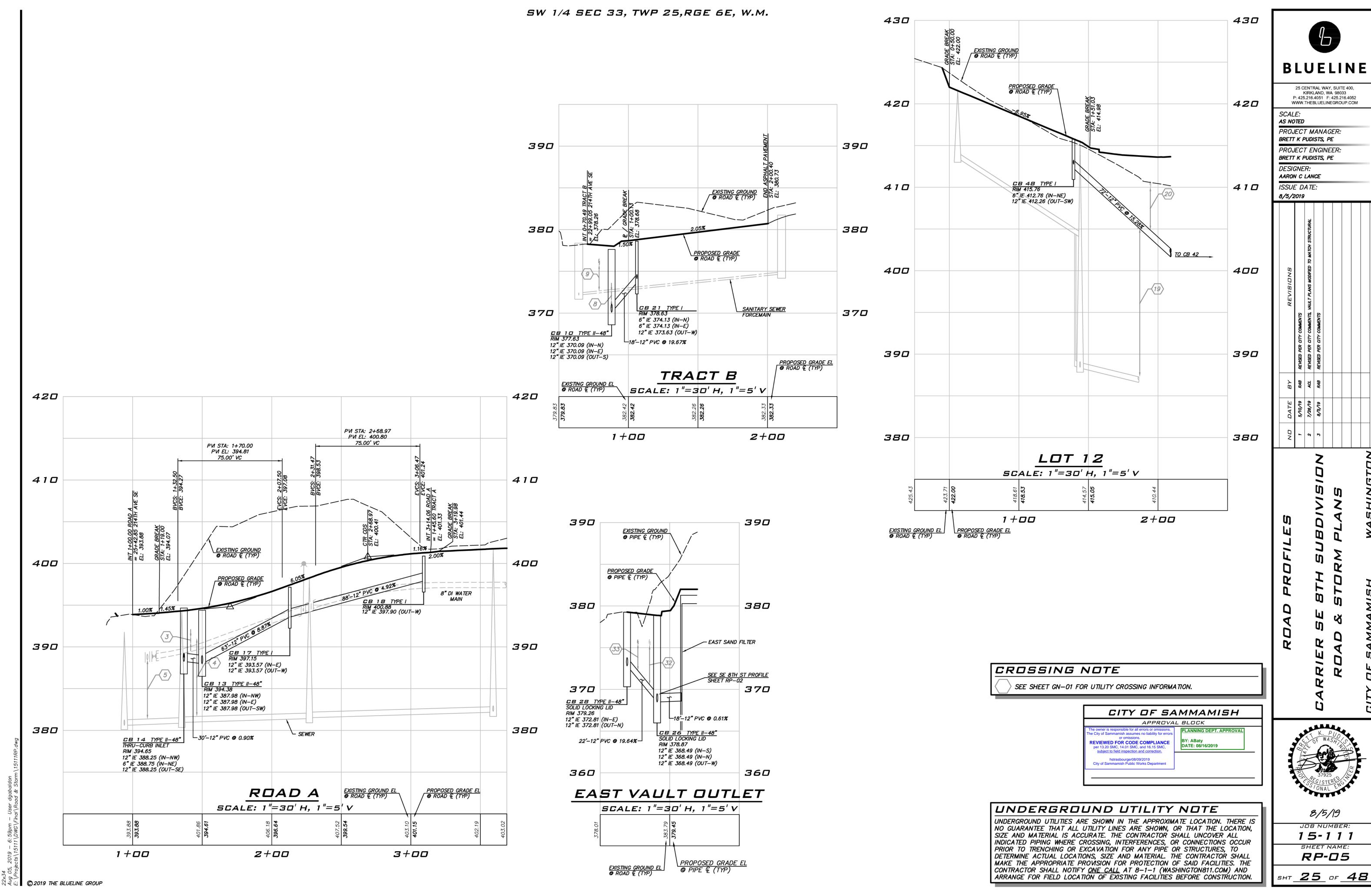
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8/5/19

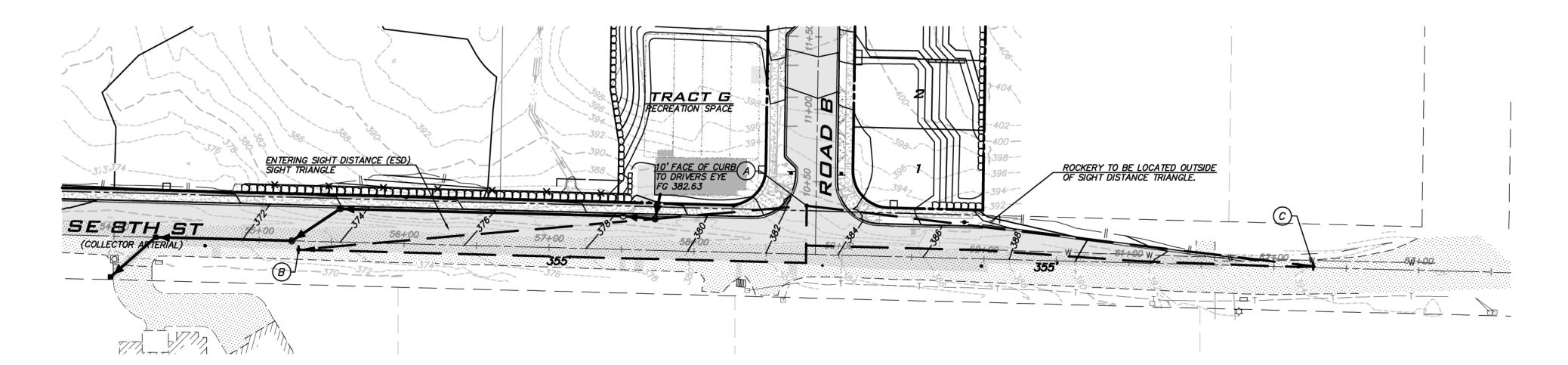
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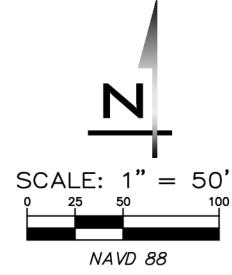
RP-04

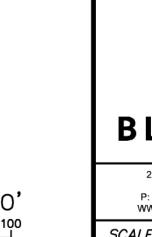
<u> 24</u> of <u>48</u>



22x34







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ISSUE DATE:

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	REVISIONS	REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS, VAULT PLANS MODIFIED TO MATCH STRUCTURAL	REVISED PER CITY COMMENTS			
	ВУ	RAB	ACL	RAB			
	DATE	5/10/19	7/26/19	8/5/19			
	ND	1	2	ъ			

ESD SIGHT TRIANGLE NOTES

AREAS WITHIN THE ESD SIGHT TRIANGLES SHALL BE KEPT CLEAR OF OBSTRUCTIONS TO A MOTOR VEHICLE OPERATOR'S VIEW BETWEEN A HEIGHT OF 3' AND 10' ABOVE THE EXISTING SURFACE OF THE STREET. MINOR OBSTRUCTIONS SUCH AS UTILITY POLES, TRIMMED TREES, ETC MAY BE ALLOWED AS SPECIFIED IN PWS.15.180.

NOTES

POSTED SPEED = 25 MPH

2. SIGHT DISTANCE PARAMETERS PER 2000 CITY OF SAMMAMISH INTERIM PUBLIC WORKS STANDARDS (PWS)

ESD INFO

EYE HEIGHT — ENTERING: 3.5'

VEHICLE HEIGHT — APPROACHING: 4.25'

DESIGN SPEED: 30 M

MEASURED AT: 10' FROM TRAVEL LANE

REQUIRED ESD: =

PROVIDED ESD:

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The owner is responsible for all errors or omissions.
The City of Sammamish assumes no liability for errors or omissions.

REVIEWED FOR CODE COMPLIANCE per 13.20 SMC, 14.01 SMC, and 16.15 SMC, subject to field inspection and correction.

ODE COMPLIANCE
SMC, and 16.15 SMC, ection and correction.

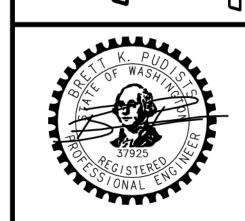
er08/09/2019

BY: ABaty
DATE: 08/16/2019

ROW2019-03272

UNDERGROUND UTILITY NOTE

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

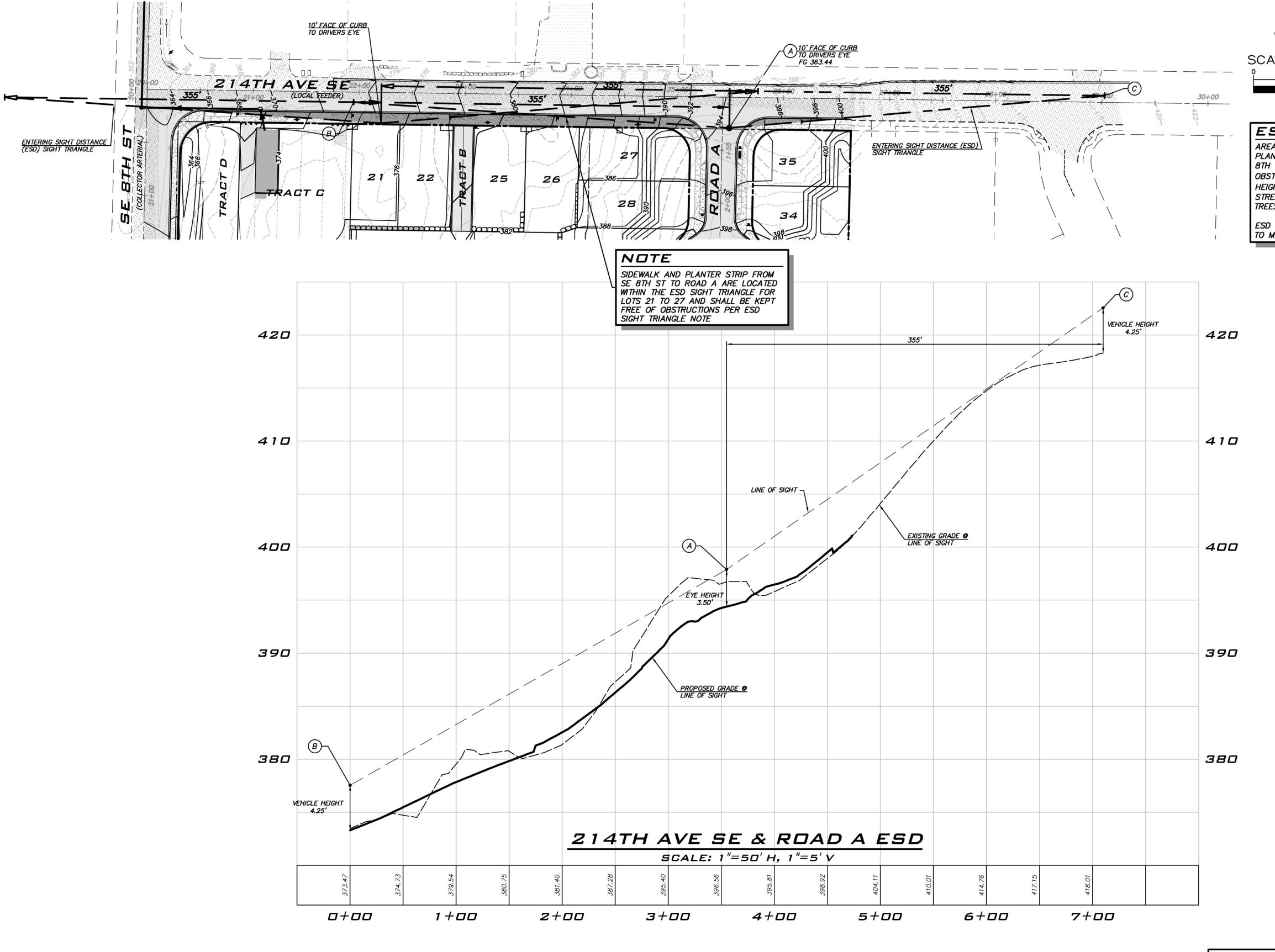


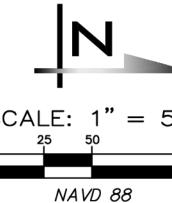
8/5/19

15-111 SHEET NAME: ESD-01

sнт <u>26</u> ог <u>48</u>

400 400 VEHICLE HEICHT 390 390 LINE OF SIGHT (BEYOND LIMITS OF SURVEY) EYE HEIGHT 3.50' 380 380 VEHICLE HEIGHT 370 370 8TH ST SE & ROAD B ESD SCALE: 1"=50' H, 1"=5' V 7+00 0+00 1 +00 2+00 3+00 4+00 5+00 6+00





ESD SIGHT TRIANGLE NOTES

AREAS WITHIN THE ESD SIGHT TRIANGLES, INCLUDING THE ENTIRE PLANTER STRIP ON THE E. SIDE OF 214TH AVE SE BETWEEN SE 8TH STREET AND ROAD A, SHALL BE KEPT CLEAR OF OBSTRUCTIONS TO A MOTOR VEHICLE OPERATOR'S VIEW BETWEEN A HEIGHT OF 3' AND 10' ABOVE THE EXISTING SURFACE OF THE STREET. MINOR OBSTRUCTIONS SUCH AS UTILITY POLES, TRIMMED TREES, ETC MAY BE ALLOWED AS SPECIFIED IN PWS.15.180.

ESD WAS EVALUATED FOR LOTS 21-26 AND TRACT B AND FOUND TO MEET STANDARDS.

NOTES

- 1. POSTED SPEED = 25 MPH
- 2. SIGHT DISTANCE PARAMETERS PER 2000 CITY OF SAMMAMISH INTERIM PUBLIC WORKS STANDARDS (PWS)

ESD INFO

PROVIDED ESD:

EYE HEIGHT — ENTERING: VEHICLE HEIGHT - APPROACHING: 4.25' MEASURED AT: 10' FROM TRAVEL LANE

DESIGN SPEED: 30 MPH REQUIRED ESD: *355'*

355'

CITY OF SAMMAMISH

APPROVAL BLOCK or omissions.

REVIEWED FOR CODE COMPLIANCE

per 13.20 SMC, 14.01 SMC, and 16.15 SMC,
 subject to field inspection and correction.

ROW2019-03272

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

WWW.THEBLUELINEGROUP.COM SCALE:

AS NOTED PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER: BRETT K PUDISTS, PE

DESIGNER: AARON C LANCE

ISSUE DATE: 8/5/2019

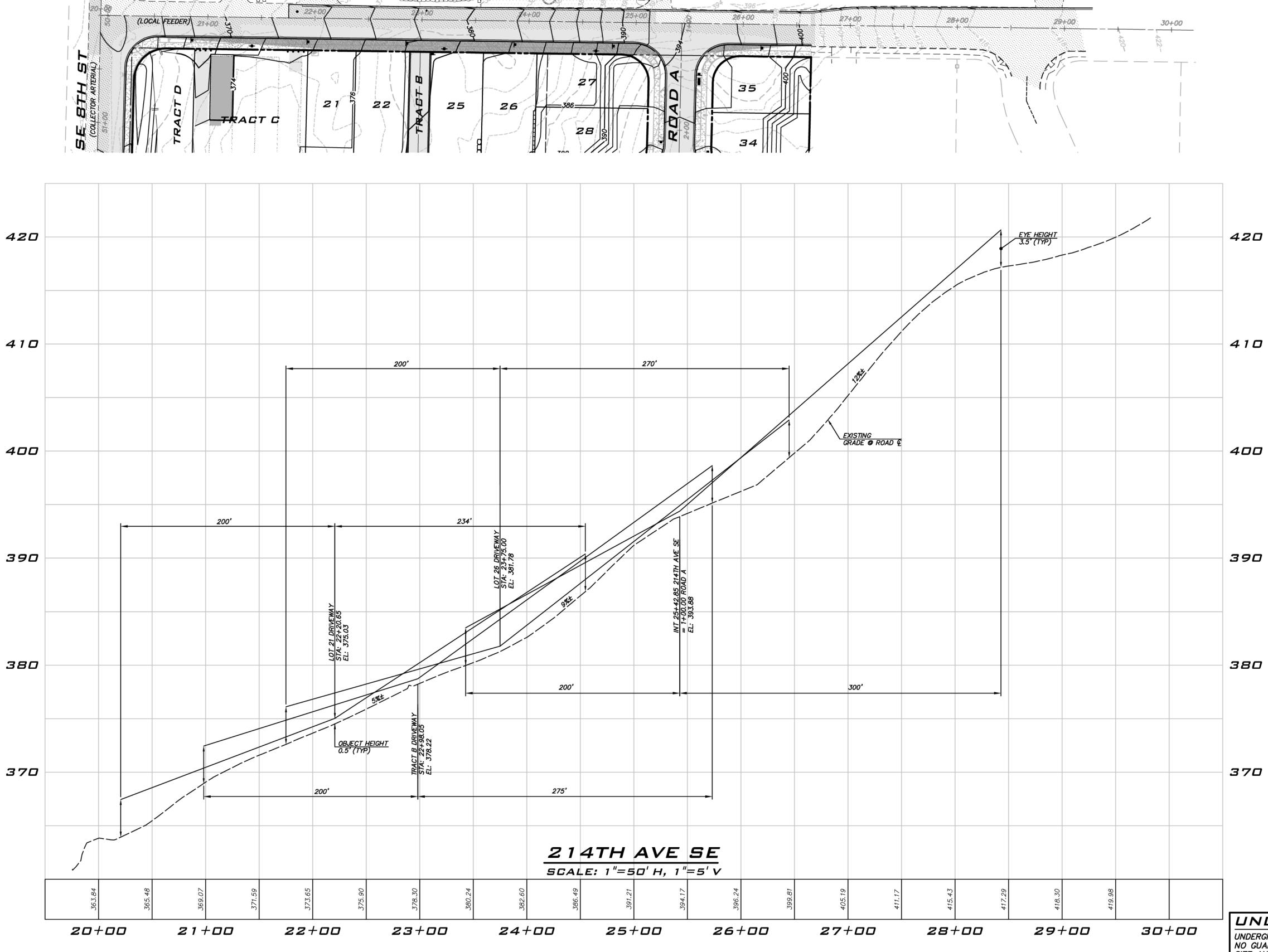
REVISIONS	REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS, VAULT PLANS MODIFIED TO MATCH STRUCTURAL	REVISED PER CITY COMMENTS			
ВУ	RAB	ACL	RAB			
NO DATE	5/10/19	7/26/19	8/5/19			
ON	1	8	ъ			

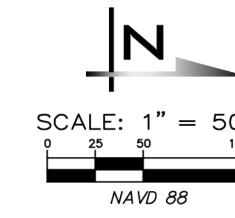
8/5/19

15-111

SHEET NAME: ESD-02

sнт <u>27</u> оғ <u>48</u>





NOTES

. POSTED SPEED = 25 MPH

2. SIGHT DISTANCE PARAMETERS PER 2000 CITY OF SAMMAMISH INTERIM PUBLIC WORKS STANDARDS (PWS)

SSD INFO OBJECT HEIGHT:

EYE HEIGHT: *3.5* ' 30 MPH DESIGN SPEED: 200 FEET STANDARD SSD:

<u>ADJUSTMENT FOR DOWNGRADE</u> (PER TABLE IV):

CITY OF SAMMAMISH APPROVAL BLOCK

or omissions.

REVIEWED FOR CODE COMPLIANCE
per 13.20 SMC, 14.01 SMC, and 16.15 SMC,
subject to field inspection and correction.

hstrasbourger08/09/2019 City of Sammamish Public Works Depar

ROW2019-03272

UNDERGROUND UTILITY NOTE

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PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER: BRETT K PUDISTS, PE

DESIGNER:

AARON C LANCE ISSUE DATE:

8/5/2019 B Y RAB ACL RAB

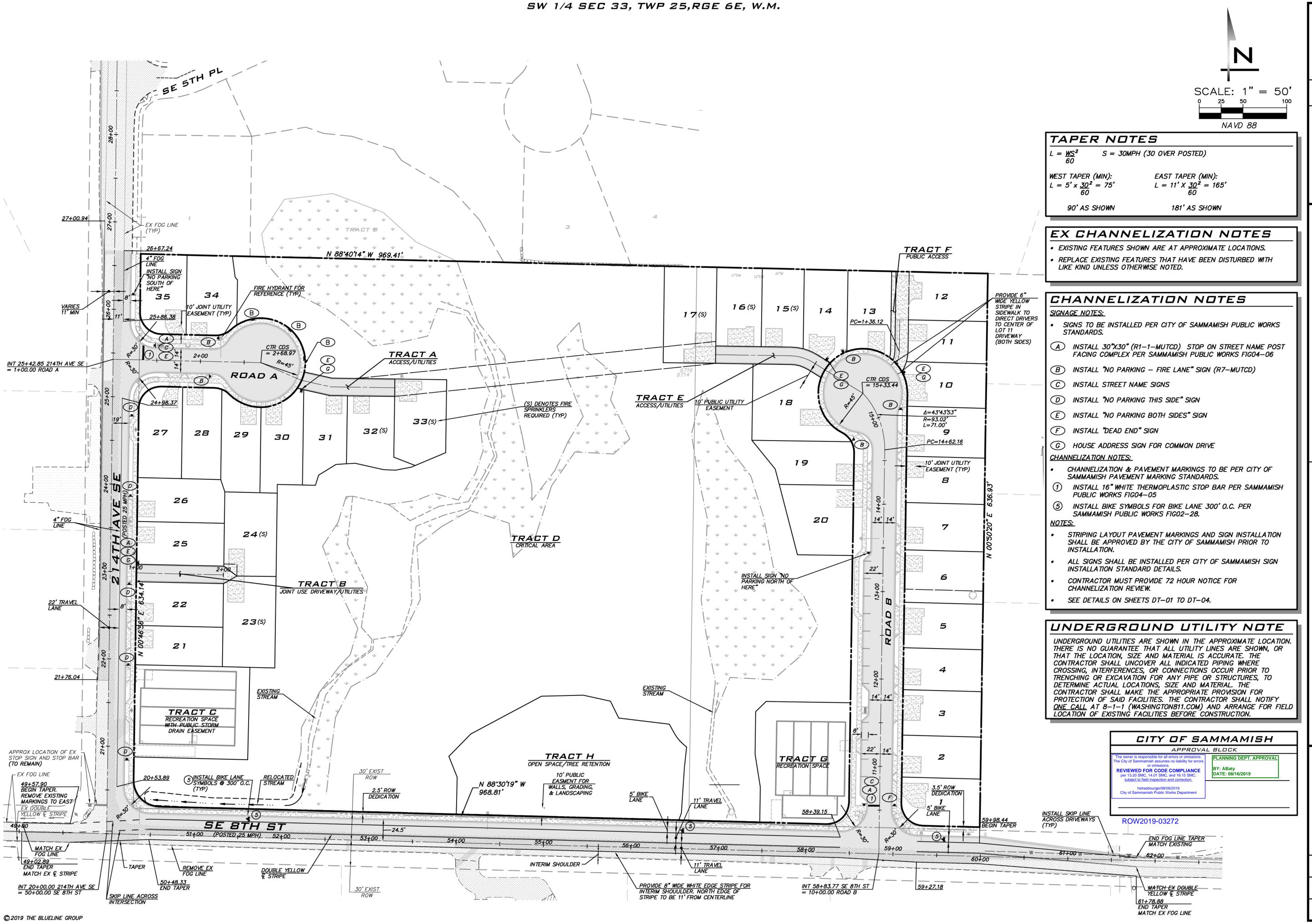
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8/5/19

15-111

SHEET NAME: SSD-01

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25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM

SCALE: AS NOTED

PROJECT MANAGER: BRETT K PUDISTS, PE

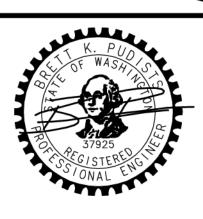
PROJECT ENGINEER: BRETT K PUDISTS, PE

DESIGNER:

AARON C LANCE ISSUE DATE: 8/5/2019

DATE BY REVISED PER CITY COMMENTS
7/26/19 ACL REVISED PER CITY COMMENTS, VAULT PLANS MODIFIED TO MATCH STRUCTURAL
8/5/19 RAB REVISED PER CITY COMMENTS

ARRIER SE BTH SUBDIVISION ROAD & STORM PLANS



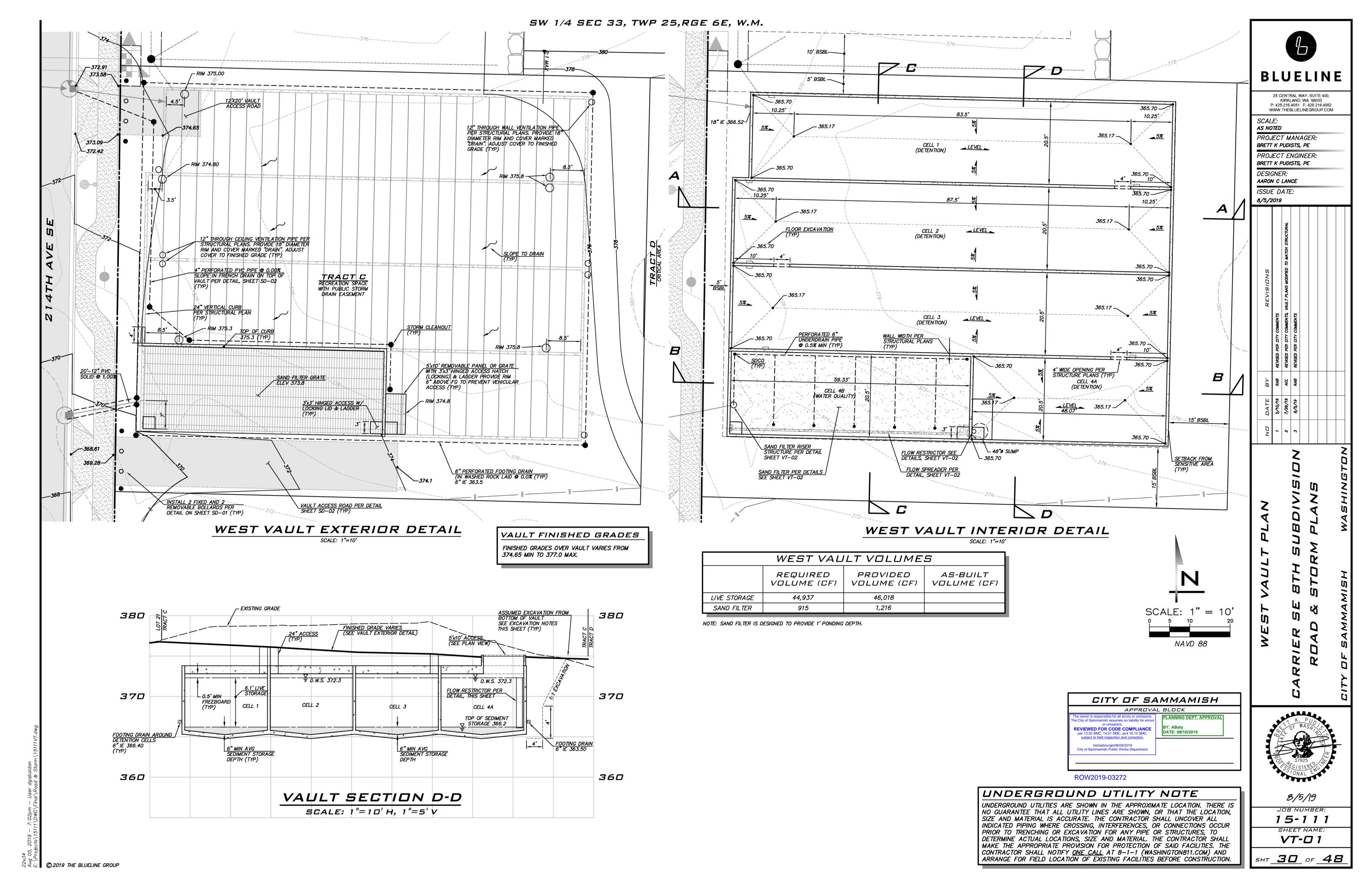
8/5/19

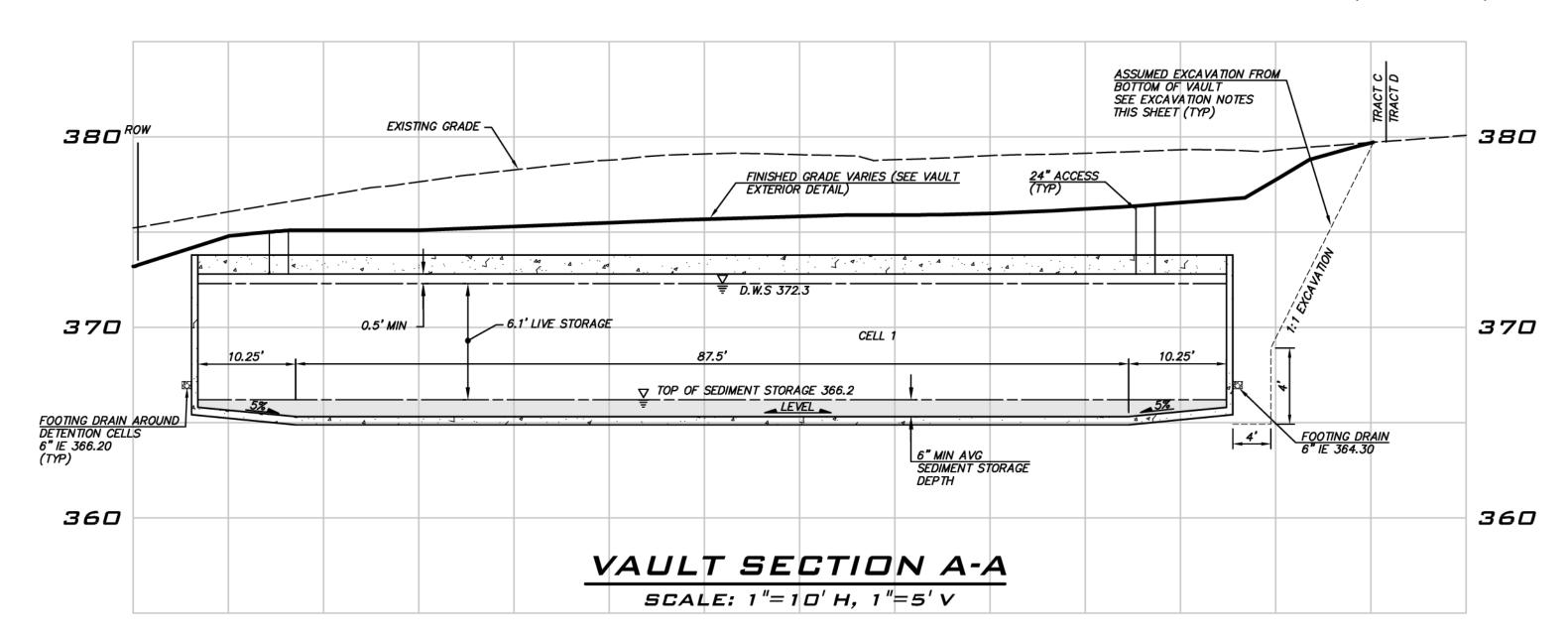
JOB NUMBER: 1 **5-1 1 1**

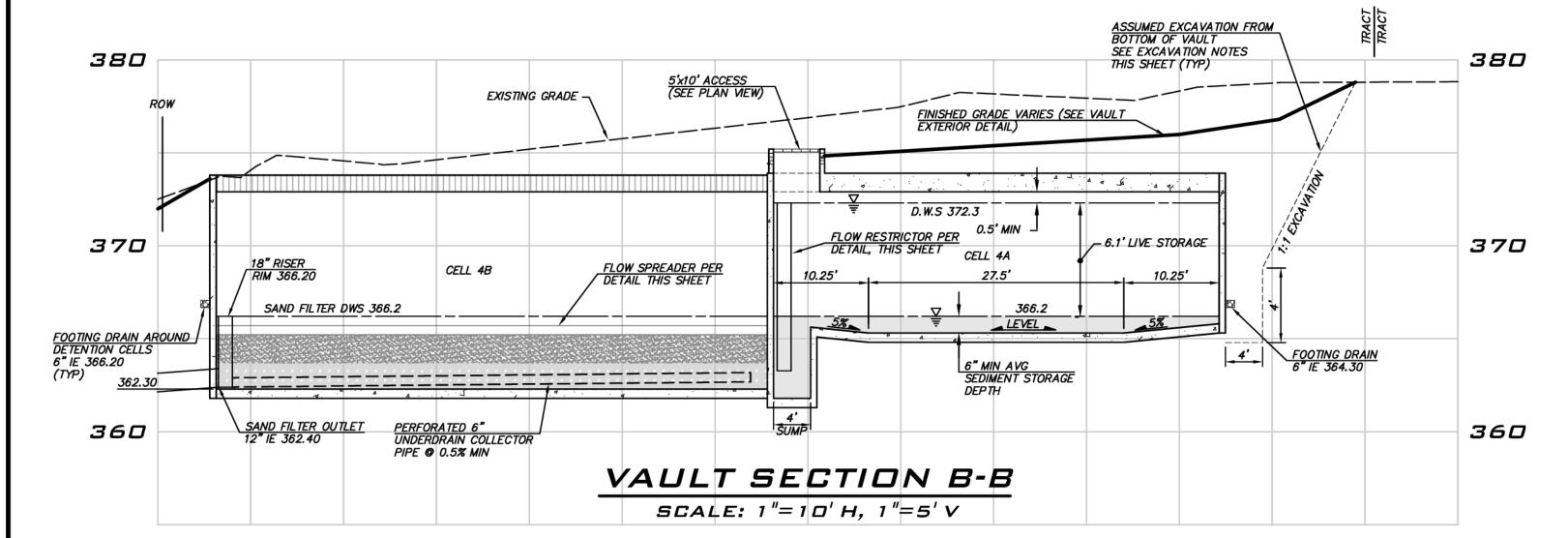
CH-01

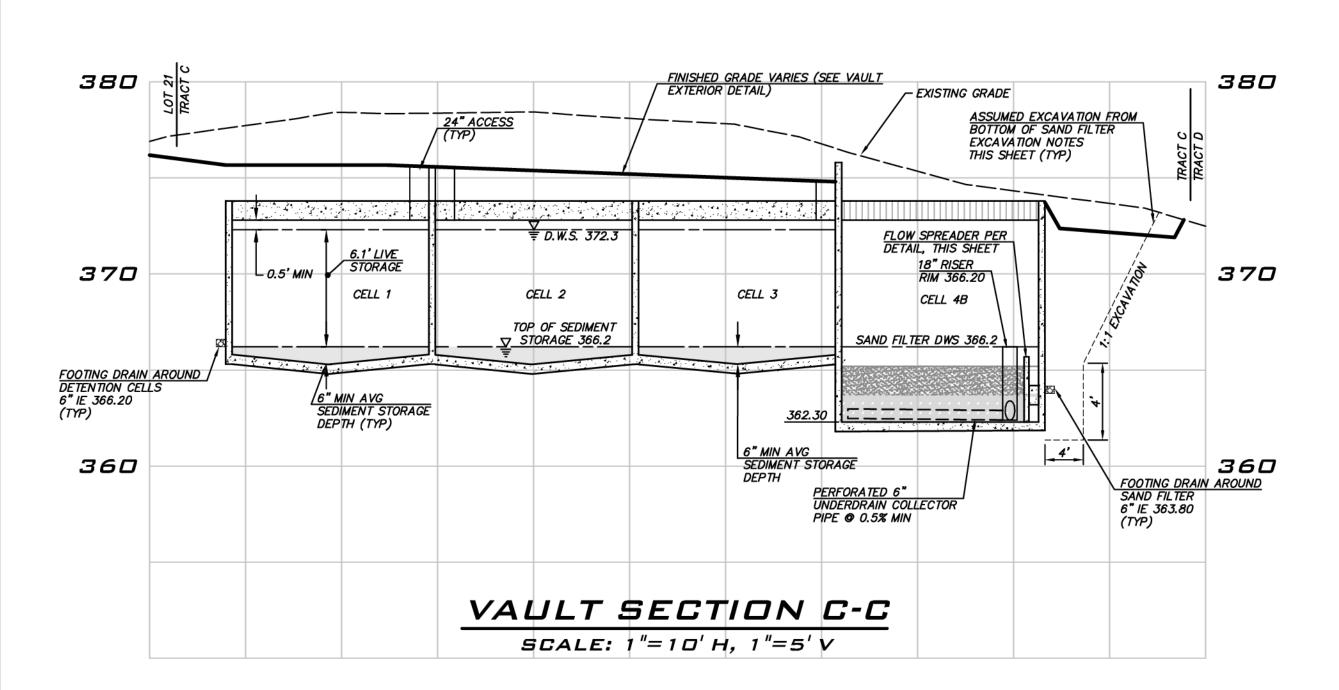
SHEET NAME:

нт <u>29</u> оғ <u>48</u>

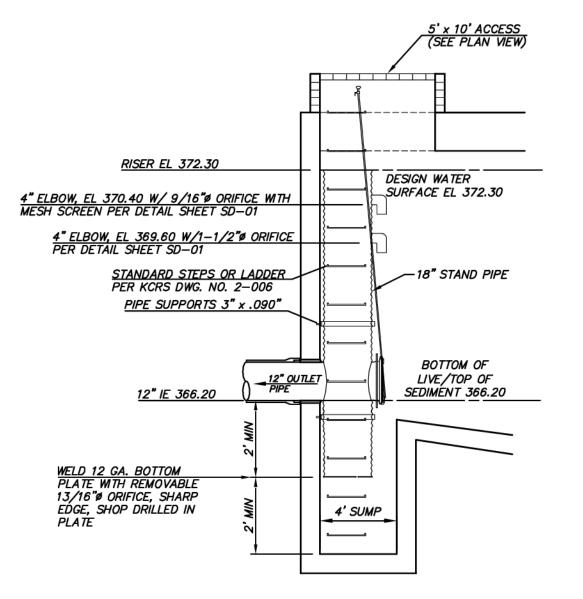




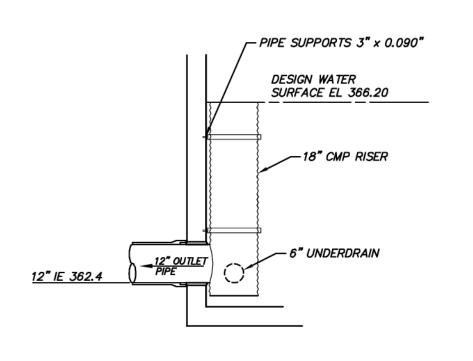




INSTALL A BRASS OR STAINLESS STEEL INFORMATION PLATE INSIDE VAULT. INFORMATION ON THE PLATE SHOULD INCLUDE THE FOLLOWING: PROJECT NAME: CARRIER PROJECT #: SDP 2018-06254 DEVELOPER: TOLL BROTHERS ENGINEER: THE BLUELINE GROUP CONTRACTOR: DATE CONSTRUCTED: MANUAL USED FOR DESIGN: 2009 KING COUNTY SURFACE WATER DESIGN MANUAL OUTFLOW PERFORMANCE CRITERIA - LEVEL III ORIFICE #1: 9/16" ø, ELEV = 371.20 ORIFICE #2: 1-1/2 ø, ELEV = 370.40 ORIFICE #3: 13/16" ø, ELEV = 364.20 TOP OF RISER ELEV = 372.30 INSPECT VAULT FOR MAINTENANCE TWICE/YEAR



CONTROL STRUCTURE (WEST VAULT) NOT TO SCALE

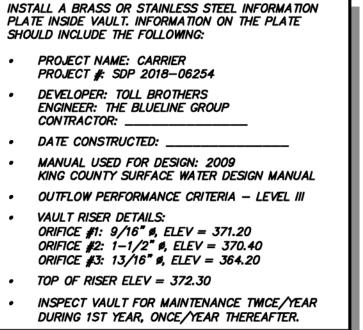


SAND FILTER RISER STRUCTURE (WEST VAULT)

NOT TO SCALE

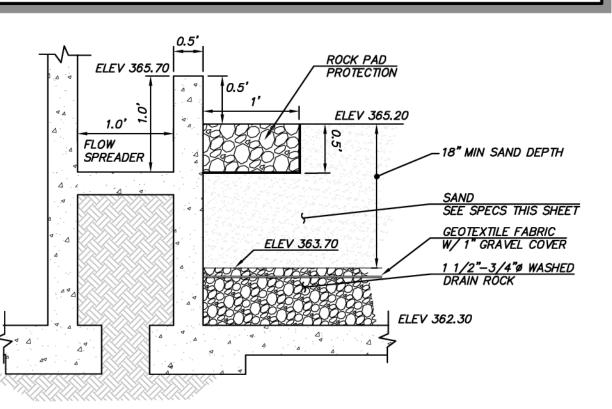
EXCAVATION LIMITS NOTE

LIMITS OF EXCAVATION CONSISTENT WITH THE ASSUMPTIONS NOTED ON THIS SHEET ARE SHOWN FOR REFERENCE ON THE TESC AND GRADING PLAN, SHEET TP-01. CONSULT WITH PROJECT GEOTECH TO CONFIRM SITE SPECIFIC EXCAVATION REQUIREMENTS DURING CONSTRUCTION.



VAULT NOTES

- DIMENSIONS DEPICTING OVERALL SIZE OF VAULT ARE FOR REFERENCE ONLY. SEE STRUCTURAL PLANS FOR TOTAL LENGTH, WIDTH, HEIGHT AND WALL THICKNESS DESIGN, AS WELL AS LOCATIONS FOR PENETRATIONS AND ACCESS POINTS.
- COVER OVER VAULT TO BE AS NOTED ON VAULT EXTERIOR DETAIL.
- VAULT TO BE DESIGNED TO ACCOMMODATE H20 VEHICULAR LOADING PER 2009 KING COUNTY SURFACE WATER DESIGN MANUAL AND VACTOR TRUCK LOADING.
- FOOTING DRAINS TO BE PROVIDED AS SHOWN.
- PIPE SIZES AND SLOPES: PER PLANS.
- ACCESS OPENINGS TO HAVE OSHA CONFINED SPACE WARNING.
- JOINTS AND PENETRATIONS IN VAULT AND LID TO BE WATER TIGHT. PROVIDE WATER STOPS IN
- ALL METAL PARTS CORROSION RESISTANT. NO-GALVANIZED PARTS. STAINLESS STEEL PARTS AND ALUMINUM ARE ACCEPTABLE, GALVANIZED PARTS TO HAVE ASPHALT TREATMENT T
- PIPE SUPPORTS AND RESTRICTOR/SEPARATOR/TEE SHALL BE OF SAME MATERIAL, AND BE ANCHORED AT 3' MAX. SPACING BY 5/8" DIA. STAINLESS STEEL EXPANSION BOLTS OR
- EMBEDDED 2" IN WALL. 0. THE RESTRICTOR/SEPARATOR SHALL BE FABRICATED FROM 0.060" ALUMINUM OR 0.64" ALUMINIZED STEEL, OR 0.064" GALVANIZED STEEL PIPE; IN ACCORDANCE WITH
- AASHTO M 36, M 196, M 197, AND M 274. GALVANIZED STEEL SHALL HAVE TREATMENT 1 OUTLET SHALL BE CONNECTED TO CULVERT OR SEWER PIPE WITH A STANDARD COUPLING BAND FOR CORRUGATED METAL PIPE, OR GROUTED INTO BELL FOR CONCRETE PIPE.
- 12. FRAME AND LADDER OR STEPS OFFSET SO THAT;
 - a. CLEANOUT GATE IS VISIBLE FROM TOP
 - b. CLIMB DOWN SPACE IS CLEAR OF RISER AND CLEANOUT GATE.
 - c. FRAME IS CLEAR OF CURB.
- MULTI-ORIFICE ELBOWS MAY BE LOCATED AS SHOWN OR ALL ON ONE SIDE OF RISER TO ASSURE 2' MIN LADDER CLEARANCE.



CONCRETE TROUGH FLOW SPREADER

NOTE

SEE SHEET SD-01 & SD-02 FOR ADDITIONAL DETAILS.

CITY OF SAMMAMISH

APPROVAL BLOCK or omissions.

REVIEWED FOR CODE COMPLIANCE subject to field inspection and correction

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

WWW.THEBLUELINEGROUP.COM SCALE: AS NOTED

PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER: BRETT K PUDISTS, PE

DESIGNER: AARON C LANCE ISSUE DATE: 8/5/2019

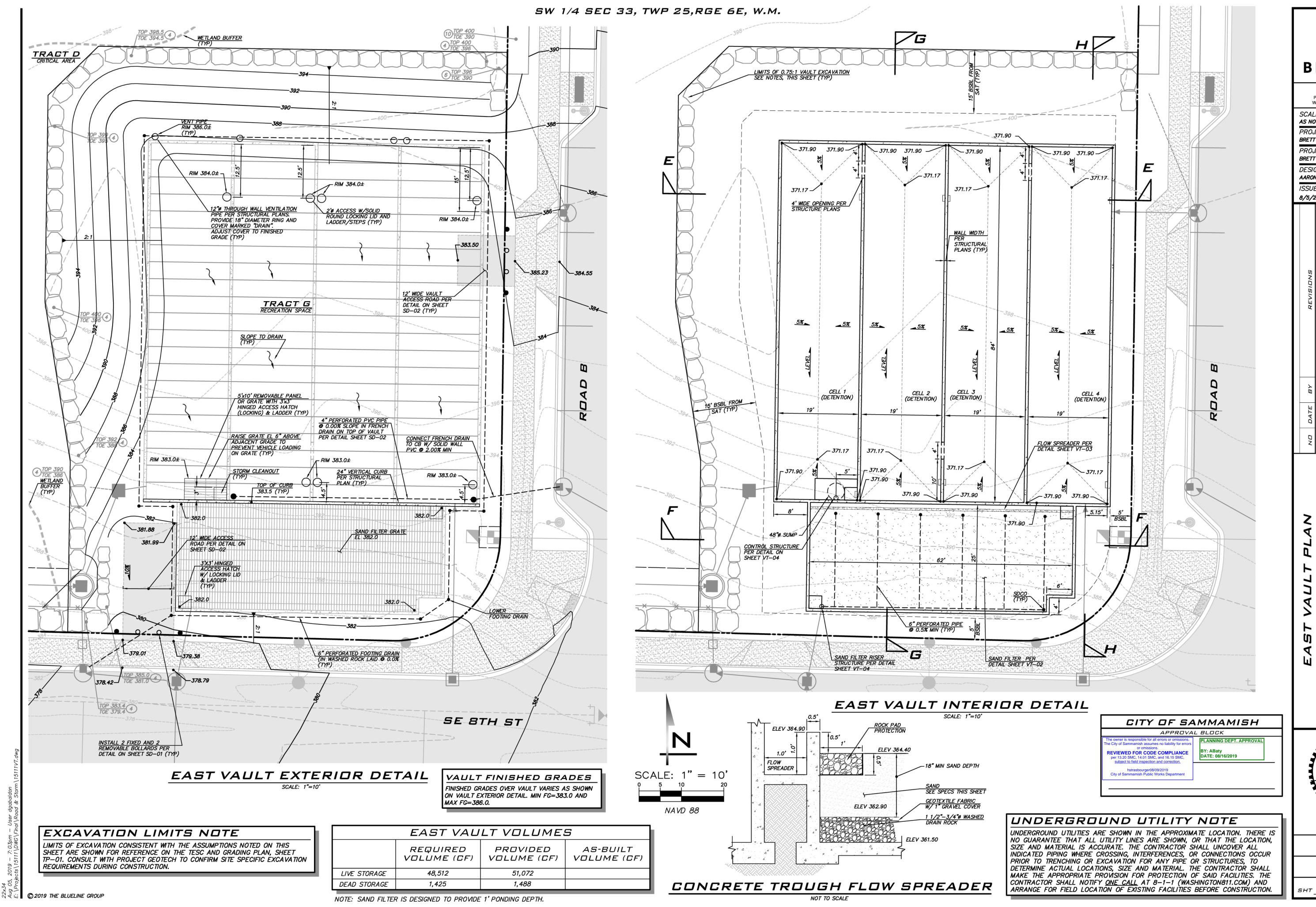
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8/5/19

15-111 SHEET NAME:

VT-02

sнт <u>**31</u> оғ <u>48</u></u>**



BLUELINE

25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED

PROJECT MANAGER:
BRETT K PUDISTS, PE

PROJECT ENGINEER:
BRETT K PUDISTS, PE

DESIGNER:
AARON C LANCE

ISSUE DATE:
8/5/2019

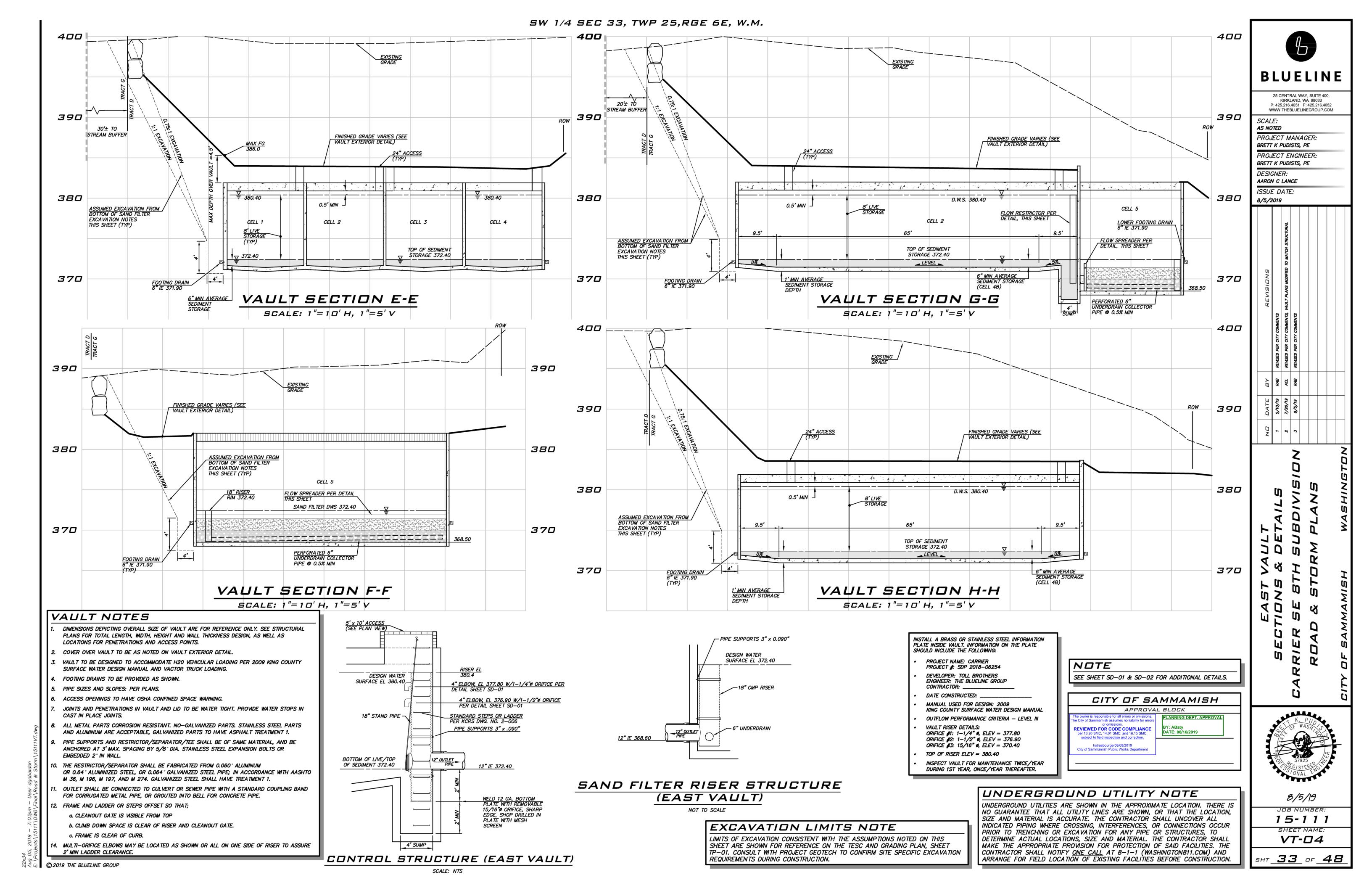
IER SE BTH SUBDIVISIO OAD & STORM PLANS

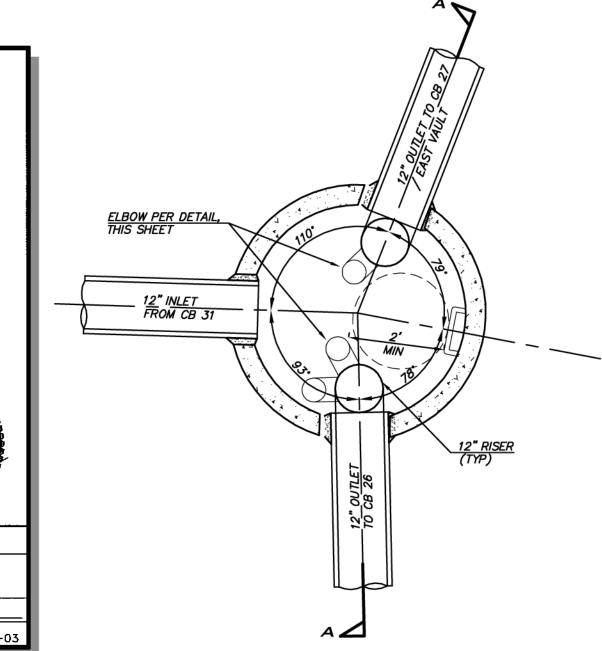
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8/5/19

15-111 SHEET NAME: VT-03

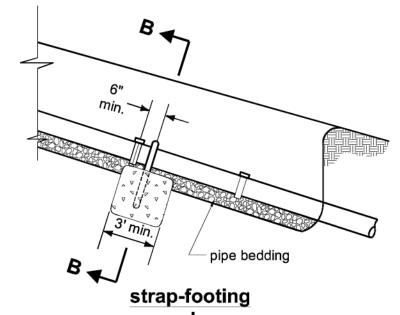
sнт <u>32</u> ог <u>48</u>

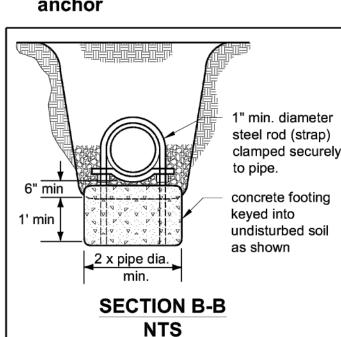




CB 32 - FLOW SPLITTER PLAN VIEW

SCALE: 1" = 2'

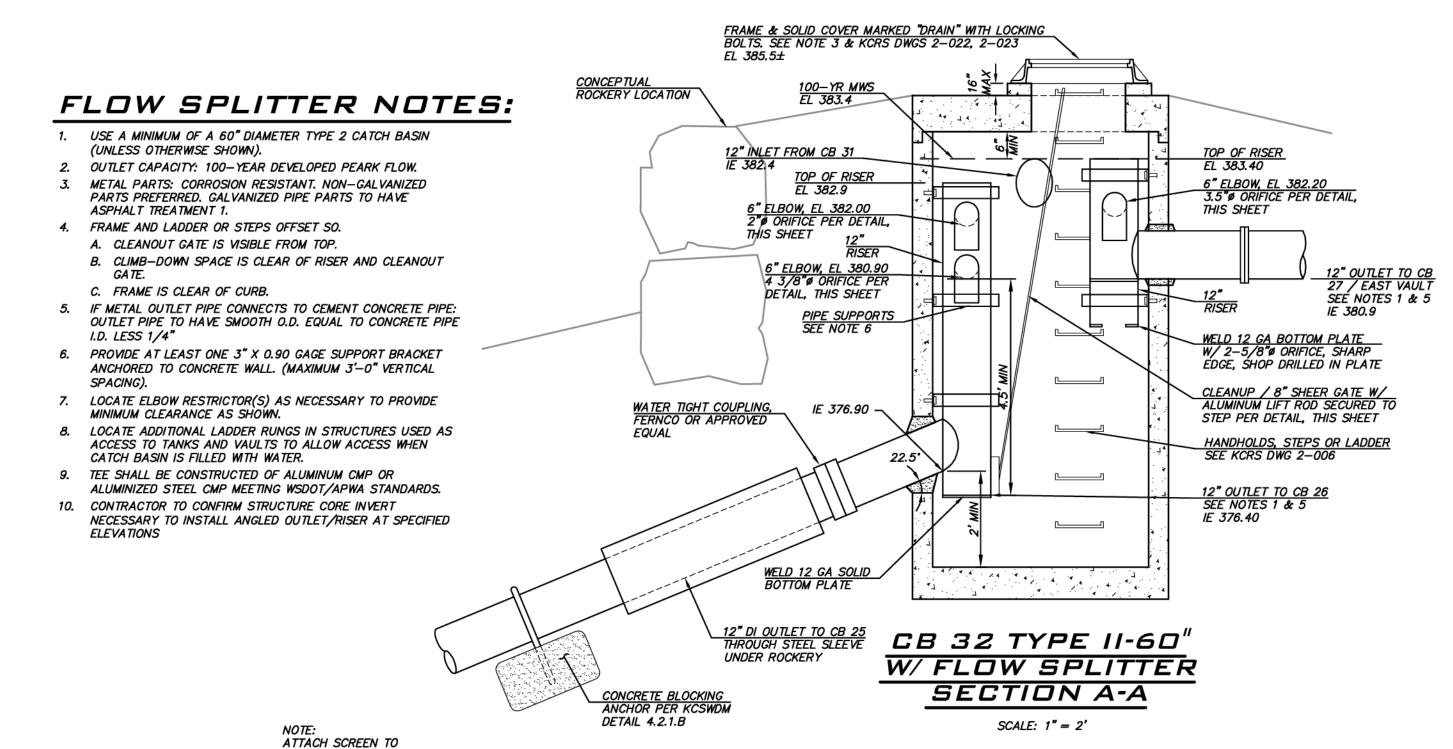


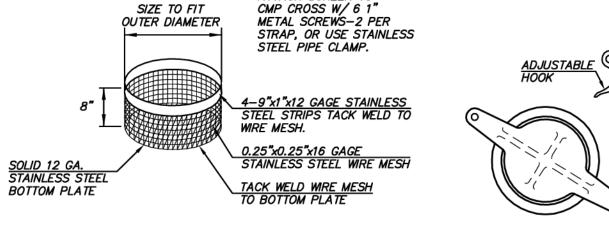


Note: For SWPE, pipe must be free to slide inside a 4' long section of pipe one size diameter larger.

KCSWDM DETAIL 4.2.1.B

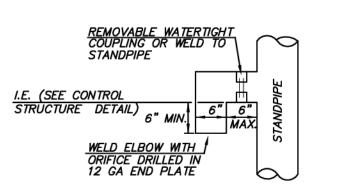
NOT TO SCALE





FLOW CONTOL SCREEN

NOT TO SCALE



ELBOW DETAIL

NOT TO SCALE

 SHEAR GATE SHALL BE: A. CAST IRON BODY AND GATE, OLYMPIC FDY, STD., OR EQUAL.

> B. ALUMINUM, DRAINAGE SPECIALTIES (SAVANNA, GA) STD. OR EQUAL. 2. GATE SHALL BE 8" DIAMETER UNLESS OTHERWISE SPECIFIED.

3. GATE SHALL BE JOINED TO TEE SECTION BY BOLTING (THROUGH FLANGE), WELDING, OR OTHER SECURE MEANS.

LIFT ROD: AS SPECIFIED BY
MANUFACTURER WITH HANDLE EXTENDED
TO WITHIN ONE FOOT OF COVER AND
ADJUSTABLE HOOK LOCK FASTENED TO
FRAME OR UPPER HANDHOLD.

SHEAR GATE DETAIL

NOT TO SCALE

CITY OF SAMMAMISH

APPROVAL BLOCK or omissions.

REVIEWED FOR CODE COMPLIANCE per 13.20 SMC, 14.01 SMC, and 16.15 SM subject to field inspection and correction. hstrasbourger08/09/2019 City of Sammamish Public Works Depa

ROW2019-03272

UNDERGROUND UTILITY NOTE UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION,

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

SCALE: AS NOTED PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER: BRETT K PUDISTS, PE DESIGNER:

AARON C LANCE ISSUE DATE: 8/5/2019

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8/5/19

15-111 SHEET NAME:

34 of 48

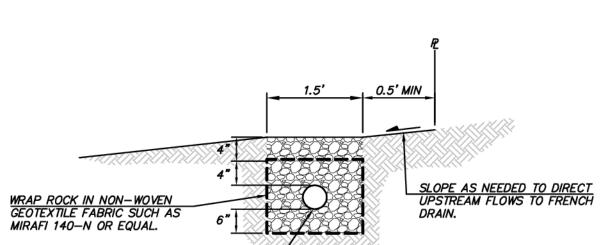
SD-01

LID BMP NOTE

THE LOW IMPACT DEVELOPMENT BEST MANAGEMENT PRACTICES (LID BMPS) NOTED IN THE TABLE ABOVE ARE SUBJECT TO CHANGE PRIOR TO RECORDING OF THE FINAL PLAT. ADJUSTMENTS MAY BE MADE AT THE CLIENT'S DISCRETION WHILE SATISFYING THE MINIMUM REQUIRED BMP AREAS FOR THE OVERALL PLAT. THE FINAL BMP DESIGNATIONS WILL BE INCLUDED ON THE FACE OF THE FINAL PLAT. AS THE PROJECT WILL SATISFY THE LID REQUIREMENT ON A PLAT WIDE BASIS, THE REQUIREMENTS SHALL BE CONSIDERED SATISIFIED FOR EACH INDIVIDUAL LOT AT TIME OF BUILDING PERMIT AND ADDITIONAL BMP IMPLEMENTATION WILL NOT BE REQUIRED.

DISPERSION NOTES

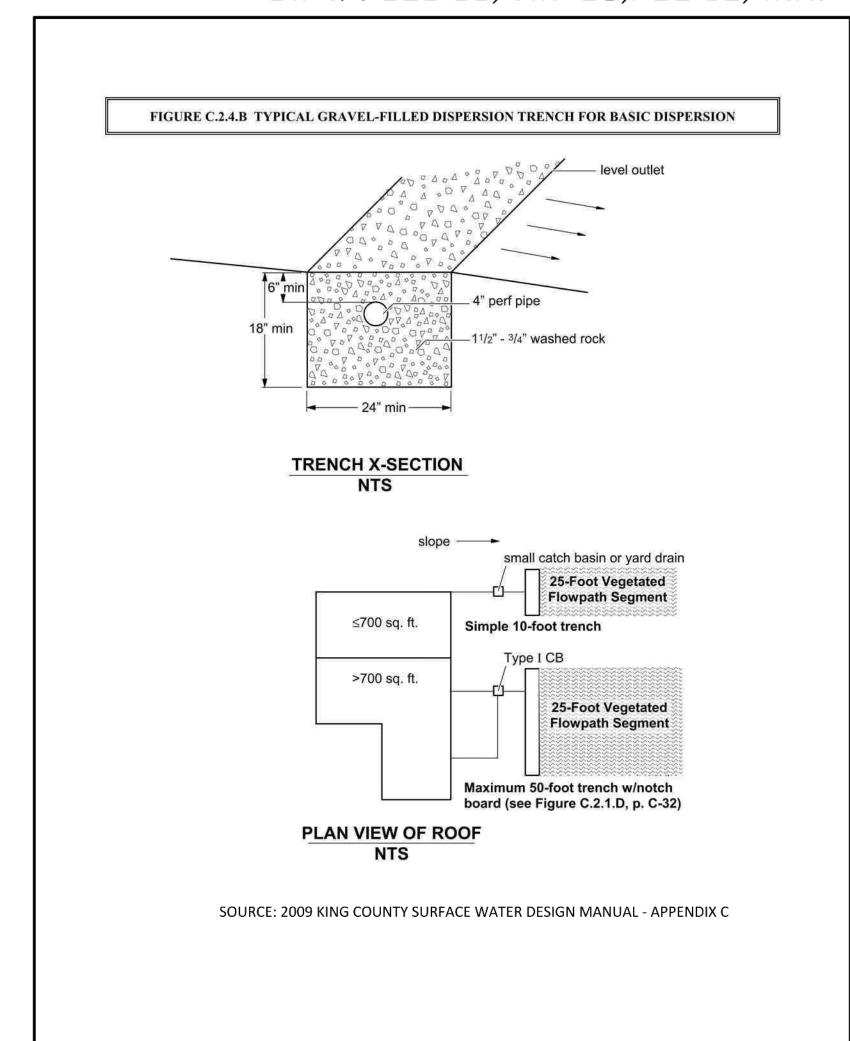
- SPLASH BLOCKS TO BE INSTALLED PER FIGURE C.2.4.A.
- PADS OF CRUSHED ROCK, 2 FT WIDE (PERPENDICULAR TO FLOW) BY 3 FT LONG BY 6 IN DEEP MAY BE USED AS AN ALTERNATIVE FOR SPLASH BLOCKS.
- SPLASH BLOCKS AND ROCK PADS REQUIRE A VEGETATED FLOW PATH SEGMENT OF AT LEAST 50 FT IN LENGTH.
- DISPERSION TRENCHES DESIGNATED AS 10 LF TO BE INSTALLED PER FIGURE
- DISPERSION TRENCHES WITH LENGTHS IN EXCESS OF 10 LF TO BE INSTALLED PER FIGURE C.2.1.D.
- DISPERSION TRENCHES REQUIRE A VEGETATED FLOW PATH SEGMENT OF AT LEAST 25 FT IN LENGTH.
- TRENCHES SHALL BE CONSTRUCTED SO AS TO PREVENT POINT DISCHARGE AND/OR EROSION.
- TRENCH AND GRADE BOARD (IF REQUIRED) MUST BE LEVEL.
- INSTALL SOLID BOARDS ON END OF TRENCHES, AS NECESSARY, TO AVOID CONCENTRATED DISCHARGE FROM ENDS OF TRENCHES AND DIRECT FLOWS OVER NOTCH BOARD.
- ALIGN TRENCHES TO FOLLOW CONTOURS OF SITE AND PROVIDE POSITIVE DRAINAGE ALONG DESIGNATED FLOW PATH.
- REFER TO LID BMP TABLE, THIS SHEET, AND RS SHEETS FOR FACILITY QUANTITIES, LENGTHS, DIMENSIONS, DESIGN AREAS, LOCATIONS AND ELEVATIONS.

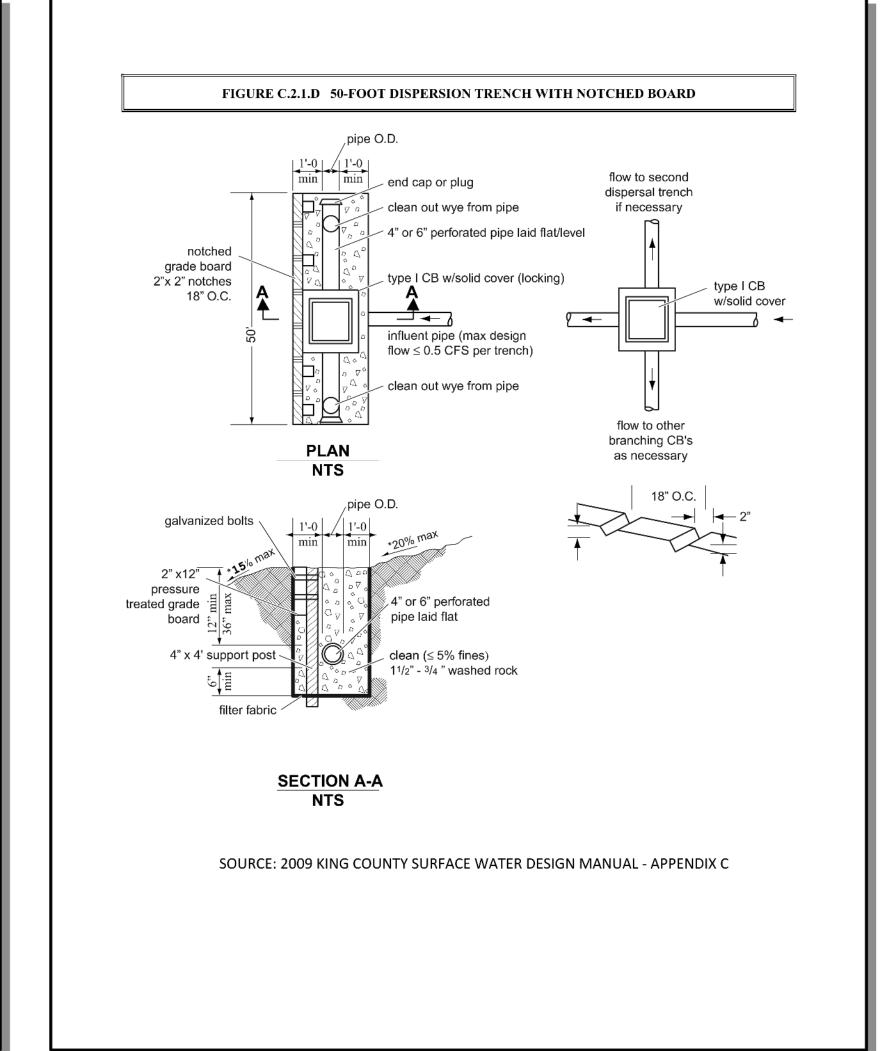


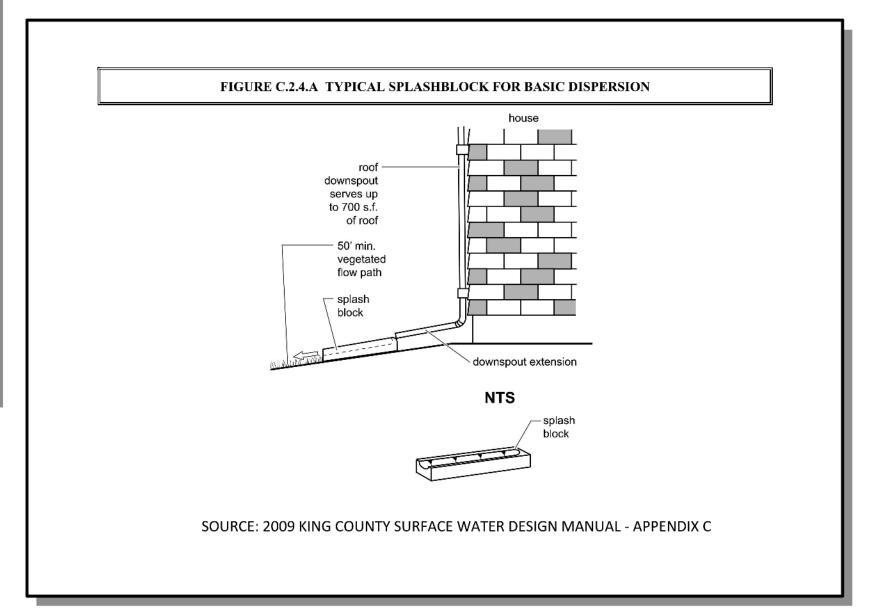
6" RIGID PVC PERFORATED PIPE SURROUNDEL BY 3/4" TO 1-1/2" WASHED DRAIN ROCK AL SIDE'S. PIPE SLOPE TO MATCH LONGITUDINAL SLOPE OF ADJACENT SIDEWALK. CONNECT

FRENCH DRAIN DETAIL - YARDS

NOT TO SCALE







SAND FILTER

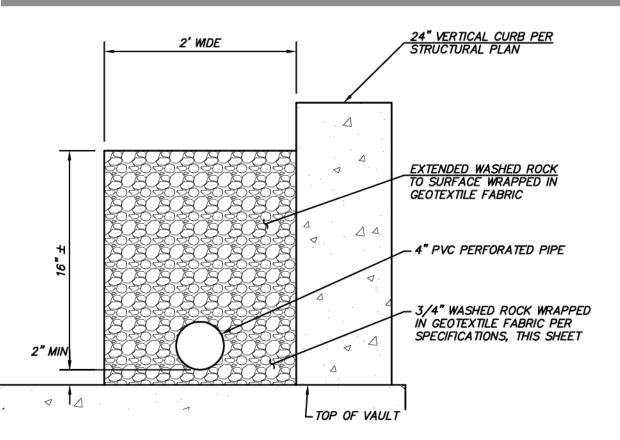
CONSTRUCTION NOTES

SAND FILTER MEDIA SHALL BE MEDIUM SAND WITH GRADATION TO MEET THE SPECIFICATIONS LISTED BELOW. CONTRACTOR SHALL OBTAIN A GRAIN SIZE ANALYSIS FROM THE SUPPLIER TO VERIFY THAT THE NO. 100 AND 200 SIEVE REQUIREMENTS ARE MET.

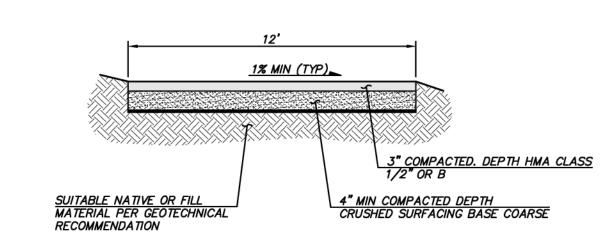
SAND MEDIA	SPECIFICATIONS
U.S. SIEVE SIZE	PERCENT PASSING
U.S. NO. 4	95 TO 100 PERCENT
U.S. NO. 8	70 TO 100 PERCENT
U.S. NO. 16	40 TO 90 PERCENT
U.S. NO. 30	25 TO 75 PERCENT
U.S. NO. 50	2 TO 25 PERCENT
U.S. NO. 100	LESS THAN 4 PERCENT
U.S. NO. 200	LESS THAN 2 PERCENT

SAND FILTER MEDIA SHALL NOT BE PLACED UNTIL CONSTRUCTION SITE IS STABILIZED. CAREFULLY PLACE SAND NEAR CLEANOUT SO THAT NO VOIDS ARE FORMED. DO NOT OVER-COMPACT THE SAND MEDIA. AFTER THE SAND IS PLACED, FLOOD THE SAND WITH 10-15 GALLONS OF WATER PER CUBIC FOOT OF SAND.

PROVIDE TO PW INSPECTOR DISTRIBUTOR/MANUFACTURER'S SPEC SHEET FOR SAND. SAND SHALL MEET REQUIREMENTS FOR NO 100 AND NO 200 SIEVE WITH NO EXCEPTIONS.



FRENCH DRAIN DETAIL - VAULT



VAULT ACCESS ROAD NOT TO SCALE

> CITY OF SAMMAMISH APPROVAL BLOCK REVIEWED FOR CODE COMPLIANCE subject to field inspection and correction

UNDERGROUND UTILITY NOTE

PPROVED WITH

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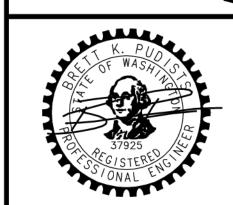
25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

WWW.THEBLUELINEGROUP.COM AS NOTED

PROJECT MANAGER: BRETT K PUDISTS, PE PROJECT ENGINEER:

BRETT K PUDISTS, PE DESIGNER: AARON C LANCE

ISSUE DATE: 8/5/2019

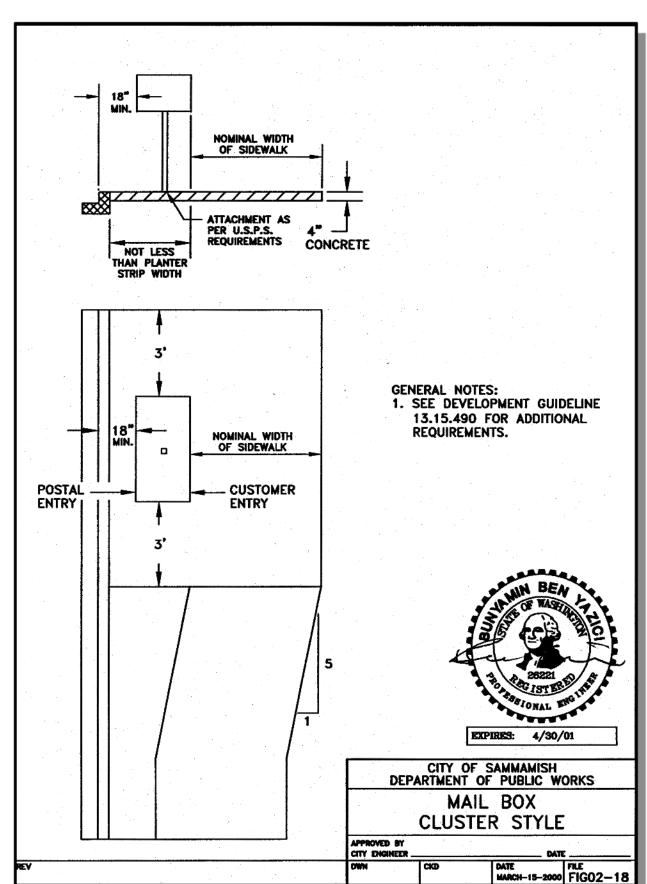


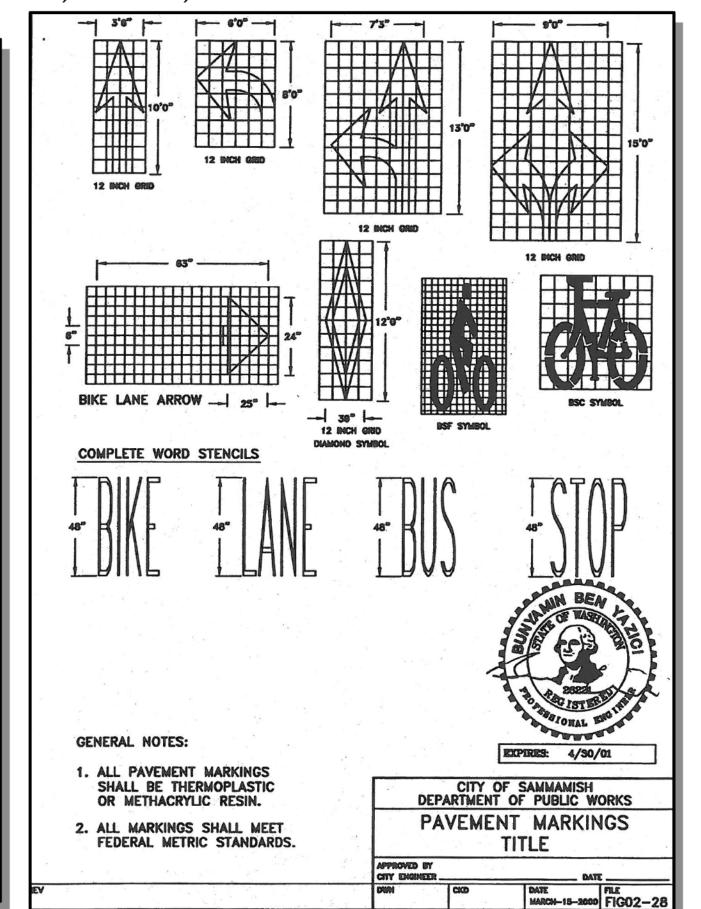
8/5/19

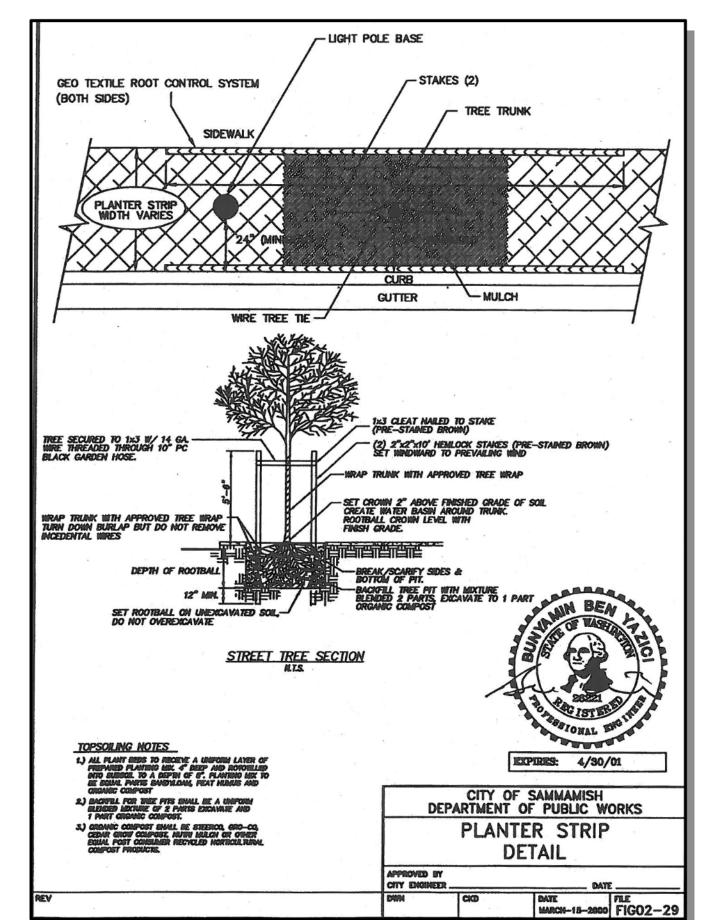
15-111

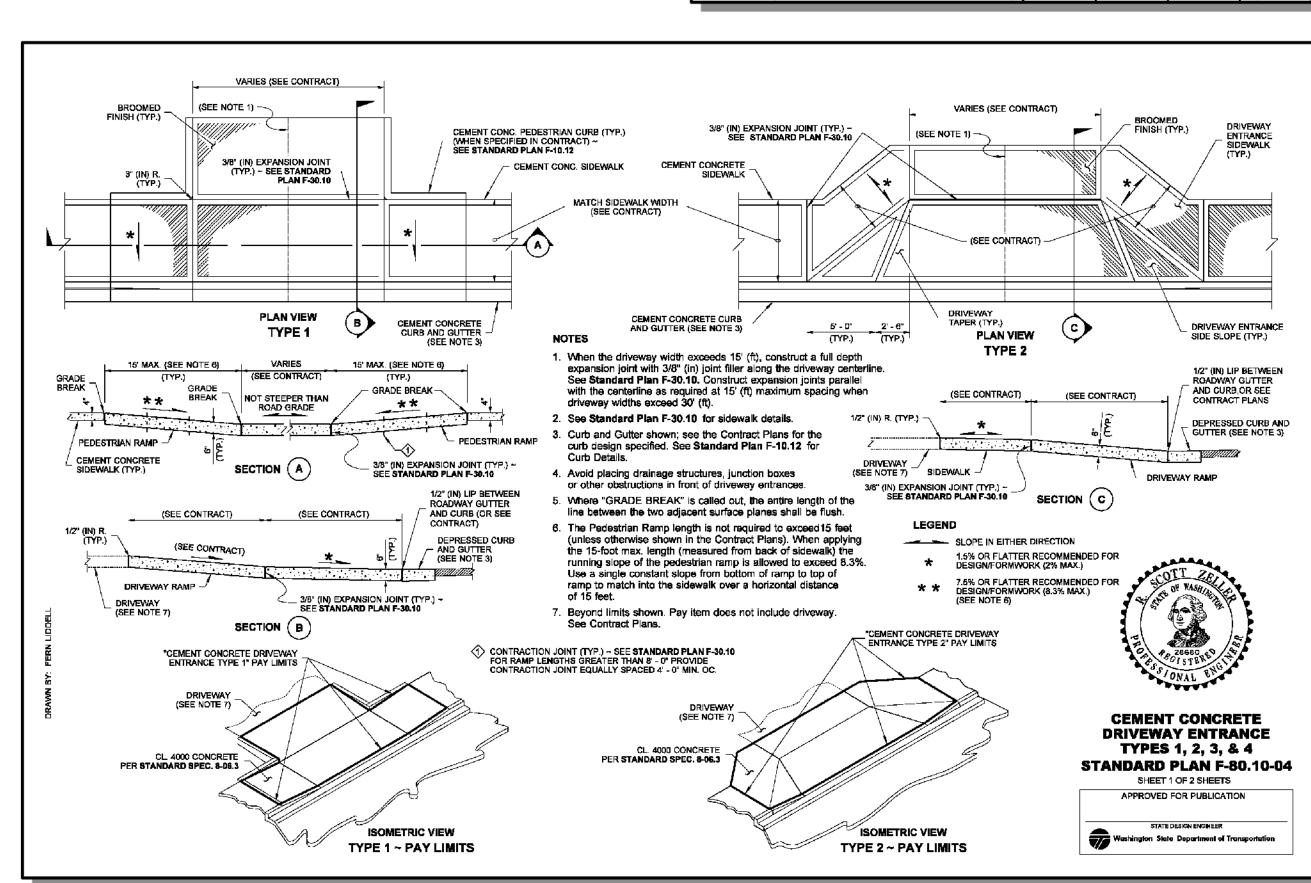
SHEET NAME: SD-02

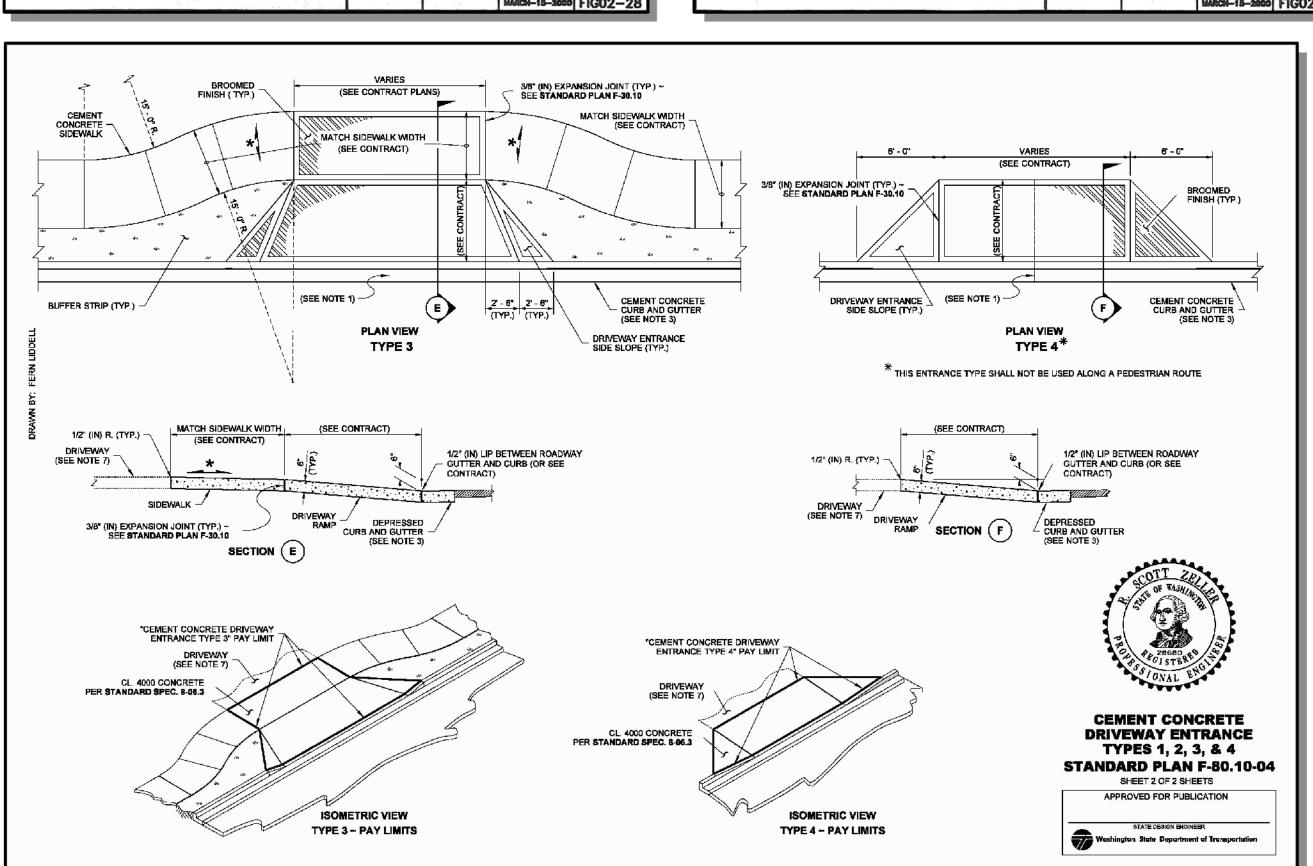
35 of 48

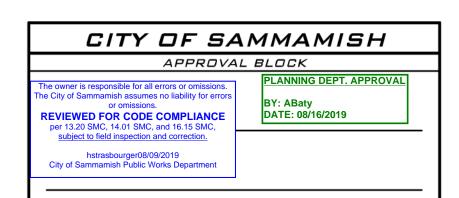












25 CENTRAL WAY, SUITE 400,
KIRKLAND, WA 98033
P: 425.216.4051 F: 425.216.4052
WWW.THEBLUELINEGROUP.COM

SCALE:
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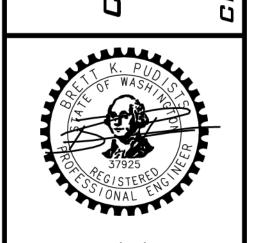
PROJECT MANAGER:
BRETT K PUDISTS, PE

PROJECT ENGINEER:
BRETT K PUDISTS, PE

DESIGNER:
AARON C LANCE

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REVISIONS	REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS, VAULT PLANS MODIFIED TO MATCH STRUCTURAL	REVISED PER CITY COMMENTS						
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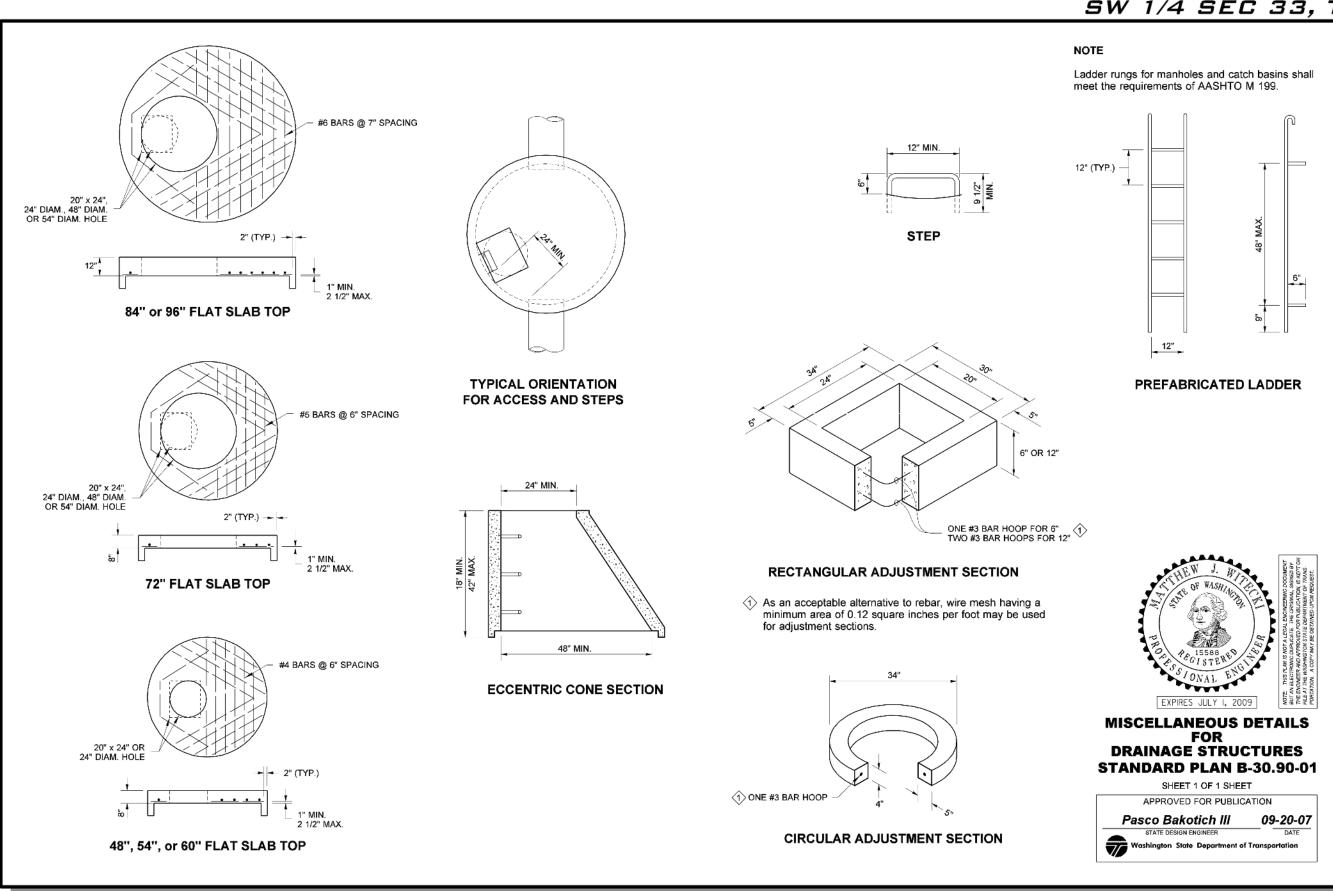
:ARRIER SE BTH SUBDIVISION ROAD & STORM PLANS

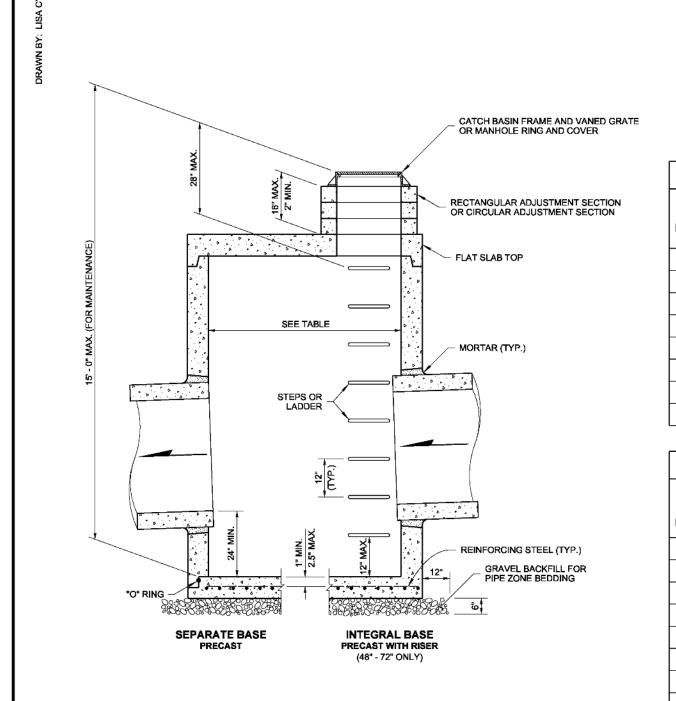


8/5/19 JOB NUMBER:

15-111 SHEET NAME: DT-01

sнт <u>36</u> of <u>48</u>





a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with **Standard** Specification 9-04.3. CATCH BASIN DIMENSIONS MIN. BASE MAXIMUM MINIMUM DISTANCE MIN. WALL BASIN BETWEEN THICKNESS THICKNESS SIZE DIAMETER KNOCKOUTS 48" 4" 36" 8" 6" 4.5" 42" 8" 8" 5" 48" 6" 8" 12" 12" 84" 12" 72" 8" 8" 12" 84" 12" 10" 96" 12" 120" 12" 12" 12" 12"

CATCH	PIPE MATER	IAL WITH N	AXIMUM IN	SIDE DIAM	ETER
BASIN DIAMETER	CONCRETE	SOLID WALL PVC ²	PROFILE WALL PVC 3		
48"	24"	30"	24"	30"	30"
54"	30"	36"	30"	36"	36"
60"	36"	42"	36"	42"	42"
72"	42"	54"	42"	48"	48"
84"	54"	60"	54"	48"	48"
96"	60"	72"	60"	48"	48"
120"	66"	84"	60"	48"	48"
144"	78"	96"	60"	48"	48"

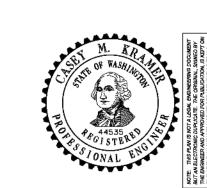
(Standard Specification 9-05.12(2))

1. No steps are required when height is 4' or less.

The frame may be cast into the adjustment section.

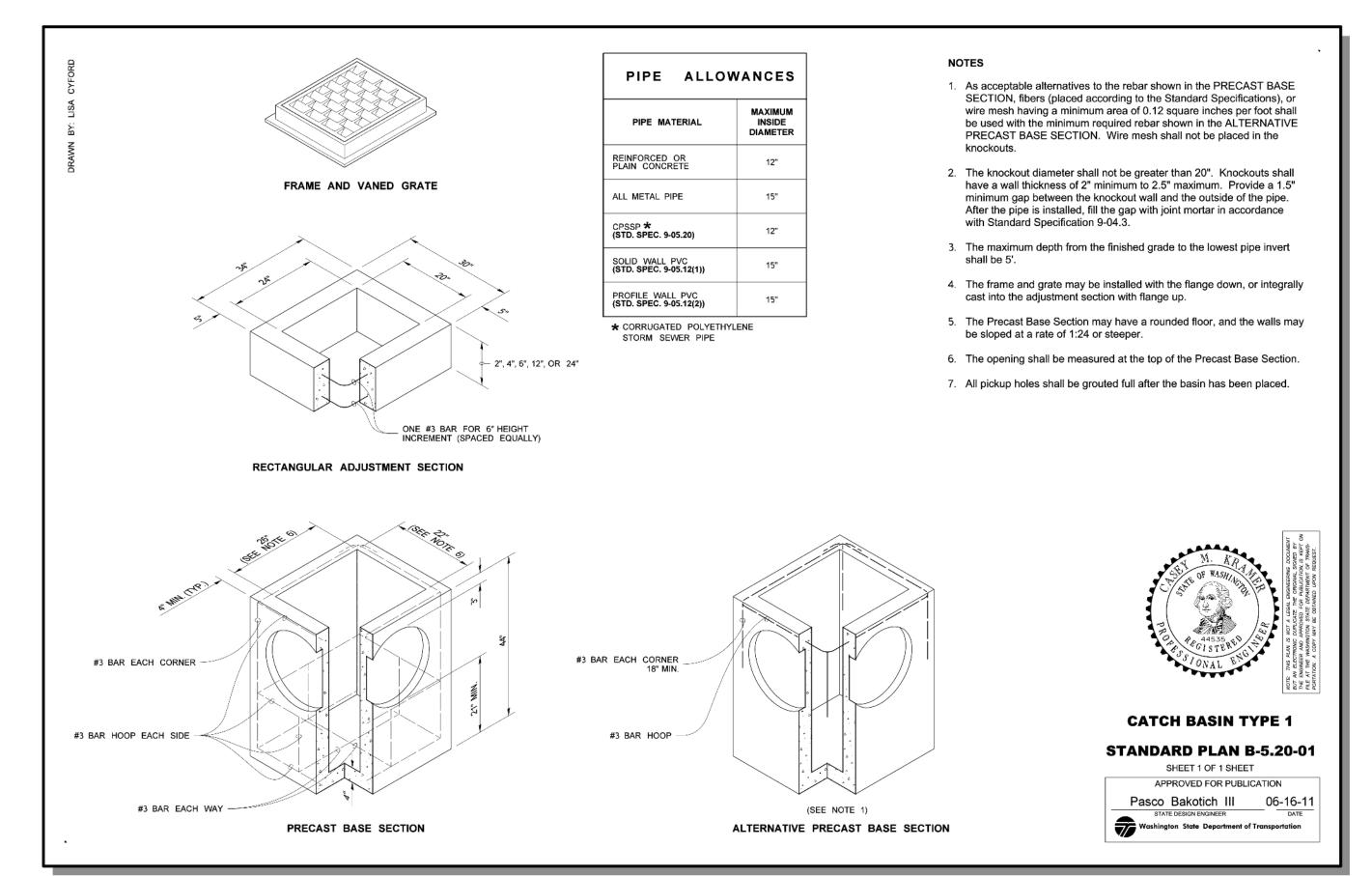
The bottom of the precast catch basin may be sloped to facilitate cleaning. 3. The rectangular frame and grate may be installed with the flange up or down.

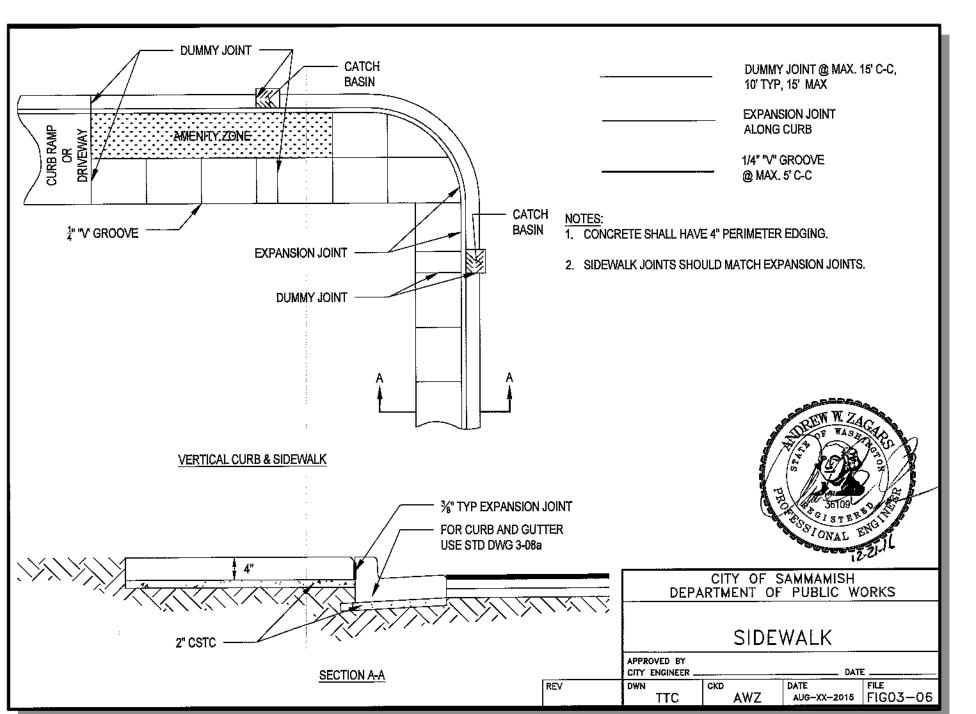
4. Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide



CATCH BASIN TYPE 2 STANDARD PLAN B-10.20-01

SHEET 1 OF 1 SHEET APPROVED FOR PUBLICATION Pasco Bakotich III 02-07-12





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ANNING DEPT. APPROVAL DATE: 08/16/2019

ROW2019-03272

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

WWW.THEBLUELINEGROUP.COM SCALE:

AS NOTED PROJECT MANAGER: BRETT K PUDISTS, PE

> PROJECT ENGINEER: BRETT K PUDISTS, PE

DESIGNER: AARON C LANCE ISSUE DATE:

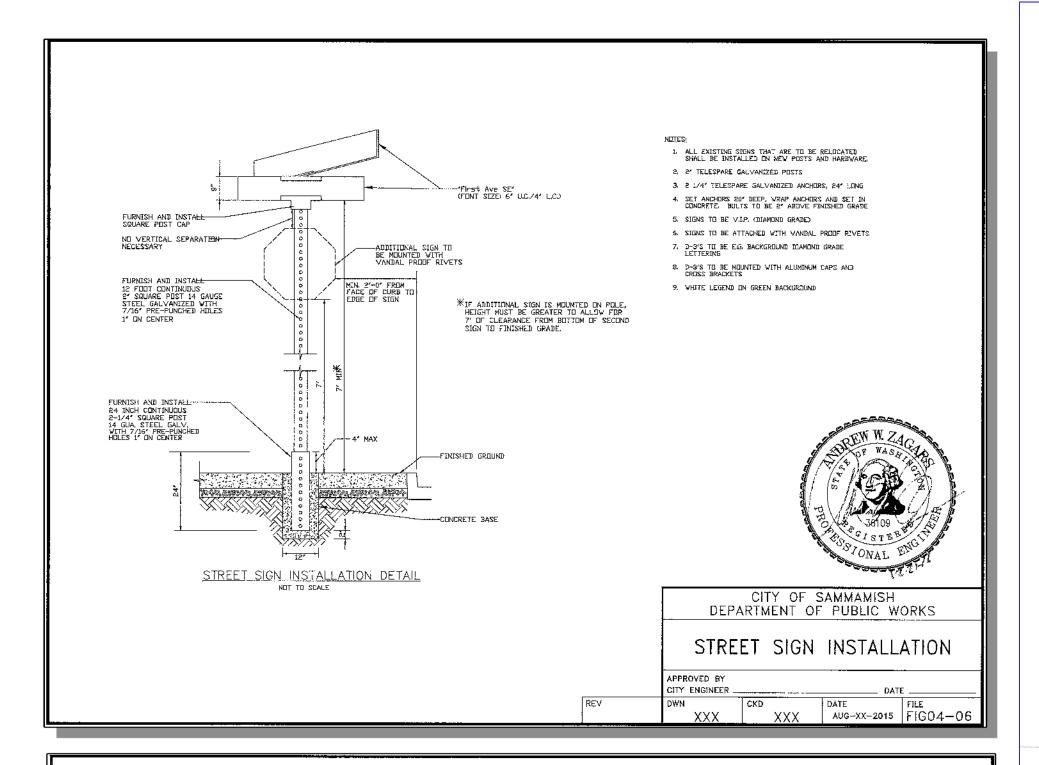
8/5/2	2019					
REVISIONS	REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS, VAULT PLANS MODIFIED TO MATCH STRUCTURAL	REVISED PER CITY COMMENTS			
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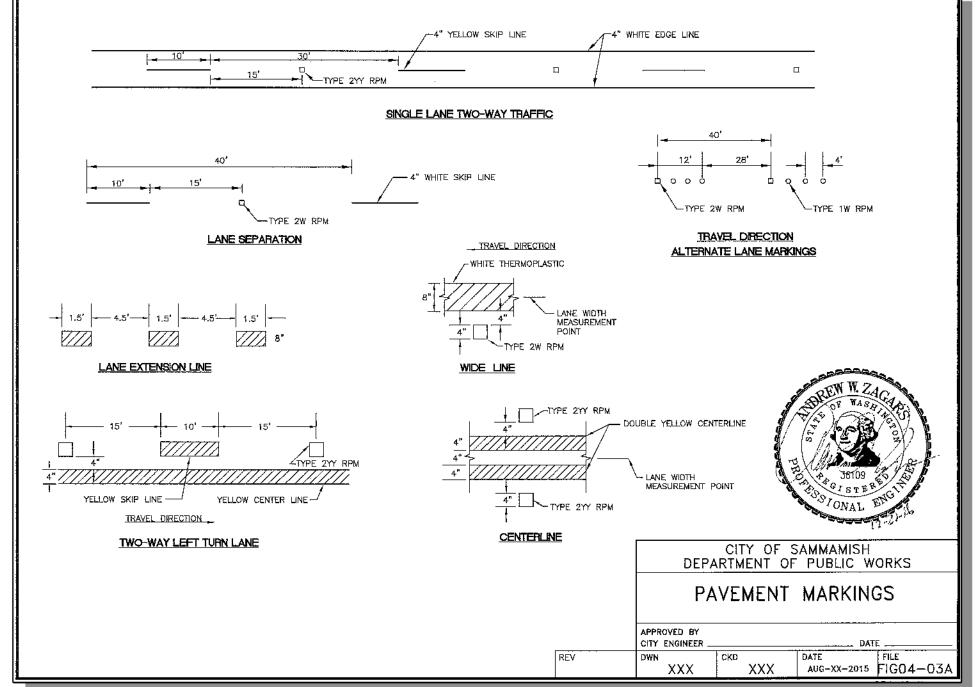
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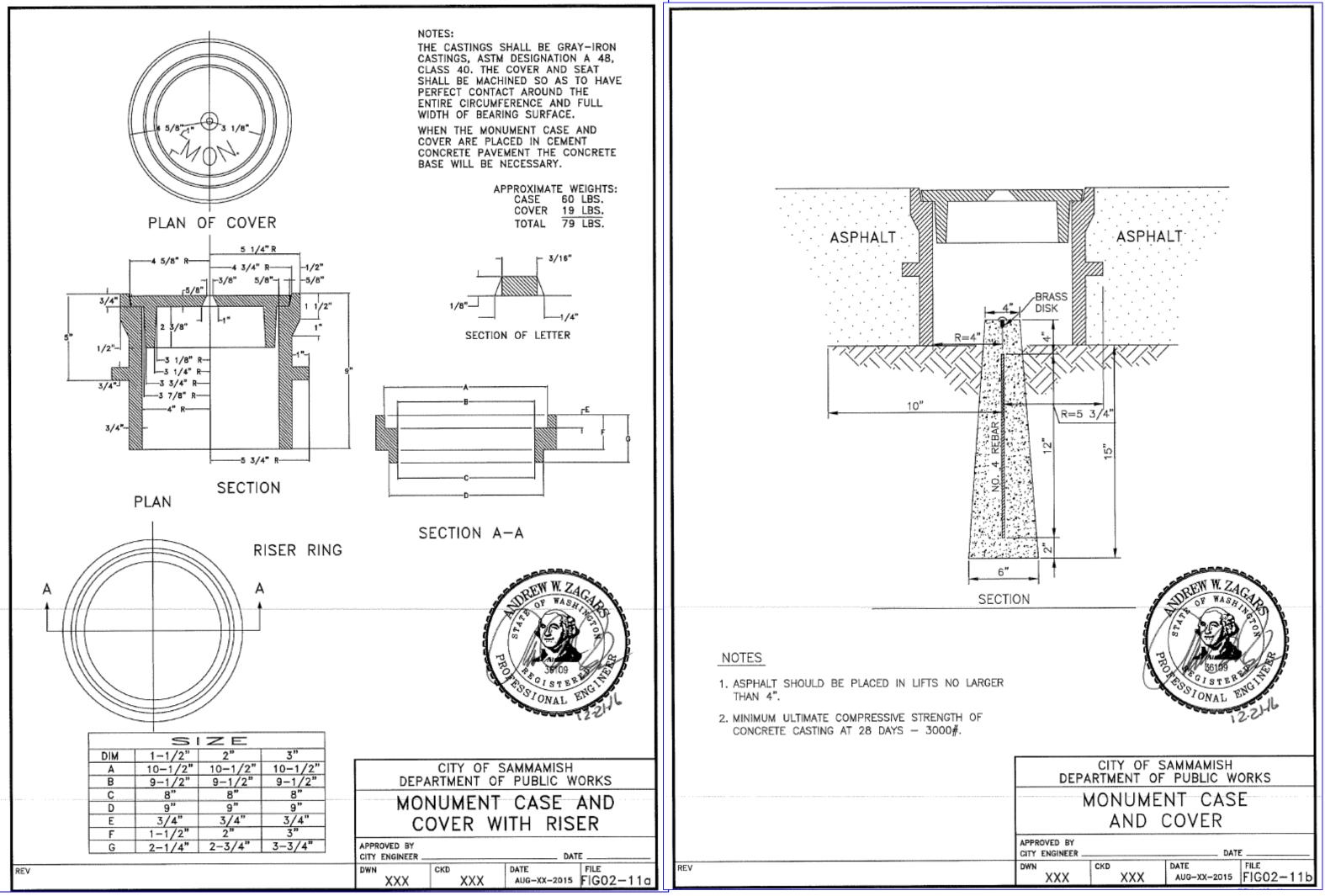
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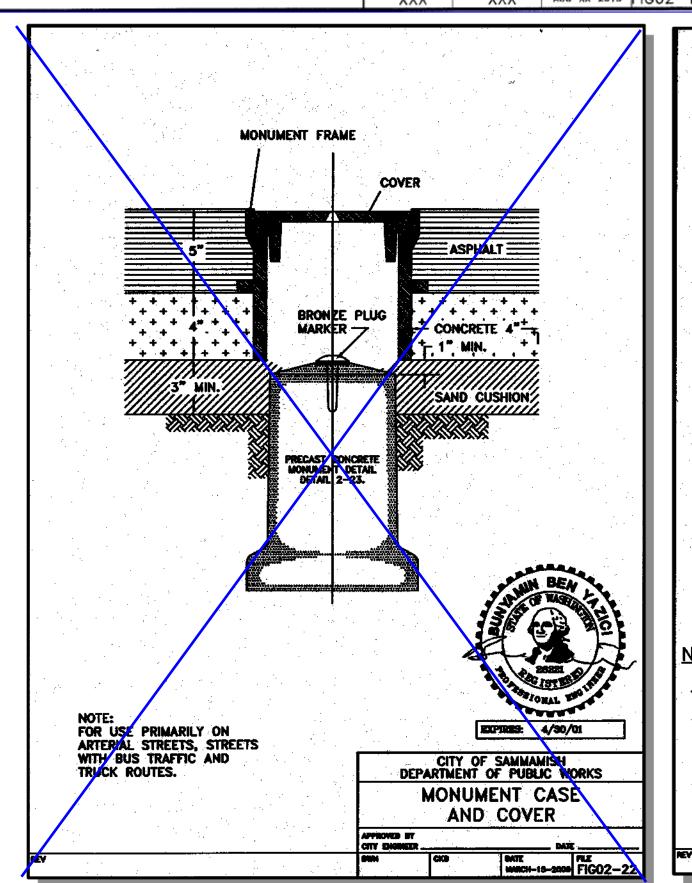
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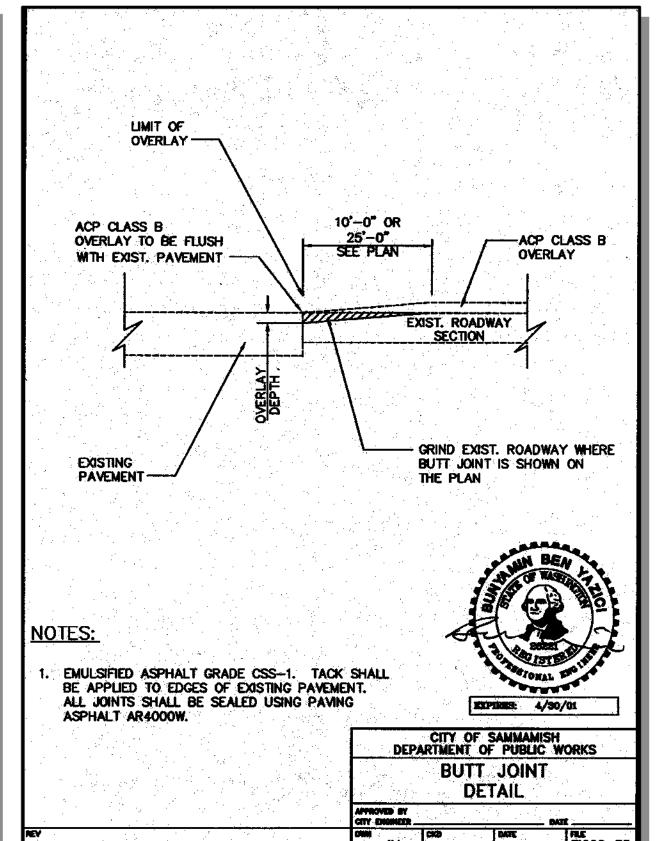
sнт <u>37</u> of <u>48</u>











The owner is responsible for all errors or omissions. The City of Sammamish assumes no liability for errors REVIEWED FOR CODE COMPLIANCE per 13.20 SMC, 14.01 SMC, and 16.15 SMC, subject to field inspection and correction.

PLANNING DEPT. APPROVAL

APPROVED WITH MARKUPS

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8/5/19 15-111 SHEET NAME: DT-03

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25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM

SCALE: AS NOTED

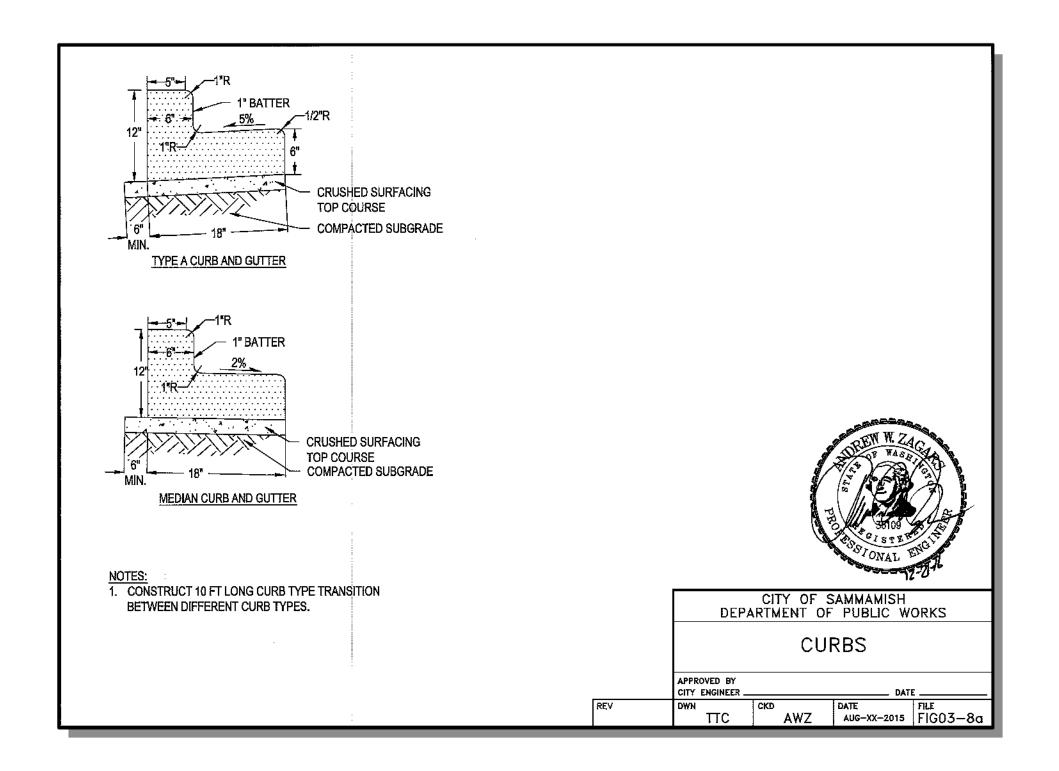
PROJECT MANAGER: BRETT K PUDISTS, PE

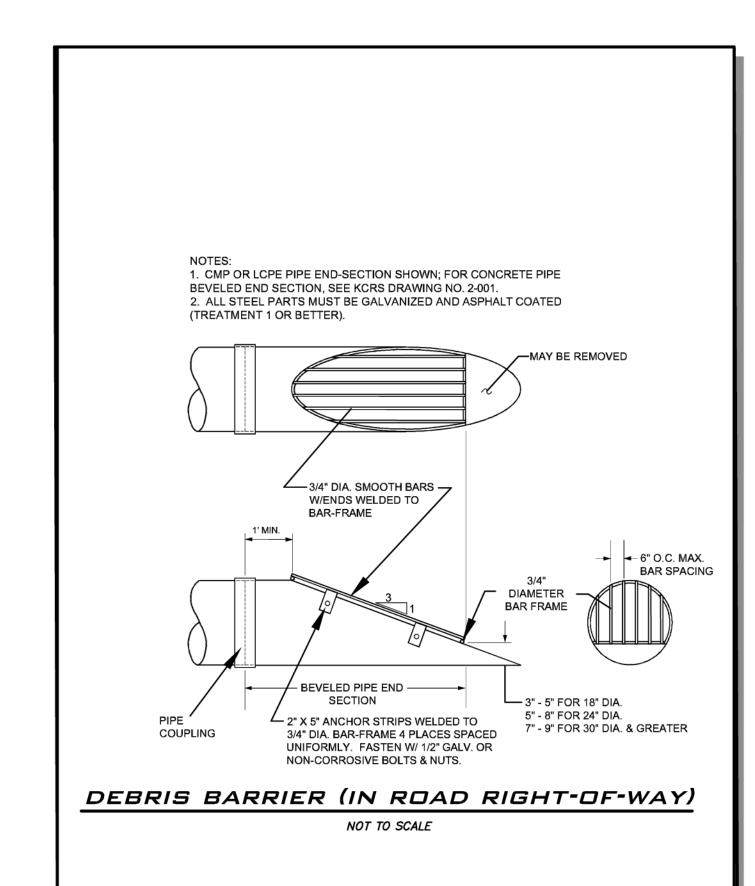
PROJECT ENGINEER: BRETT K PUDISTS, PE DESIGNER:

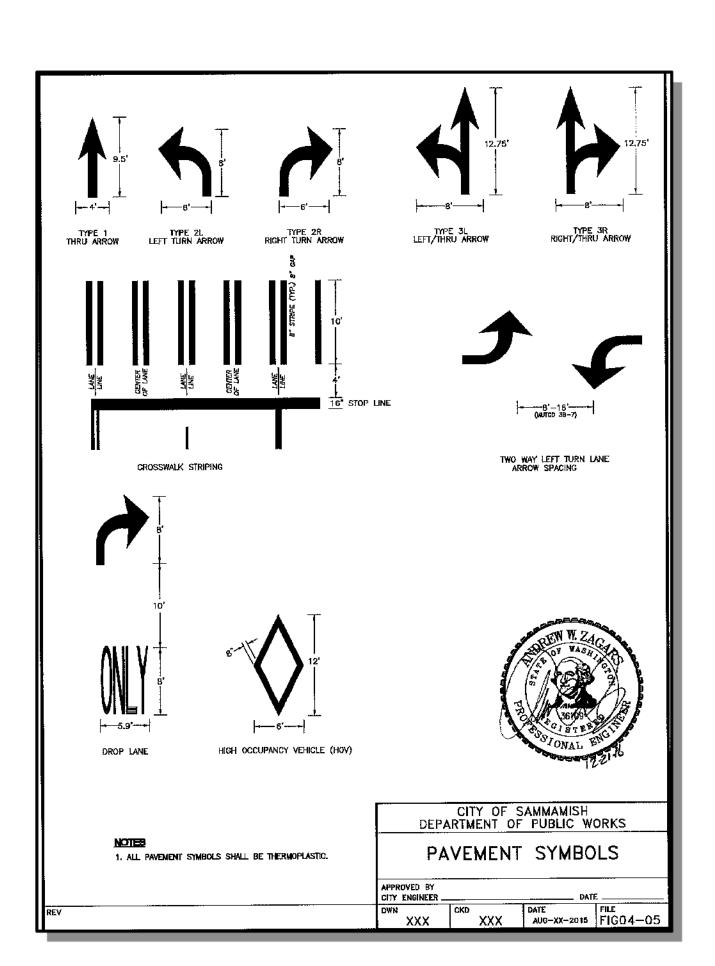
AARON C LANCE ISSUE DATE: 8/5/2019

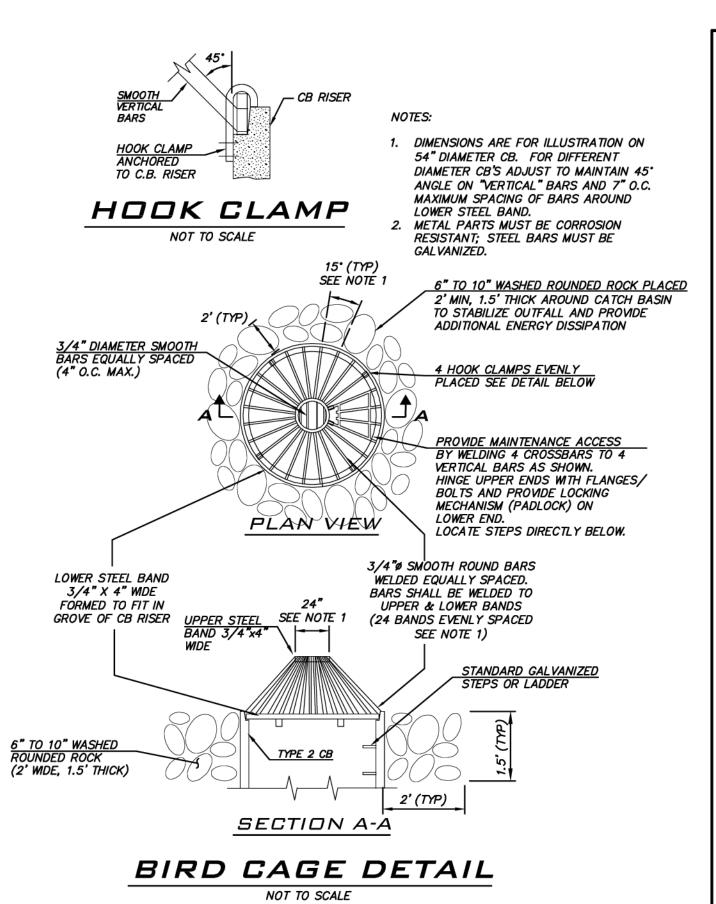
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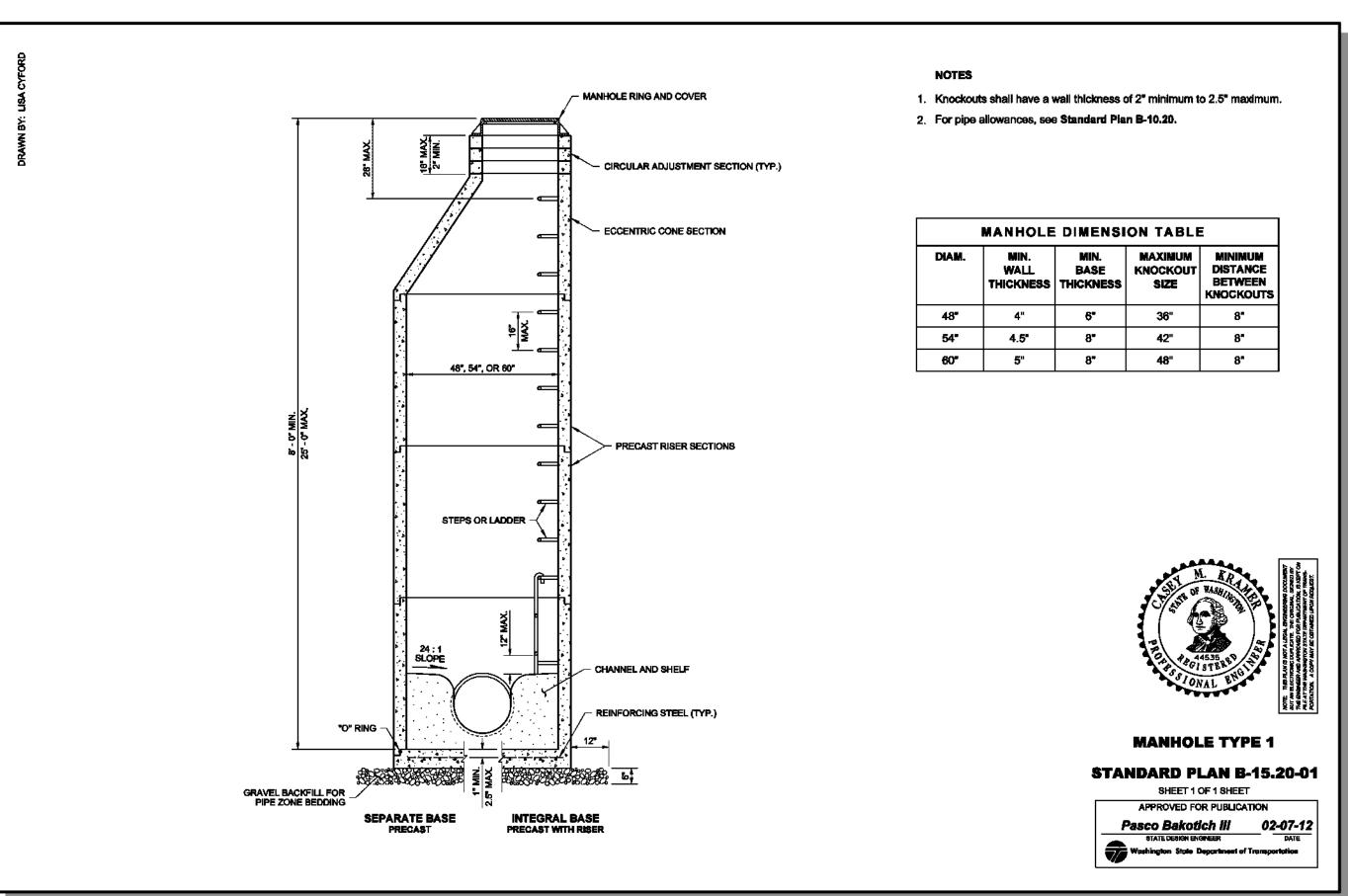
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BY: ABaty DATE: 08/16/2019

ROW2019-03272

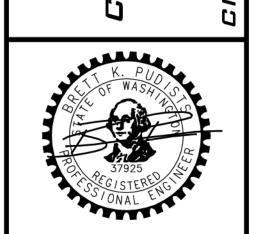


AS NOTED PROJECT MANAGER:

BRETT K PUDISTS, PE PROJECT ENGINEER: BRETT K PUDISTS, PE

DESIGNER: AARON C LANCE

ISSUE 8/5/2			-			
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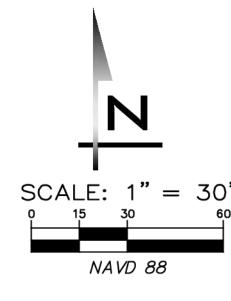
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JOB NUMBER: 15-111

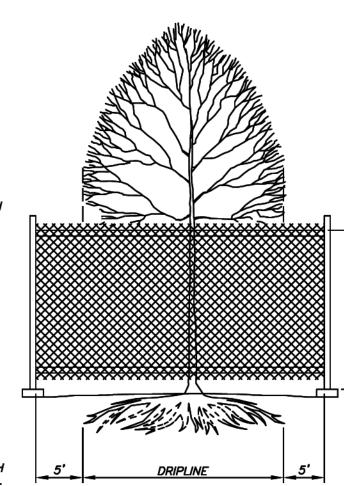
SHEET NAME:

sнт <u>39</u> ог <u>48</u>

DT-04

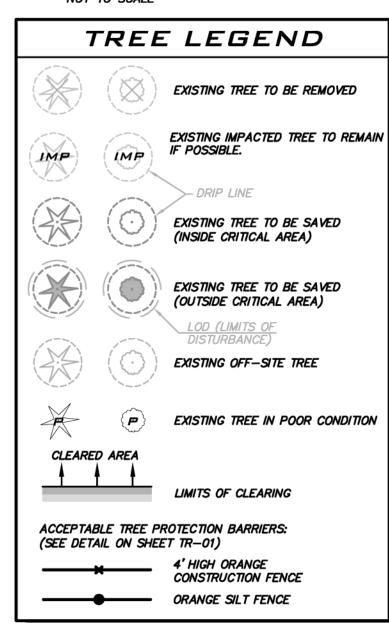


- 1. 4' HIGH ORANGE CONSTRUCTION FENCE OR SILT FENCE SHALL BE PLACED 5' FROM DRIPLINE OF TREE TO BE SAVED UNLESS OTHERWISE NOTED. FENCE SHALL COMPLETELY ENCIRCLE TREE(S) WITH SIGNS READING "TREE SAVE AREA". INSTALL FENCE POSTS USING PIER BLOCKS ONLY. AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
- 2. TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS OVER 1" IN DIAMETER DAMAGED DURING CONSTRUCTION, MAKE A CLEAN STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING, AND COVERED WITH SOIL AS SOON AS POSSIBLE.
- NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMIT OF THE FENCING. FENCING SHALL NOT BE MOVED OR REMOVED UNLESS APPROVED BY THE CITY PLANNING OFFICIAL. WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY UNDER THE SUPERVISION OF THE ON-SITE ARBORIST AND WITH PRIOR APPROVAL BY THE CITY PLANNING OFFICIAL.



TREE PROTECTION BARRIER

NOT TO SCALE



NOTES

CALCULATIONS

- SEE SHEET LS-01 FOR REPLACEMENT TREE PLANTINGS SEE SHEET TR-05 FOR TREE REPLACEMENT TREE

CITY OF SAMMAMISH APPROVAL BLOCK or omissions.

REVIEWED FOR CODE COMPLIANCE subject to field inspection and correction

TREE IN POOR HEALTH NOTES

- TREE IDENTIFIED BY ARBORIST AS HAVING POOR HEALTH AND COUNTED SEPARATELY IN TREE RETENTION AND REPLACEMENT CALCULATIONS.
- TREE LOCATED BEHIND CLEARING LIMITS SHALL BE EVALUATED BY ARBORIST DURING CONSTRUCTION TO DETERMINE WHETHER OR NOT IT CAN REMAIN WITHOUT BECOMING A HAZARD. IF NOT, TREE SHOULD EITHER BE CUT TO A SAFE HEIGHT AND SNAGGED OR CUT AND LEFT IN TRACT D OR TRACT H FOR HABITAT. STUMP TO BE LEFT IN PLACE AND CARE TAKEN DURING CUTTING TO PREVENT DISTURBANCE TO ADJACENT TREES TO REMAIN.
- POOR TREES THAT ARE CUT SHALL HAVE REPLACEMENT TREES PLANTED AT 1:1 RATIO. SEE CALCULATIONS ON SHEET TR-05. REPLACEMENT TREES SHALL BE LOCATED IN TRACT D OR TRACT H NEAR THE LOCATION OF THE CUT TREE OR AS OTHERWISE APPROVED BY THE ARBORIST.

SEE SHEET TR-02

IMPACTED TREE NOTES

- TREE IS IMPACTED BY PROPOSED ACTIVITIES AND DOES NOT MEET "SAVED TREE" CRITERIA.
- TREE TO BE EVALUATED BY ARBORIST DURING CONSTRUCTION TO DETERMINE WHETHER OR NOT IT CAN SURVIVE AND REMAIN WITHOUT BECOMING A HAZARD. IF NOT, TREE SHOULD EITHER BE CUT TO A SAFE HEIGHT AND SNAGGED OR CUT AND LEFT IN TRACT D FOR HABITAT. STUMP TO BE LEFT IN PLACE AND CARE TAKEN DURING CUTTING TO PREVENT DISTURBANCE TO ADJACENT TREES TO REMAIN.
- IMPACTED TREES HAVE BEEN COUNTED AS REMOVED IN TREE RETENTION AND REPLANTING CALCULATIONS.

UNDERGROUND UTILITY NOTE

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

BLUELINE

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

WWW.THEBLUELINEGROUP.COM SCALE:

AS NOTED PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER: BRETT K PUDISTS, PE DESIGNER: AARON C LANCE

ISSUE DATE: 8/5/2019

REVISIONS	REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS, VAULT PLANS MODIFIED TO MATCH STRUCTURAL	REVISED PER CITY COMMENTS			
ВУ	RAB	ACL	RAB			
DATE	5/10/19	7/26/19	8/2/19			
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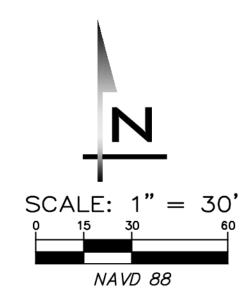
5/10/2019

15-111

SHEET NAME: TR-01

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SEE SHEET TR-01





25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM

SCALE: AS NOTED

PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER: BRETT K PUDISTS, PE

DESIGNER: AARON C LANCE

ISSUE DATE:

8/5/2	2019					
REVISIONS	REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS, VAULT PLANS MODIFIED TO MATCH STRUCTURAL	REVISED PER CITY COMMENTS			
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DATE	5/10/19	7/26/19	8/5/19			
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5/10/2019

15-111

SHEET NAME:

TR-02

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NOTES

- SEE SHEET LS-01 FOR REPLACEMENT TREE PLANTINGS SEE SHEET TR-05 FOR TREE REPLACEMENT TREE CALCULATIONS
- SEE SHEET TR-01 FOR TREE LEGEND & TREE PROTECTION BARRIER DETAIL

CITY OF SAMMAMISH

APPROVAL BLOCK REVIEWED FOR CODE COMPLIANCE
per 13.20 SMC, 14.01 SMC, and 16.15 SMC, subject to field inspection and correction.

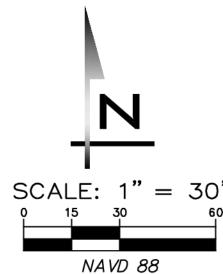
UNDERGROUND UTILITY NOTE

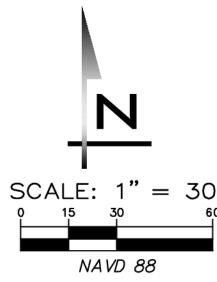
UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION 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 CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

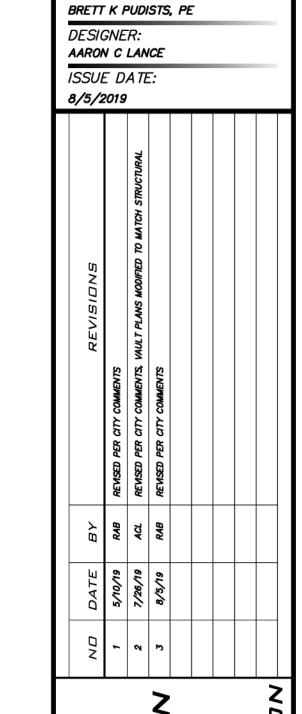
IMPACTED TREE

SEE NOTES ON SHEET TR-01

SEE SHEET TR-04







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PROJECT MANAGER: BRETT K PUDISTS, PE PROJECT ENGINEER:

SCALE: AS NOTED

SEE SHEET TR-05 FOR TREE REPLACEMENT TREE CALCULATIONS

SEE SHEET TR-01 FOR TREE LEGEND & TREE PROTECTION BARRIER DETAIL

CITY OF SAMMAMISH

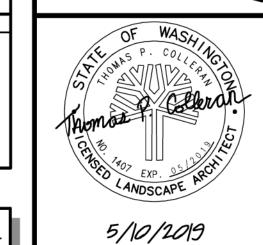
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NOTES

- SEE SHEET LS-01 FOR REPLACEMENT TREE PLANTINGS



15-111 SHEET NAME: TR-03

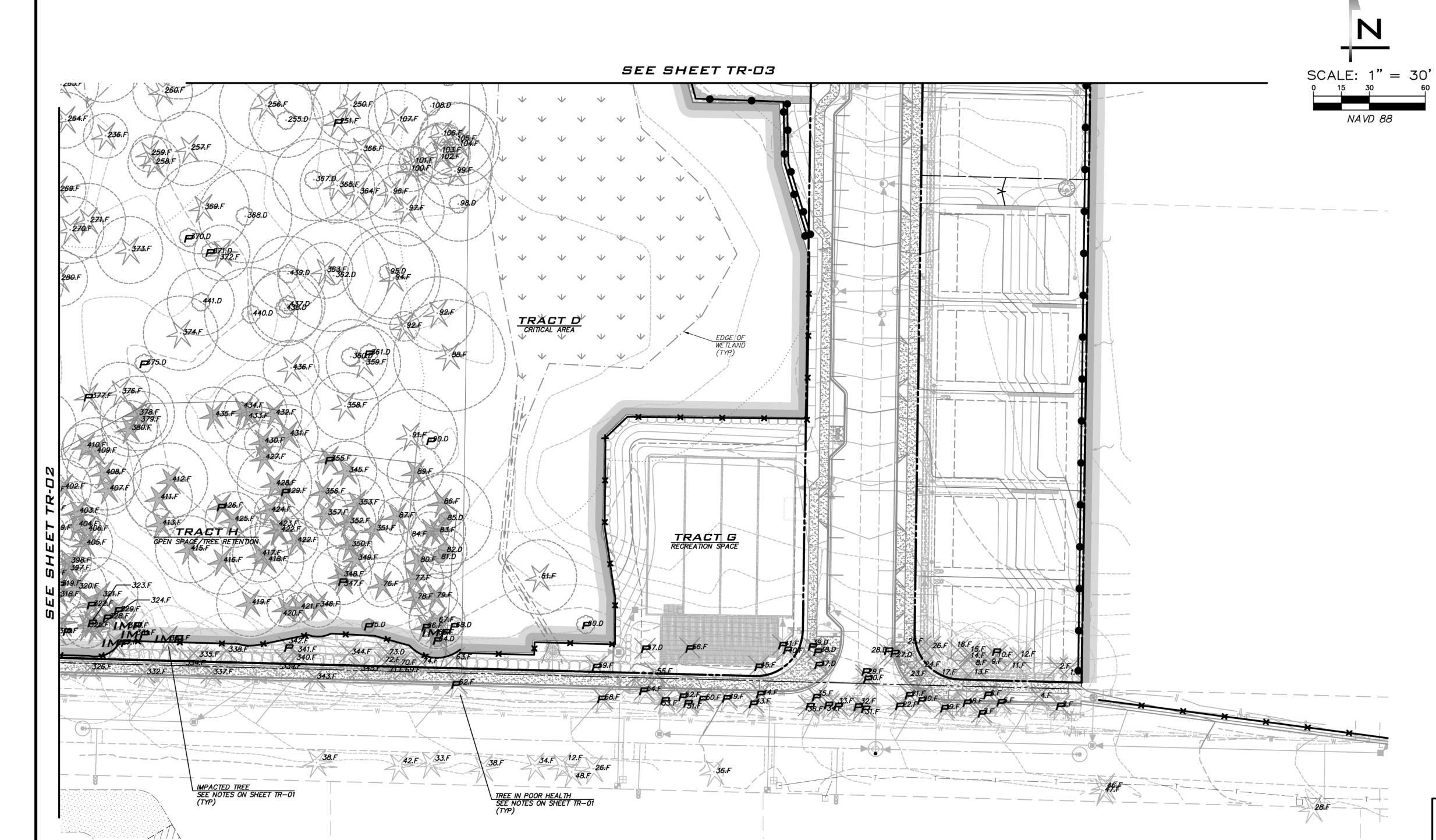
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SCALE: AS NOTED

PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER: BRETT K PUDISTS, PE

DESIGNER:

AARON C LANCE

ISSUE DATE:

8/5/2	2019	ı				
REVISIONS	REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS, VAULT PLANS MODIFIED TO MATCH STRUCTURAL	REVISED PER CITY COMMENTS			
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NOTES

- SEE SHEET LS-01 FOR REPLACEMENT TREE PLANTINGS SEE SHEET TR-05 FOR TREE REPLACEMENT TREE CALCULATIONS
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5/10/2019

15-111 SHEET NAME:

TR-04

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Control

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Tree	Species	DBH	Condition	Crown Position	Drip Line	Root	Healthy	Heritage or	Planned Save/			
#		(in)			Radius	Protection	Tree	Landmark	Remove	D	t Tree Qty:	
2	Douglas-fir Douglas-fir	38	Good Good	Dominant Intermediate	25 20	30 20	Yes Yes	Landmark	Remove Remove	No No	3	0
8	Douglas-fir	22	Good	Co-dominant	20	20	Yes	Heritage	Remove	No	2	0
9	Douglas-fir	14	Fair	Intermediate	12	12	Yes	TRITTUE	Remove	No	1	0
10	Douglas-fir	12	Poor	Suppressed			No		Remove	No	1	0
11	Douglas-fir	19	Fair	Co-dominant	12	15	Yes		Remove	No	1	0
12	Douglas-fir	20	Good	Co-dominant	16	16	Yes		Remove	No	1	0
13	Douglas-fir	22	Good	Dominant	16	16	Yes	Heritage	Remove	No	2	0
14	Douglas-fir	14	Fair	Intermediate	15	14	Yes		Remove	No	1	0
15	Cedar	13	Fair	Suppressed	12	12	Yes		Remove	No	1	0
16	Douglas-fir	24	Good	Co-dominant	15	20	Yes	Heritage	Remove	No	2	0
17 23	Douglas-fir Douglas-fir	13	Fair Fair	Intermediate Co-dominant	12 18	12 18	Yes Yes	Heritage	Remove Remove	No No	2	0
24	Douglas-fir	30	Fair	Dominant	16	25	Yes	Heritage	Remove	No	2	0
25	Douglas-fir	28	Good	Dominant	16	20	Yes	Heritage	Remove	No	2	0
26	Douglas-fir	15	Fair	Co-dominant	15	15	Yes	110110480	Remove	No	1	0
27	Red Alder	13	Poor	Intermediate			No		Remove	No	1	0
28	Red Alder	13	Poor	Intermediate			No		Remove	No	1	0
29	Douglas-fir	10	Very-Poor	Suppressed			No		Remove	No	1	0
30	Douglas-fir	11	Very-Poor	Suppressed			No		Remove	No	1	0
37	Red Alder	16	Dead	Co-dominant			No		Remove	No	1	0
38	Red Alder	20	Dead	Dominant			No No		Remove	No No	1	0
39	Red Alder	16	Dead	Dominant Intermediate			No No		Remove	No No	1	0
40	Douglas-fir Douglas-fir	12.12	Poor – Poor –	Intermediate Dominant	18	22	No No	Poor Health	Remove Remove	No No	1	0
45	Douglas-fir	38	Poor –	Dominant	16	30	No	Poor Health	Remove	No	1	0
46	Douglas-fir	17	Poor –	Intermediate	17	17	No	1 GGI TICALII	Remove	No	1	0
47	Douglas-fir	28	Dead	Co-dominant	15	22	No	Dead	Remove	No	1	0
55	Cedar	18	Fair	Intermediate	12	15	Yes		Remove	No	1	0
56	Douglas-fir	16	Poor –	Intermediate			No		Remove	No	1	0
57	Maple	50	Poor – Stem	Co-dominant			No	Poor Health	Remove	No	1	0
59	Hemlock	22	Poor – Stem	Co-dominant			No	Poor Health	Remove	Yes	1	0
60	Red Alder	16	Poor	Intermediate			No		Save	Yes	0	0
61	Douglas-fir	26	Good	Dominant	20	25	Yes	Heritage	Save	Yes	0	0
63	Douglas-fir	14	Fair	Intermediate	12	12	Yes		Remove	Yes	1	0
64	Maple	13	Poor	Suppressed			No		Save	No	0	0
65	Douglas-fir	15	Fair	Co-dominant	12	12	Yes		Remove	No	1	0
66 67	Douglas-fir	8	Poor Fair	Suppressed	15	15	No Yes		Save	No No	0	0
68	Douglas-fir Maple	14	Poor	Dominant Suppressed	15	13	No		Save Save	No	0	0
69	Douglas-fir	30	Fair	Dominant	20	25	Yes	Heritage	Remove	No	2	0
70	Douglas-fir	21	Fair	Co-dominant	12	20	Yes		Remove	No	1	0
71	Douglas-fir	19	Fair	Co-dominant	10	15	Yes		Remove	No	1	0
72	Douglas-fir	22	Fair	Co-dominant	10	15	Yes	Heritage	Remove	No	2	0
73	Douglas-fir	23	Fair	Co-dominant	15	18	Yes	Heritage	Remove	No	2	0
74	Douglas-fir	26	Fair	Dominant	15	20	Yes	Heritage	Remove	No	2	0
75	Maple	35	Very-Poor	Suppressed			No	Poor Health	Save	No	0	0
76	Douglas-fir	16	Fair	Co-dominant	12	15	Yes		Save	No	0	1
77	Douglas-fir	22	Fair	Co-dominant	16	20	Yes	Heritage	Save	No	0	1.75
78	Douglas-fir	14	Fair	Co-dominant	10	14	Yes		Save	No	0	1
79 80	Douglas-fir Douglas-fir	13	Fair Fair	Co-dominant	12 8	14 10	Yes Yes		Save	No No	0	1
81	Douglas-lir Maple	10	Fair Fair	Intermediate Intermediate	12	10	Yes		Save Save	No	0	1
82	Maple Maple	13	Fair	Intermediate	12	12	Yes		Save	No	0	1
83	Douglas-fir	18	Fair	Co-dominant	15	15	Yes		Save	No	0	1
84	Douglas-fir	11	Fair	Intermediate	10	10	Yes		Save	No	0	1
85	Maple	13.21	Fair	Intermediate	25	20	Yes		Save	No	0	1
86	Douglas-fir	17	Fair	Co-dominant	15	15	Yes		Save	No	0	1
87	Douglas-fir	8.9	Fair	Intermediate	10	10	Yes		Save	No	0	1
88	Douglas-fir	40	Good	Dominant	30	30	Yes	Heritage	Save	Yes	0	0
89	Douglas-fir	18	Fair	Co-dominant	15	15	Yes		Save	No	0	1
90	Maple	16	Dead	To :	0.5	20	No	T.T. :	Save	Yes	0	0
91	Douglas-fir	40	Fair Good	Dominant Co. dominant	25	30	Yes	Heritage	Save	Yes	0	0
92 93	Cedar Douglas-fir	28	Good Fair	Co-dominant	20 8	20 8	Yes Yes	Heritage	Save Save	Yes Yes	0	0
93	Douglas-fir Douglas-fir	36	Fair Fair	Suppressed Dominant	25	30	Yes	Heritage	Save	Yes	0	0
95	Maple	18	Fair	Intermediate	25	20	Yes	TETHASE	Save	Yes	0	0
96	Douglas-fir	12	Fair	Intermediate	15	12	Yes		Save	Yes	0	0
97	Douglas-fir	22	Good	Co-dominant	20	20	Yes	Heritage	Save	Yes	0	0
98	Maple	18	Fair	Intermediate	20	20	Yes		Save	Yes	0	0
99	Douglas-fir	32	Fair	Dominant	20	25	Yes	Heritage	Save	Yes	0	0
100	Douglas-fir	16	Fair	Intermediate	12	12	Yes		Save	Yes	0	0
101	Douglas-fir	8	Fair	Suppressed	8	8	Yes		Save	Yes	0	0
102	Douglas-fir	21	Fair	Co-dominant	16	16	Ves		Save	Vec	٥	Λ

Tree #	Species	DBH (in)	Condition	Crown Position	Drip Line Radius	Root Protection	Healthy Tree	Heritage or Landmark	Planned Save/ Remove	In Tract D	Replacemen t Tree Qty:	
107	Douglas-fir	18	Good	Co-dominant	16	16	Yes	Lantunai K	Save	Yes	0 0	0
108	Maple	26	Fair	Co-dominant	30	25	Yes	Heritage	Save	Yes	0	0
109	Maple	17	Poor				No		Save	Yes	0	0
110	Douglas-fir	21	Fair	Co-dominant	15	15	Yes		Save	Yes	0	0
111	Douglas-fir	21	Fair	Co-dominant	15	15	Yes		Save	Yes	0	0
112	Douglas-fir Douglas-fir	20 12	Fair Fair	Co-dominant	15 8	15 10	Yes Yes		Save	Yes Yes	0	0
113 114	Red Alder	18	Dead	Suppressed	8	10	No Yes		Save Save	Yes	0	0
115	Douglas-fir	13	Poor	Suppressed			No		Save	Yes	0	0
116	Maple	16	Fair	Intermediate	20	20	Yes		Save	Yes	0	0
117	Douglas-fir	24	Good	Dominant	20	20	Yes	Heritage	Save	Yes	0	0
118	Douglas-fir	22	Good	Dominant	16	16	Yes	Heritage	Save	Yes	0	0
119	Douglas-fir	12	Fair	Suppressed	10	10	Yes		Save	Yes	0	0
120	Douglas-fir	23	Good	Dominant	20	20	Yes	Heritage	Save	Yes	0	0
121	Douglas-fir	8	Fair	Suppressed	10	8	Yes		Save	Yes	0	0
122	Maple	17	Fair	Intermediate	20	20	Yes		Save	Yes	0	0
123 124	Douglas-fir Douglas-fir	17 14	Fair Fair	Co-dominant Co-dominant	12 12	15 14	Yes Yes		Save Save	Yes Yes	0	0
125	Douglas-fir	16	Fair	Co-dominant	14	15	Yes		Save	Yes	0	0
126	Douglas-fir	34	Good	Dominant Dominant	22	30	Yes	Heritage	Save	Yes	0	0
127	Maple	13	Fair	Intermediate	20	15	Yes	Tiernage	Save	Yes	0	0
128	Cedar	18	Good	Intermediate	16	16	Yes		Save	Yes	0	0
129	Red Alder	12	Dead				No		Save	Yes	0	0
130	Douglas-fir	12	Fair	Intermediate	10	10	Yes		Save	Yes	0	0
131	Douglas-fir	9	Fair	Suppressed	10	10	Yes		Save	Yes	0	0
132	Douglas-fir	24	Fair	Dominant	16	20	Yes	Heritage	Save	Yes	0	0
133	Douglas-fir	10	Fair	Intermediate	10	10	Yes		Save	Yes	0	0
134	Cedar	8	Good	Suppressed	10	10	Yes	77 .	Save	Yes	0	0
135	Douglas-fir	23	Good	Dominant	20	20	Yes	Heritage	Remove	Yes	2	0
136 137	Douglas-fir	14 28	Fair Good	Co-dominant Co-dominant	12	12	Yes Yes	Havitassa	Save	Yes Yes	0 2	0
138	Douglas-fir Douglas-fir	30	Good	Co-dominant	20	22 25	Yes	Heritage Heritage	Remove Remove	Yes	2	0
139	Maple	13	Fair	Intermediate	25	15	Yes	Tiernage	Remove	Yes	1	0
140	Maple	18	Fair	Intermediate	25	20	Yes		Remove	No	1	0
141	Douglas-fir	13	Fair	Suppressed	12	12	Yes		Remove	Yes	1	0
142	Douglas-fir	10	Fair	Suppressed	12	12	Yes		Remove	Yes	1	0
143	Douglas-fir	14	Fair	Intermediate	12	12	Yes		Remove	Yes	1	0
144	Cedar	32	Good	Co-dominant	20	25	Yes	Landmark	Remove	No	3	0
145	Cedar	16	Good	Intermediate	12	15	Yes		Remove	No	1	0
146	Douglas-fir	11	Fair	Intermediate	12	12	Yes		Remove	No	1	0
147	Cedar	9	Good	Suppressed	10	10	Yes		Remove	No	1	0
148	Douglas-fir	38	Good	Dominant	25	30	Yes	Landmark	Remove	No	3	0
149	Douglas-fir	21	Good	Co-dominant	16	16	Yes		Remove	No	1	0
150	Red Alder	13	Fair	Co-dominant	16	15	Yes		Remove	No	1	0
151 152	Red Alder Douglas-fir	15 60	Fair Fair	Co-dominant Dominant	16 20	15 45	Yes Yes	Landmark	Remove Remove	No No	3	0
153	Cedar	72	Poor	Co-dominant	20	43	No	Poor Health	Remove	No	1	0
154	Douglas-fir	16	Fair	Co-dominant	16	16	Yes	1 Ooi 1 Callii	Remove	No	1	0
155	Douglas-fir	20	Good	Dominant	20	20	Yes		Remove	No	1	0
156	Red Alder	26	Very-Poor	Intermediate			No	Poor Health	Remove	No	1	0
157	Cedar	48	Very-Good	Co-dominant	20	30	Yes	Landmark	Remove	No	3	0
158	Douglas-fir	32	Fair	Dominant	25	25	Yes	Landmark	Remove	No	3	0
159	Douglas-fir	16	Poor	Co-dominant			No		Remove	No	1	0
160	Douglas-fir	23	Poor	Co-dominant			No	Poor Health	Remove	No	1	0
161	Douglas-fir	35	Poor	Co-dominant			No	Poor Health	Remove	No	1	0
162	Douglas-fir	42.32	Poor	Dominant	25	25	No	Poor Health	Remove	No No	1	0
163 164	Douglas-fir Douglas-fir	34 26	Good Good	Co-dominant Co-dominant	25 20	25 20	Yes Yes	Landmark Heritage	Save Save	No No	0	1.75
165	Douglas-fir Douglas-fir	25	Good	Dominant	20	20	Yes	Hentage Hentage	Save	Yes	0	0
166	Cedar	14	Fair	Suppressed	12	12	Yes	Tiontage	Save	Yes	0	0
167	Douglas-fir	10	Fair	Suppressed	8	8	Yes		Save	Yes	0	0
168	Douglas-fir	14	Fair	Intermediate	12	12	Yes		Remove	No	1	0
169	Cedar	10	Fair	Suppressed	8	8	Yes		Save	Yes	0	0
170	Douglas-fir	18	Fair	Intermediate	10	15	Yes		Save	Yes	0	0
171	Douglas-fir	9	Poor	Suppressed			No		Save	Yes	0	0
172	Maple	38	Fair	Dominant	40	35	Yes	Heritage	Save	Yes	0	0
173	Red Alder	14	Poor	Co-dominant			No		Save	Yes	0	0
174	Douglas-fir	13	Fair	Intermediate	12	12	Yes		Save	Yes	0	0
175	Red Alder	17	Poor	Co-dominant			No		Save	Yes	0	0
176 177	Douglas-fir Maple	9	Poor Good	Suppressed Intermediate	20	15	No Yes		Save	Yes Yes	0	0
178	Douglas-fir	32	Good	Dominant	20	25	Yes	Heritage	Save Save	Yes	0	0
179	Douglas-fir Douglas-fir	24	Fair	Co-dominant	16	20	Yes	Heritage	Save	Yes	0	0
180	Douglas-fir	28	Fair	Co-dominant	16	22	Yes	Heritage	Save	Yes	0	0
181	Douglas-fir	34	Good	Co-dominant	20	25	Yes	Heritage	Save	Yes	0	0
	Cedar	34	Good	Intermediate	18	25	Yes	Heritage	Save	Yes	0	0
182					-							
182	Maple	13	Fair	Intermediate	20	15	Yes	1	Save	Yes	0	0

Tree #	Species	DBH (in)	Condition	Crown Position	Drip Line Radius	Root Protection	Healthy Tree	Heritage or Landmark	Remove	D	t Tree Qty:	Credit
185	Maple	12	Poor	Suppressed			No		Save	Yes	0	0
186 187	Douglas-fir Douglas-fir	28	Fair Dead	Dominant	20	22	Yes No	Heritage	Save	Yes Yes	0	0
188	Douglas-fir	20	Fair	Co-dominant	20	20	Yes		Save Save	Yes	0	0
189	Douglas-fir	17	Fair	Co-dominant	18	18	Yes		Save	Yes	0	0
190	Maple	13	Poor	Co-dominant	10		No		Save	Yes	0	0
191	Maple	16	Fair	Intermediate	20	20	Yes		Save	Yes	0	0
192	Maple	18	Poor	Intermediate			No		Save	Yes	0	0
193	Maple	15	Poor	Intermediate			No		Save	Yes	0	0
194	Maple	18	Poor	Intermediate			No		Save	Yes	0	0
195	Douglas-fir	36	Fair	Dominant	22	25	Yes	Heritage	Save	Yes	0	0
196	Douglas-fir	20	Fair	Co-dominant	22	20	Yes		Save	Yes	0	0
197 198	Hemlock Douglas-fir	16	Fair Fair	Co-dominant Co-dominant	15 20	15 20	Yes Yes		Save Save	Yes Yes	0	0
199	Douglas-fir	12	Fair	Intermediate	12	12	Yes		Save	Yes	0	0
200	Douglas-fir	23	Fair	Dominant	20	20	Yes	Heritage	Save	Yes	0	0
201	Douglas-fir	18	Fair	Co-dominant	20	20	Yes	Tiernage	Save	Yes	0	0
202	Red Alder	14	Poor	Intermediate			No		Save	Yes	0	0
203	Red Alder	16	Dead				No		Save	Yes	0	0
204	Red Alder	18	Fair	Co-dominant	16	16	Yes		Save	Yes	0	0
205	Douglas-fir	14	Poor	Intermediate			No		Save	Yes	0	0
206	Cedar	10	Fair	Suppressed	12	10	Yes		Save	Yes	0	0
207	Cedar	16	Good	Suppressed	12	14	Yes		Save	Yes	0	0
208	Cedar	10	Fair	Suppressed	10	10	Yes	TT :	Save	Yes	0	0
209	Douglas-fir	27	Good	Dominant	20	20	Yes	Heritage	Save	Yes	0	0
210	Douglas-fir Cedar	13 18	Fair	Suppressed	10	10 15	Yes Yes		Save	Yes Yes	0	0
211	Douglas-fir	32	Good Good	Intermediate Co-dominant	12 18	25	Yes	Heritage	Save Save	Yes	0	0
213	Douglas-fir	30	Good	Co-dominant	18	25	Yes	Heritage	Save	Yes	0	0
214	Douglas-fir	10	Fair	Suppressed	10	10	Yes	Tierrage	Save	Yes	0	0
215	Douglas-fir	32	Fair	Dominant	20	25	Yes	Heritage	Remove	Yes	2	0
216	Douglas-fir	8	Poor	Suppressed			No		Save	Yes	0	0
217	Maple	15	Fair	Intermediate	20	20	Yes		Save	Yes	0	0
218	Cedar	13	Fair	Suppressed	12	12	Yes		Save	Yes	0	0
219	Red Alder	14	Poor	Intermediate			No		Save	Yes	0	0
220	Douglas-fir	40	Fair	Dominant	20	30	Yes	Heritage	Save	Yes	0	0
221	Maple	18	Fair	Intermediate	15	15	Yes		Save	Yes	0	0
222	Douglas-fir	10	Fair	Suppressed	12	10	Yes		Save	Yes	0	0
223	Douglas-fir	17	Fair	Co-dominant	15	15	Yes	TT :	Save	Yes	0	0
224 225	Cedar Douglas-fir	28 14	Good Fair	Co-dominant Intermediate	15 12	20 12	Yes Yes	Heritage	Save Save	Yes Yes	0	0
226	Maple	17	Fair	Co-dominant	20	20	Yes		Save	Yes	0	0
227	Douglas-fir	22	Fair	Co-dominant	15	18	Yes	Heritage	Save	Yes	0	0
228	Douglas-fir	10	Poor	Suppressed	15	10	No	Tierrage	Save	Yes	0	0
229	Douglas-fir	11	Fair	Intermediate	10	10	Yes		Save	Yes	0	0
230	Cedar	19	Fair	Co-dominant	16	16	Yes		Save	Yes	0	0
231	Cedar	20	Poor	Co-dominant			No		Save	Yes	0	0
232	Cedar	28	Fair	Co-dominant	15	20	Yes	Heritage	Save	Yes	0	0
233	Douglas-fir	9	Fair	Suppressed	8	8	Yes		Save	Yes	0	0
234	Cedar	27	Good	Intermediate	15	20	Yes	Heritage	Save	Yes	0	0
235	Red Alder	15.18	Poor	Intermediate			No		Save	Yes	0	0
236	Cedar	17	Fair	Intermediate	12	15	Yes	77	Save	Yes	0	0
237	Douglas-fir	22	Fair	Dominant	15	20	Yes	Heritage	Save	Yes	0	0
238	Cedar Hemlock	28 12	Good Poor	Co-dominant Intermediate	15	20	Yes No	Heritage	Save Save	Yes Yes	0	0
239	Douglas-fir	16	Poor	Intermediate			No		Save	Yes	0	0
241	Red Alder	16	Dead	Intermediate			No		Save	Yes	0	0
242	Maple	14	Fair	Co-dominant	20	20	Yes		Save	Yes	0	0
243	Cedar	24	Good	Co-dominant	15	20	Yes	Heritage	Save	Yes	0	0
244	Douglas-fir	16	Fair	Intermediate	12	12	Yes		Save	Yes	0	0
245	Douglas-fir	32	Good	Dominant	20	25	Yes	Heritage	Save	Yes	0	0
246	Douglas-fir	16	Fair	Intermediate	12	12	Yes		Save	Yes	0	0
247	Cedar	18	Good	Intermediate	15	15	Yes		Save	Yes	0	0
248	Douglas-fir	17	Fair	Co-dominant	12	12	Yes		Save	Yes	0	0
249	Cedar	8	Good	Suppressed	10	10	Yes	77 1	Save	Yes	0	0
250	Douglas-fir	30	Fair	Dominant Co. dominant	20	25	Yes	Heritage	Save	Yes	0	0
251 252	Douglas-fir Maple	24 15	Poor Fair	Co-dominant Intermediate	20	15	No Yes	Poor Health	Save Save	Yes Yes	0	0
252	Douglas-fir	32	Fair Fair	Dominant	20	25	Yes	Heritage	Save	Yes	0	0
253	Maple	16	Fair Fair	Intermediate	25	20	Yes	Tieritage	Save	Yes	0	0
255	Maple	12	Fair	Intermediate	20	15	Yes		Save	Yes	0	0
256	Douglas-fir	34	Fair	Dominant	25	30	Yes	Heritage	Save	Yes	0	0
257	Cedar	46	Fair	Co-dominant	20	30	Yes	Heritage	Save	Yes	0	0
258	Cedar	36.10	Fair	Co-dominant	14	20	Yes	Heritage	Save	Yes	0	0
259	Douglas-fir	12	Fair	Intermediate	10	10	Yes		Save	Yes	0	0
260	Cedar	40	Fair	Co-dominant	16	30	Yes	Heritage	Save	Yes	0	0
261	Maple	12	Fair	Intermediate	15	12	Yes		Save	Yes	0	0
262	Douglas-fir	44	Fair	Dominant	25	30	Yes	Heritage	Save	Yes	0	0

TREE SAVE CALCS

102 Douglas-fir 21 Fair Co-dominant 16 16 Yes

103 Douglas-fir 18 Fair Co-dominant 15 15 Yes

106 Douglas-fir 9 Fair Suppressed 6 8

 104
 Maple
 14
 Fair
 Suppressed
 22
 18
 Yes

 105
 Douglas-fir
 24
 Fair
 Co-dominant
 20
 20
 Yes
 Heritage

TREE SAVE REQUIRED (OUTSIDE BUFFER AND CRITICAL AREAS): 35% OF TREES TO BE RETAINED

TREE SAVE PROVIDED (OUTSIDE BUFFER AND CRITICAL AREAS): 43% OF TREES TO BE RETAINED

92 SIGNIFICANT TREES TO BE SAVED / 213 SIGNIFICANT TREES ONSITE (OUTSIDE BUFFER AND CRITICAL AREAS)

TREE PROTECTION NOTES

- (5) PROTECTION MEASURES. TO ENSURE LONG—TERM VIABILITY OF TREES IDENTIFIED FOR PROTECTION, PERMIT PLANS AND CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE FOLLOWING MINIMUM REQUIRED TREE PROTECTION:
- (a) ALL MINIMUM REQUIRED TREE PROTECTION MEASURES SHALL BE SHOWN ON THE TREE PROTECTION AND REPLACEMENT PLAN.
- (b) TREE PROTECTION BARRIERS SHALL BE INSTALLED FIVE FEET BEYOND THE DRIP LINE OF SIGNIFICANT TREES TO BE PROTECTED PRIOR TO ANY LAND DISTURBANCE.
- (c) TREE PROTECTION BARRIERS SHALL BE A MINIMUM OF FOUR FEET HIGH, CONSTRUCTED OF CHAIN LINK, OR POLYETHYLENE LAMINAR SAFETY FENCING OR OTHER MATERIAL, SUBJECT TO APPROVAL BY THE DIRECTOR. ON LARGE OR MULTIPLE—PROJECT SITES, THE DIRECTOR MAY ALSO REQUIRE THAT SIGNS REQUESTING SUBCONTRACTOR COOPERATION AND COMPLIANCE WITH TREE PROTECTION STANDARDS BE POSTED AT SITE ENTRANCES.
- (d) WHERE TREE PROTECTION AREAS ARE REMOTE FROM AREAS OF LAND DISTURBANCE, AND WHERE APPROVED BY THE DIRECTOR, ALTERNATIVE FORMS OF TREE PROTECTION MAY BE USED IN LIEU OF TREE PROTECTION BARRIERS, PROVIDED THAT PROTECTED TREES ARE COMPLETELY SURROUNDED WITH CONTINUOUS ROPE OR FLAGGING AND ARE ACCOMPANIED BY "TREE SAVE AREA KEEP OUT" SIGNS.
- (e) NATIVE UNDERSTORY TREES, SHRUBS AND OTHER VEGETATION SHALL BE PROTECTED WITHIN THE DESIGNATED TREE PROTECTION AREA.

REPLACEMENT TREE CALCS (INCLUDES DEAD TREES TO BE REMOVED)

123 TREES

TREES IN POOR HEALTH TO BE REMOVED (1:1 REPLACEMENT): 50 TREES x1 50 REPLACEMENT TREES SIGNIFICANT TREES TO BE REMOVED (1:1 REPLACEMENT): 79 TREES x1 79 REPLACEMENT TREES HERITAGE TREES TO BE REMOVED (2:1 REPLACEMENT): 63 TREES x2 126 REPLACEMENT TREES LANDMARK TREES TO BE REMOVED (3:1 REPLACEMENT): 14 TREES x3 42 REPLACEMENT TREES TOTAL REPLACEMENT TREES 297 REPLACEMENT TREES

TREE RETENTION CALCS

 Save
 Yes
 0
 0

 Save
 Yes
 0
 0

Save Yes 0 0

 Save
 Yes
 0

 Save
 Yes
 0

TREES THAT ARE DEAD OR DISEASED:	106 TREES
TOTAL TREES (OUTSIDE BUFFER AND CRITICAL AREAS AKA TRACT D):	213 TREES
TREES IN CRITICAL AREA / BUFFER (NOT COUNTED IN CALCS)	255 TREES
TOTAL TREES TAGGED*	544 TREES

*ADDITIONAL 34 TREES TAGGED IN ROW NOT COUNTED IN TOTAL TREES TAGGED

TOTAL TREES (OUTSIDE BUFFER AND CRITICAL AREAS):	272 TREES 59 TREES
SIGNIFICANT TREES (OUTSIDE BUFFER AND CRITICAL AREAS):	213 TREES
TOTAL TREES TO BE REMOVED (INCLUDES TREES REMOVED IN BUFFER)TREES IN POOR HEALTH / DEAD (TO BE REMOVED)	206 TREES 50 TREES
SIGNIFICANT HEALTHY TREES TO BE REMOVED	156 TREES
TREES TO BE SAVED (OUTSIDE BUFFER AND CRITICAL AREAS AKA TRACT	D) 106 TREES
TREES IN POOR HEALTH / DEAD	14 TREES
SIGNIFICANT HEAT TH REES TO BE SAVED	92 TREES

TREE SAVE CREDITS — LANDMARK TREES 6 TREES (EXTRA 1 CREDIT PER TREE) HERITAGE TREES 33 TREES (EXTRA .75 CREDIT PER TREE) TOTAL INCENTIVES 31 CREDITS

TOTAL TREES TO BE SAVED: 92 TREES +31 CREDITS(INCENTIVES)

TREE REPLACEMENT CALCS

REQUIRED STREET TREES (50% CREDIT):	55 TREES	27 TREE CREDITS
TREES PLANTED IN BUFFERS (125% CREDIT):	197 TREES	246 TREE CREDITS
TREES PLANTED IN SWM AREAS (100% CRÉDIT):	34 TREES	34 TREE CREDITS
TOTAL REPLACEMENT TREES	S WITH CREDIT	306 TREES

TOTAL REPLACEMENT TREES WITH CREDIT (PROVIDED)

306 TREES
TOTAL REPLACEMENT TREES (REQUIRED)

297 TREES

NOTES

PER 21A.15.1333 — "A SIGNIFICANT TREE MEANS A TREE THAT IS IN A HEALTHY CONDITION AND NONINVASIVE SPECIES, INCLUDING THOSE DEFINED AS A HERITAGE TREE AND LANDMARK TREE"
TREE CALCULATIONS PER ORDINANCE 2015—3 95

TREE TABLES ARE FROM ARBORIST REPORT PREPARED BY WASHINGTON FORESTRY CONSULTANTS INC, DATED MAY 2019.

CITY OF SAMMAMISH APPROVAL BLOCK

(TABLE CONTINUED ON TR-06)

PLANNING DEPT. APPROVAL

The owner is responsible for all errors or omissions.
The City of Sammamish assumes no liability for errors or omissions.

REVIEWED FOR CODE COMPLIANCE per 13.20 SMC, 14.01 SMC, and 16.15 SMC, subject to field inspection and correction.

hstrasbourger08/09/2019
City of Sammamish Public Works Department

UNDERGROUND UTILITY NOTE

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

BLUELINE

25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED
PROJECT MANAGER:

PROJECT ENGINEER:

BRETT K PUDISTS, PE

DESIGNER: AARON C LANCE ISSUE DATE:

8/5/2019

10 DATE BY REVISED PER CITY COMMENTS
2 7/26/19 ACL REVISED PER CITY COMMENTS, VAULT PLANS MODIFIED TO MATCH STRUCTURAL
3 8/5/19 RAB REVISED PER CITY COMMENTS

TREE RETENTIONS
CALCULATIONS
TIER SE BTH SUBDIVISION

Amos LANDSCAPE ARCHIVE

5/10/2019 JOB NUMBER:

15-111

TR-05

tt <u>44</u> of <u>48</u>

#	Species	DBH (in)	Condition	Crown Position	Drip Line Radius	Root Protection	Healthy Tree	Heritage or Landmark	Planned Save/ Remove	D	Replacement Tree Qty:	
63	Douglas-fir Cedar	14 32	Fair Fair	Intermediate Co-dominant	12 15	12 25	Yes Yes	Heritage	Save Save	Yes Yes	0	0
65	Douglas-fir	32	Fair	Dominant	20	25	Yes	Heritage	Save	Yes	0	0
66 67	Cedar Douglas-fir	23,22,2	Fair Fair	Co-dominant Intermediate	20	20 10	Yes Yes	Heritage	Save Save	Yes Yes	0	0
68	Cedar	28	Good	Co-dominant	16	20	Yes	Heritage	Save	Yes	0	
69 70	Douglas-fir Cedar	20	Fair Fair	Co-dominant Intermediate	15 18	15 15	Yes Yes		Save Save	Yes Yes	0	
71 72	Cedar Cedar	40	Good Good	Dominant Intermediate	20 15	30 15	Yes Yes	Heritage	Save Save	Yes Yes	0	(
73	Douglas-fir	28	Fair	Dominant	20	20	Yes	Heritage	Save	Yes	0	
74 75	Cedar Cedar	16 14	Good Good	Intermediate Intermediate	15 15	15 14	Yes Yes		Save Save	Yes Yes	0	
76	Cedar	10	Fair	Suppressed	8	8	Yes	:	Save	Yes	0	
.77 .78	Douglas-fir Douglas-fir	36 10	Good Fair	Co-dominant Suppressed	22 10	25 10	Yes Yes	Heritage	Save Save	Yes Yes	0	(
79	Douglas-fir	26	Good	Co-dominant	20	20	Yes	Heritage	Save	Yes	0	
80	Cedar Red Alder	30	Good Very-Poor	Co-dominant Intermediate	15	20	Yes No	Heritage	Save Save	Yes Yes	0	
82 83	Red Alder Douglas-fir	17 40	Poor Good	Intermediate Dominant	25	30	No Yes	Heritage	Save Save	Yes Yes	0	
84	Cedar	8	Good	Suppressed	10	10	Yes	Tiernage	Save	Yes	0	
85 86	Cedar Cedar	9 26	Good Fair	Suppressed Co-dominant	10 16	10 20	Yes Yes	Heritage	Save Save	Yes Yes	0	H
87	Maple	16	Fair	Intermediate	25	20	Yes		Save	Yes	0	
88 89	Douglas-fir Douglas-fir	32	Fair Fair	Co-dominant Co-dominant	22 20	25 25	Yes Yes	Heritage Heritage	Save Save	Yes Yes	0	
90	Douglas-fir	33	Fair	Co-dominant	20	25	Yes	Heritage	Save	Yes	0	
91	Maple Douglas-fir	30	Fair Fair	Intermediate Co-dominant	20	12 25	Yes Yes	Heritage	Save Save	Yes Yes	0	
93	Cedar Douglas for	28	Good	Co-dominant	16	20	Yes	Heritage	Save	Yes	0	
94	Douglas-fir Cedar	28 14	Dead Fair	Suppressed	12	12	No Yes	Poor Health	Save Save	Yes Yes	0	
96	Douglas-fir Douglas-fir	32 33	Fair Fair	Co-dominant Co-dominant	20 20	25 25	Yes Yes	Heritage Heritage	Save Save	Yes Yes	0	
98	Douglas-fir	34	Fair	Co-dominant	20	26	Yes	Heritage	Save	Yes	0	
99	Douglas-fir Douglas-fir	36 42	Fair Poor – Red	Co-dominant Co-dominant	20 25	28 25	Yes No	Heritage Poor Health	Save Save	Yes Yes	0	H
01	Douglas-fir	32	Poor – Red	Co-dominant			No	Poor Health	Save	Yes	0	
02	Douglas-fir Douglas-fir	36 18	Fair Fair	Co-dominant Intermediate	25 20	28 18	Yes Yes	Heritage	Save Save	Yes Yes	0	
05 06	Douglas-fir Maple	36 14	Fair Fair	Dominant Intermediate	25 20	28 15	Yes Yes	Heritage	Remove Remove	Yes Yes	2	
07	Douglas-fir	34	Fair	Dominant	20	25	Yes	Landmark	Remove	No	3	
09 10	Douglas-fir Douglas-fir	26 18	Fair Poor	Co-dominant Co-dominant	15	20	Yes No	Heritage	Save Save	No No	0	1
11	Douglas-fir	24	Fair	Co-dominant	20	20	Yes	Heritage	Save	No	0	1
12 13	Douglas-fir Douglas-fir	27	Fair Fair	Co-dominant Intermediate	20	22 10	Yes Yes	Heritage	Save Save	No No	0	1
14	Douglas-fir	10	Fair	Intermediate	10	10	Yes		Save	No	0	
15 16	Douglas-fir Douglas-fir	32.11	Fair Fair	Co-dominant Co-dominant	20	25 25	Yes Yes	Landmark Heritage	Save Remove	No No	2	╀
17	Douglas-fir	18	Fair	Intermediate	12	15	Yes	Ŭ	Save	No	0	
18 19	Douglas-fir Douglas-fir	16 11	Fair Dead	Intermediate Suppressed	12	12	Yes No		Save Save	No No	0	
20	Douglas-fir Douglas-fir	23 25	Fair Fair	Co-dominant Co-dominant	16 20	20 20	Yes Yes	Heritage Heritage	Save Save	No No	0	1
22	Douglas-fir	8	Dead	Co-dominant	2.0	20	No No	Heritage	Save	No	0	<u> </u>
23 24	Douglas-fir Douglas-fir	8	Dead Fair	Co-dominant	15	15	No Yes		Save Save	No No	0	
25	Douglas-fir	21	Fair	Co-dominant	12	15	Yes		Save	No	0	
27 28	Douglas-fir Douglas-fir	10 24	Fair Poor	Suppressed Co-dominant	8	8	Yes No	Poor Health	Remove Save	No No	0	
29	Douglas-fir	15	Poor	Intermediate	15	**	No		Save	No	0	
30	Douglas-fir Douglas-fir	26 15	Fair Fair	Co-dominant Intermediate	15 12	20 12	Yes Yes	Heritage	Remove Remove	No No	2	
33 34	Douglas-fir Douglas-fir	28 28	Fair Fair	Co-dominant Co-dominant	18 20	20 22	Yes Yes	Heritage Heritage	Remove Remove	No No	2 2	
35 35	Douglas-lir Douglas-fir	26	Fair Fair	Co-dominant Co-dominant	16	20	Yes	Heritage Heritage	Remove	No	2	
36 38	Douglas-fir Douglas-fir	13 26	Fair Fair	Intermediate Co-dominant	12 20	12 20	Yes Yes	Heritage	Remove Remove	No No	1 2	
39	Douglas-fir	32	Fair	Co-dominant	12	25	Yes	Landmark	Remove	No	3	
40 41	Douglas-fir Douglas-fir	26 26	Fair Fair	Co-dominant Co-dominant	15 15	20 20	Yes Yes	Heritage Heritage	Remove Remove	No No	2 2	
42	Douglas-fir	10	Dead	Suppressed			No		Remove	No	1	
44 45	Douglas-fir Douglas-fir	26 25	Fair Fair	Co-dominant Co-dominant	16 16	20 20	Yes Yes	Heritage Heritage	Remove Remove	No No	2 2	
46	Douglas-fir	20	Fair	Co-dominant	12	15	Yes		Save	No	0	F
47 48	Douglas-fir Douglas-fir	8 25	Dead Fair	Co-dominant	16	20	No Yes	Heritage	Save Save	No No	0	1
49 50	Douglas-fir Douglas-fir	11 14	Fair Fair	Intermediate Co-dominant	10 12	10 12	Yes Yes		Save Save	No No	0	
51	Douglas-fir	22	Good	Co-dominant	16	16	Yes	Heritage	Save	No	0	1
52 53	Douglas-fir Douglas-fir	23 18	Good Good	Co-dominant Co-dominant	15 15	15 15	Yes Yes	Heritage	Save Save	No No	0	1
54	Douglas-fir	24	Fair	Co-dominant	18	20	Yes	Heritage	Save	No	0	1
55 56	Douglas-fir Douglas-fir	9 28.28	Poor Fair	Suppressed Co-dominant	20	25	No Yes	Heritage	Save Save	No No	0	1
57	Cedar	20	Fair Fair	Intermediate Co-dominant	12 18	15 22	Yes Yes	Heritage	Save	No Yes	0	
59	Douglas-fir Douglas-fir	28	Fair	Dominant	20	22	Yes	Heritage Heritage	Save Save	Yes	0	
60 61	Maple Red Alder	12 12	Fair Dead	Intermediate	20	15	Yes No		Save Save	Yes Yes	0	+
62	Maple	22	Fair	Co-dominant	30	25	Yes	Heritage	Save	Yes	0	
63 64	Douglas-fir Douglas-fir	17 16	Fair Fair	Co-dominant Intermediate	15 15	15 15	Yes Yes		Save Save	Yes Yes	0	-
65	Douglas-fir	34	Good	Dominant	20	25	Yes	Heritage	Save	Yes	0	
66 67	Douglas-fir Maple	14 18	Fair Fair	Intermediate Intermediate	12 22	12 15	Yes Yes		Save Save	Yes Yes	0	
68	Maple	17.14	Fair	Intermediate	25	15	Yes	Llouit	Save	Yes	0	F
69 70	Douglas-fir Red Alder	42 20	Fair Dead	Dominant	25	30	Yes No	Heritage	Save Save	Yes Yes	0	
71 72	Red Alder Douglas-fir	19 15	Poor Fair	Co-dominant Intermediate	15	15	No Vec		Save	Yes Vec	0	F
73	Douglas-fir Cedar	48	Fair Good	Intermediate Co-dominant	18	30	Yes Yes	Heritage	Save Save	Yes Yes	0	
74 75	Douglas-fir Maple	34 40	Good Poor	Dominant Co-dominant	20	25	Yes No	Heritage Poor Health	Save Save	Yes Yes	0	1
76	Douglas-fir	20	Fair	Co-dominant	16	16	Yes	1 cor meanth	Save Save	Yes	0	
77	Douglas-fir	19 32	Very-Poor Fair	Co-dominant Dominant	20	25	No Yes	Landmark	Save Save	Yes No	0	F
77 78	I Milaise-tir		тап					Lantoniank				_
78 79 80	Douglas-fir Douglas-fir Douglas-fir	18 21	Fair Fair	Intermediate Co-dominant	14 15	15 15	Yes Yes		Save Save	No No	0	H

			SW 1/4	4 SEC :	33, 7	TWP 2	5,RG	E 6E,	W.M.			
Tree #	Species	DBH (in)	Condition	Crown Position	Drip Line Radius	Root Protection	Healthy Tree	Heritage or Landmark	Planned Save/ Remove	In Tract D	Replacemen t Tree Qty:	
383 384	Cedar Douglas-fir	22 34	Good Good	Intermediate Dominant	12 15	15 25	Yes Yes	Heritage Landmark	Save Save	Yes No	0	0 2
385	Douglas-fir	16	Fair	Co-dominant	12 12	15 15	Yes		Save	No No	0	1
386 387	Douglas-fir Douglas-fir	16 25	Fair Good	Co-dominant Co-dominant	15	20	Yes Yes	Heritage	Save Save	No	0	1 1.75
388 389	Douglas-fir Douglas-fir	13 20	Fair Fair	Intermediate Co-dominant	10 12	10 15	Yes Yes		Save Save	No No	0	1
390 391	Douglas-fir Douglas-fir	25 16	Good Fair	Dominant Intermediate	20 12	20 15	Yes Yes	Heritage	Save Save	No No	0	1.75
392	Douglas-fir	14	Fair	Intermediate	10	12	Yes		Save	No	0	1
393 394	Douglas-fir Douglas-fir	14 18	Fair Fair	Intermediate Co-dominant	10 12	12 15	Yes Yes		Save Save	No No	0	1
395 396	Douglas-fir Douglas-fir	26 16	Fair Fair	Co-dominant Intermediate	15 10	20 15	Yes Yes	Heritage	Save Save	No No	0	1.75
397	Douglas-fir	12	Fair	Intermediate	8	10	Yes	TT '	Save	No	0	1
398 399	Douglas-fir Douglas-fir	23 13	Fair Fair	Co-dominant Intermediate	12 8	18 10	Yes Yes	Heritage	Save Save	No No	0	1.75
400 401	Douglas-fir Douglas-fir	15 19	Fair Fair	Intermediate Co-dominant	8 12	12 15	Yes Yes		Save Save	No No	0	1
402 403	Douglas-fir Douglas-fir	23 26	Fair Good	Co-dominant Co-dominant	15 16	18 20	Yes Yes	Heritage Heritage	Save Save	No No	0	1.75 1.75
404	Douglas-fir	25	Fair	Co-dominant	12	20	Yes	Heritage	Save	No	0	1.75
405 406	Douglas-fir Douglas-fir	26 12	Fair Fair	Co-dominant Intermediate	15 8	20 10	Yes Yes	Heritage	Save Save	No No	0	1.75
407 408	Cedar Douglas-fir	14 33	Fair Fair	Intermediate Dominant	14 20	14 25	Yes Yes	Landmark	Save Save	No No	0	1 2
409	Douglas-fir	36	Fair	Dominant	18	28	Yes	Landmark	Save	No	0	2
410 411	Douglas-fir Douglas-fir	20 22	Fair Good	Co-dominant Co-dominant	12 18	15 20	Yes Yes	Heritage	Save Save	No No	0	1 1.75
412 413	Douglas-fir Douglas-fir	23 8	Fair Fair	Co-dominant Suppressed	20 8	20 8	Yes Yes	Heritage	Save Save	No No	0	1.75
414 415	Maple	12 24	Fair Fair	Intermediate Co-dominant	18	15	Yes	TTi4	Save	No	0	1
416	Douglas-fir Douglas-fir	23	Fair	Co-dominant	18 18	20 20	Yes Yes	Heritage Heritage	Save Save	No No	0	1.75 1.75
417 418	Cedar Douglas-fir	20 26	Fair Good	Suppressed Dominant	15 20	15 20	Yes Yes	Heritage	Save Save	No No	0	1.75
419 420	Douglas-fir Douglas-fir	22 14	Fair Fair	Co-dominant Intermediate	18 10	18 10	Yes Yes	Heritage	Save Save	No No	0	1.75
421	Douglas-fir	9	Fair	Suppressed	8	8	Yes		Save	No	0	1
422 423	Douglas-fir Douglas-fir	20 22	Fair Good	Intermediate Co-dominant	12 15	15 16	Yes Yes	Heritage	Save Save	No No	0	1.75
424 425	Douglas-fir Cedar	9 22.9	Fair Good	Suppressed Intermediate	8 15	8 15	Yes Yes	Heritage	Save Save	No No	0	1 1.75
426	Douglas-fir	20, 10	Poor	Co-dominant			No		Save	No	0	0
427 428	Douglas-fir Douglas-fir	26 26	Good Good	Co-dominant Co-dominant	20 20	20 20	Yes Yes	Heritage Heritage	Save Save	No No	0	1.75 1.75
429 430	Douglas-fir Douglas-fir	13 11	Poor Fair	Intermediate Intermediate	10	10	No Yes		Save Save	No No	0	0
431 432	Douglas-fir Douglas-fir	23 20	Fair Fair	Co-dominant Co-dominant	16 15	18 15	Yes Yes	Heritage	Save Save	No No	0	1.75
433	Douglas-fir	25	Good	Dominant	20	20	Yes	Heritage	Save	No	0	1.75
434 435	Douglas-fir Douglas-fir	12 22	Fair Fair	Intermediate Co-dominant	10 15	10 16	Yes Yes	Heritage	Save Save	No No	0	1.75
436 437	Douglas-fir Maple	29 12	Fair Fair	Dominant Intermediate	15 20	25 15	Yes Yes	Heritage	Save Save	Yes Yes	0	0
438 439	Maple Maple	12 15	Fair Fair	Intermediate Co-dominant	20	15 15	Yes Yes		Save Save	Yes Yes	0	0
440	Maple	16	Fair	Co-dominant	25	18	Yes		Save	Yes	0	0
441 442	Maple Douglas-fir	13 11	Fair Fair	Intermediate Intermediate	18 12	15 10	Yes Yes		Save Remove	Yes Yes	0	0
443 444	Douglas-fir Lodgepole Pine	24 18	Fair Poor	Co-dominant Co-dominant	16	20	Yes No	Heritage	Remove Remove	Yes Yes	1	0
445	Douglas-fir	34	Good	Dominant	25	30	Yes	Heritage	Remove	Yes	2	0
446 447	Hemlock Douglas-fir	15 24	Good Good	Intermediate Dominant	20	15 20	Yes Yes	Heritage	Remove Remove	Yes Yes	2	0
448 449	Douglas-fir Douglas-fir	17 27	Good Fair	Co-dominant Co-dominant	16 20	15 22	Yes Yes	Heritage	Remove Remove	Yes Yes	1 2	0
450	Douglas-fir	23	Fair	Co-dominant	15	20	Yes	Heritage	Remove	Yes	2	0
451 452	Douglas-fir Douglas-fir	13 12	Fair Fair	Co-dominant Co-dominant	12 12	12 12	Yes Yes		Remove Remove	Yes Yes	1	0
453 454	Douglas-fir Douglas-fir	26 20	Fair Good	Co-dominant Co-dominant	20 15	20 15	Yes Yes	Heritage	Remove Remove	Yes Yes	1	0
455 456	Douglas-fir Douglas-fir	20 26	Good Good	Co-dominant Dominant	15 25	15 25	Yes Yes	Heritage	Remove Remove	Yes Yes	2	0
457	Douglas-fir	14	Good	Co-dominant	12	12	Yes	Tiernage	Remove	Yes	1	0
458 459	Douglas-fir Douglas-fir	20 18	Good Fair	Co-dominant Co-dominant	15 15	15 15	Yes Yes		Remove Remove	Yes Yes	1 1	0
460 461	Douglas-fir Douglas-fir	12 20	Fair Fair	Co-dominant Co-dominant	10 12	10 15	Yes Yes		Remove Remove	Yes Yes	1	0
462 463	Douglas-fir Douglas-fir	14 26	Fair Fair	Co-dominant Co-dominant	12 18	12 22	Yes Yes	Heritage	Remove Remove	Yes Yes	1 2	0
464	Douglas-fir	26	Fair	Co-dominant	20	22	Yes	Heritage	Remove	Yes	2	0
465 466	Douglas-fir Cedar	26 80	Good Fair	Co-dominant Dominant	22 25	22 30	Yes Yes	Heritage Landmark	Remove Remove	No No	3	0
467 468	Douglas-fir Douglas-fir	24 26	Fair Good	Co-dominant Dominant	20 20	20 20	Yes Yes	Heritage Heritage	Remove Remove	No No	2 2	0
469 470	Douglas-fir Cedar	26 42	Fair Fair	Co-dominant Co-dominant	20 22	20 30	Yes Yes	Heritage Landmark	Remove Remove	No No	3	0
471	Hemlock	25	Poor	Co-dominant			No	Poor Health	Remove	No	1	0
472 473	Cedar Cedar	44 10	Good Fair	Dominant Suppressed	22 12	30 10	Yes Yes	Landmark	Remove Remove	No No	3 1	0
474 475	Portuguese Douglas-fir	16 27	Poor - Fair	Intermediate Dominant	25	25	No Yes	Heritage	Remove Remove	No No	1 2	0
476	Unknown	15 14	Fair	Dominant	25 15	20 15	Yes Yes		Remove	No No	1	0
478 479	Douglas-fir Douglas-fir	15	Fair Good	Co-dominant Co-dominant	15	15	Yes		Remove Remove	No	1	0
480 481	Hemlock Douglas-fir	14 16	Good Good	Intermediate Co-dominant	15 15	15 15	Yes Yes		Remove Remove	No No	1 1	0
482 483	Douglas-fir Douglas-fir	25 26	Fair Fair	Co-dominant Co-dominant	16 22	20 20	Yes Yes	Heritage Heritage	Remove Remove	No No	2 2	0
484	Douglas-fir	27	Good	Co-dominant	16	20 22	Yes	Heritage	Remove	No	2	0
485 486	Hemlock Douglas-fir	32 33	Poor Poor	Dominant Dominant			No No	Poor Health Poor Health	Remove Remove	No No	1	0
487 488	Hemlock Douglas-fir	35 28	Poor Fair	Dominant Dominant	20	22	No Yes	Poor Health Heritage	Save Remove	Yes No	0 2	0
489	Red Alder	13	Poor	Co-dominant	20		No	- III II I	Remove	No	1	0
490 491	Red Alder Red Alder	13 12.16	Poor Poor	Co-dominant Co-dominant			No No		Remove Remove	No No	1	0
492 493	Red Alder Douglas-fir	14 30	Poor Poor	Co-dominant Co-dominant			No No	Poor Health	Remove Remove	No No	1	0
494 495	Douglas-fir Douglas-fir	26 32	Fair Fair	Co-dominant Dominant	20 25	20 25	Yes Yes	Heritage Landmark	Remove Remove	No No	2 3	0
496	Douglas-fir	30	Poor	Co-dominant			No	Poor Health	Remove	No	1	0
497	Maple	17	Fair	Intermediate	25	20	Yes		Remove	No	1	0

Tree #	Species	DBH (in)	Condition	Crown Position	Drip Line Radius	Root Protection	Healthy Tree	Heritage or Landmark	Planned Save/ Remove	In Tract D	t Tree Qty:	
498	Douglas-fir	40	Fair	Dominant	25	30	Yes	Heritage	Save	Yes	0	0
499	Maple	14	Fair	Intermediate	25	15	Yes		Remove	No	1	0
500	Douglas-fir	28	Poor	Dominant			No	Poor Health	Remove	No	1	0
501	Maple	30	Fair	Co-dominant	30	30	Yes	Heritage	Remove	No	2	0
502	Maple	26	Poor	Co-dominant			No	Poor Health	Remove	No	1	0
503	Maple	50	Poor	Co-dominant			No	Poor Health	Remove	No	1	0
504	Maple	13	Fair	Co-dominant	20	15	Yes		Remove	No	1	0
505	Maple	15	Fair	Co-dominant	25	15	Yes		Remove	No	1	0
506	Maple	14	Fair	Co-dominant	20	15	Yes		Remove	No	1	0
507	Maple	22	Fair	Dominant	30	25	Yes	Heritage	Remove	No	2	0
508	Cherry	14	Poor	Co-dominant			No	<u> </u>	Remove	No	1	0
509	Maple	16	Poor	Co-dominant			No		Remove	No	1	0
510	Maple	40.20	Very-Poor –	Dominant			No	Poor Health	Remove	No	1	0
511	Douglas-fir	11	Poor	Suppressed			No	T cor readir	Remove	No	1	0
512	Douglas-fir	11	Poor	Suppressed			No		Remove	No	1	0
513	Douglas-fir	21	Good	Dominant	20	20	Yes		Remove	No	1	0
514	Maple	13	Poor	Suppressed	20	20	No		Remove	No	1	0
515	Maple	23	Fair	Dominant	30	25	Yes	Heritage	Remove	No	2	0
516	Maple	14	Fair	Intermediate	20	15	Yes	Ticritage	Remove	No	1	0
	-			Co-dominant			Yes			Yes	-	
517	Maple Maple	20	Fair Fair		25 25	20 20	Yes		Remove	No Yes	1	0
518	Maple	21		Dominant Internadiate					Remove		1	_
519	Maple	14	Fair	Intermediate	25	15	Yes		Remove	Yes	1	0
520	Maple	12	Fair	Co-dominant	20	15	Yes		Remove	No	1	0
521	Maple	12	Fair	Co-dominant	20	15	Yes		Remove	No	1	0
522	Douglas-fir	16	Fair	Co-dominant	12	12	Yes		Remove	No	1	0
523	Maple	15	Fair	Co-dominant	20	15	Yes		Remove	No	1	0
524	Maple	26	Fair	Dominant	30	25	Yes	Heritage	Remove	No	2	0
525	Maple	13	Fair	Co-dominant	20	15	Yes		Remove	No	1	0
526	Maple	13	Fair	Co-dominant	20	15	Yes		Remove	No	1	0
527	Douglas-fir	32	Good	Dominant	30	30	Yes	Landmark	Remove	No	3	0
528	Douglas-fir	17	Fair	Co-dominant	15	15	Yes		Save	Yes	0	0
529	Douglas-fir	17	Fair	Co-dominant	15	15	Yes		Save	Yes	0	0
530	Douglas-fir	26	Fair	Co-dominant	20	20	Yes	Heritage	Save	Yes	0	0
531	Douglas-fir	27	Good	Co-dominant	22	22	Yes	Heritage	Save	Yes	0	0
532	Douglas-fir	20	Poor	Co-dominant			No		Save	Yes	0	0
533	Douglas-fir	22	Fair	Co-dominant	12	18	Yes	Heritage	Save	Yes	0	0
534	Douglas-fir	22	Fair	Co-dominant	12	18	Yes	Heritage	Save	Yes	0	0
535	Douglas-fir	25	Fair	Co-dominant	20	20	Yes	Heritage	Save	Yes	0	0
536	Douglas-fir	25	Fair	Co-dominant	20	20	Yes	Heritage	Remove	No	2	0
537	Cedar	8	Fair	Suppressed	8	8	Yes	Tiornage	Remove	No	1	0
538	Douglas-fir	16	Poor	Co-dominant	O	O	No		Remove	No	1	0
539	Douglas-fir	14	Fair	Co-dominant Co-dominant	12	12	Yes	1	Remove	No	1	0
540	Douglas-fir	22	Fair	Dominant	20	20	Yes	Heritage		No	2	0
	,								Remove			
541	Douglas-fir	28	Fair	Dominant	25	25	Yes	Heritage	Remove	No	2	0
542	Douglas-fir	24	Fair	Co-dominant	20	20	Yes	Heritage	Remove	No	2	0
543	Douglas-fir	18	Fair	Co-dominant	12	15	Yes	1	Remove	No	1	0
544	Douglas-fir	36	Fair	Dominant	25	25	Yes	Landmark	Remove	No	3	0
545	Maple	15	Fair	Intermediate	20	15	Yes		Remove	No	1	0
546	Douglas-fir	28	Good	Dominant	22	22	Yes	Heritage	Remove	No	2	0
547	Maple	15	Fair	Intermediate	20	15	Yes		Remove	No	1	0
548	Douglas-fir	30	Good	Dominant	25	25	Yes	Heritage	Remove	No	2	0
549	Maple	15.14	Fair	Co-dominant	25	20	Yes		Remove	No	1	0
550	Douglas-fir	8	Fair	Suppressed	10	10	Yes		Remove	No	1	0
551	Maple	28	Fair	Dominant	35	25	Yes	Heritage	Remove	No	2	0
553	Cedar	17	Fair	Intermediate	12	15	Yes		Remove	No	1	0
554	Maple	13	Fair	Intermediate	20	15	Yes		Remove	No	1	0
555	Douglas-fir	28	Fair	Co-dominant	20	22	Yes	Heritage	Remove	No	2	0
556	Douglas-fir	24	Fair	Co-dominant	16	20	Yes	Heritage	Remove	No	2	0
557	Douglas-fir	26	Fair	Co-dominant	16	20	Yes	Heritage	Remove	No	2	0
558	Douglas-fir	20	Fair	Co-dominant	15	15	Yes	-	Remove	No	1	0
559	Douglas-fir	25	Fair	Co-dominant	20	20	Yes	Heritage	Remove	No	2	0
560	Douglas-fir	24	Good	Co-dominant	20	20	Yes	Heritage	Remove	No	2	0
561	Douglas-fir	16	Fair	Co-dominant	15	15	Yes		Remove	No	1	0
562	Douglas-fir	12	Fair	Intermediate	10	10	Yes		Remove	No	1	0
563	Douglas-fir	10	Fair	Intermediate	8	8	Yes		Remove	No	1	0
564	Douglas-fir	24	Good	Co-dominant	20	20	Yes	Heritage	Remove	No	2	0
565	Douglas-fir	22	Fair	Co-dominant	15	18	Yes	Heritage	Remove	No	2	0
566	Douglas-fir	25	Fair	Co-dominant	20	20	Yes	Heritage	Remove	No	2	0
567	Maple	13	Poor	Suppressed	8	8	No	TIMILIARE	Remove	No	1	0
568	Douglas-fir	9	Poor	Suppressed	5	6	No		Remove	No	1	0
)	_						T 1 1				_
571	Cedar	66	Good	Dominant	16	17	Yes	Landmark	Save	Yes	0	0
572	Cedar	26	Fair	Codominant	11	11	Yes	Heritage	Save	Yes	0	0
573	Maple	44, 16	Poor – In	Codominant	23	23	No		Remove	Yes	1	0
פוט	wiapic	77, 10	Decline	Codoniniant	2.3	20.3	INO		Kollove	108	1	
574	Douglas-fir	51	Good	Dominant	24	24	Yes	Landmark	Save	Yes	0	0
575	Douglas-fir	38	Good	Codominant	17	17	Yes	Landmark	Save	Yes	0	0
								LIMITOTIALIA				_
576	Red Alder	18	Good	Intermediate	9	9	Yes		Save	Yes	0	0
577	Maple	6, 8	Fair	Intermediate	6	6	Yes			Yes	0	0
578	Douglas for	42	Poor – In	Dominant	21	21	No	Poor Health	Permorro	Yes	1	
J/8	Douglas-fir	42	Decline	Dominant		21	No		Remove	res	1	0
579	Douglas-fir	38	Fair	Dominant	18	18	Yes	Landmark		Yes	0	0
			Poor – Stem						F			
ایمر	Maple	10, 8, 7	Defect	Intermediate	10	10	No		Remove	Yes	1	0
580												
		2.5	Very Poor –	-				₅₀	* -			
580 581	Maple	38, 34	Very Poor – Mostly Dead	Dominant	22	22	No	Poor Health	Remove	No	1	0

APPROVA	L BLOCK
The owner is responsible for all errors or omissions. The City of Sammamish assumes no liability for errors	PLANNING DEPT. APPROVAL
or omissions. REVIEWED FOR CODE COMPLIANCE per 13.20 SMC, 14.01 SMC, and 16.15 SMC, subject to field inspection and correction.	BY: ABaty DATE: 08/16/2019
hstrasbourger08/09/2019 City of Sammamish Public Works Department	

UNDERGROUND UTILITY NOTE

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25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM

SCALE:
AS NOTED

PROJECT MANAGER:

BRETT K PUDISTS, PE
PROJECT ENGINEER:
BRETT K PUDISTS, PE

DESIGNER: AARON C LANCE ISSUE DATE: 8/5/2019

ND DATE BY REVISED PER CITY COMMENTS

2 7/26/19 ACL REVISED PER CITY COMMENTS, WAULT PLANS MODIFIED TO MATCH SIRUCTURAL

3 8/5/19 RAB REVISED PER CITY COMMENTS

CALCULATIONS

TER SE BTH SUBDIVISIONS

TOAD & STORM PLANS

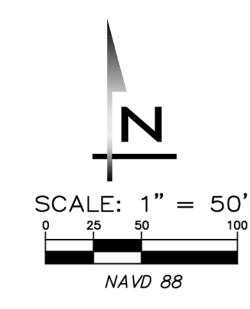
Amba LANDSCAPE ARCHIVE

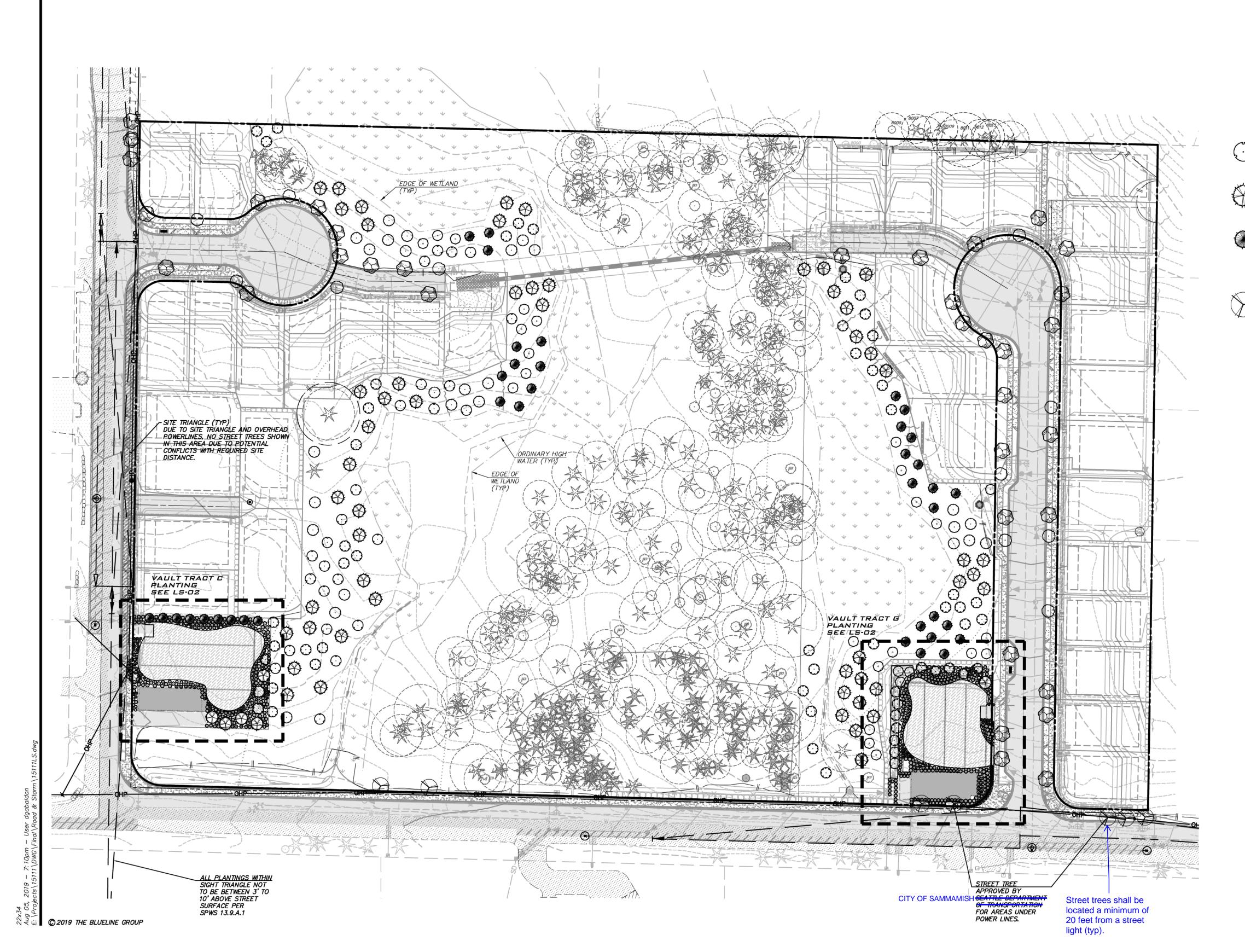
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JOB NUMBER: 1 **5 - 1 1 1**

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PLANT SCHEDULE

MITIGATION TREES	BOTANICAL NAME / COMMON NAME
\odot	Acer circinatum / Vine Maple
	Acer macrophyllum / Big Leaf Maple
(·)	Betula papyrifera / Paper Birch
	Pinus contorta / Shore Pine
	Thuja plicata / Western Red Cedar
	Tsuga heterophylla / Western Hemlock
STREET TREES	BOTANICAL NAME / COMMON NAME
	Acer platanoides 'Columnare' / Columnar Norway Maple
	Acer platanoides 'Warrenred' TM / Pacific Sunset Maple
\odot	Prunus serrulata 'Royal Burgundy' / Royal Burgundy Cherry
<u>SHRUBS</u>	BOTANICAL NAME / COMMON NAME
\oplus	Azalea Encore TM / Encore Azalea
\odot	Cornus sericea / Red Twig Dogwood
0	Euonymus alatus 'Compactus' / Compact Burning Bush
\bigcirc	Hemerocallis x 'Stella de Oro' / Stella de Oro Daylily
(+)	Pieris japonica 'Mountain Fire' / Mountain Fire Pieris
(1)	Rhododendron x 'Cunningham's Blush' / Cunningham's Blush Rhododendron
\otimes	Rhododendron x 'Ramapo' / Ramapo Rhododendron
\otimes	Rosa acicularis 'Knock Out' / Prickly Rose
GROUND COVERS	BOTANICAL NAME / COMMON NAME
	Cornus x unalaschkensis / Bunchberry Dogwood
	Dicentra formosa / Western Bleeding-Heart
	Turf Seed Drought Tolerant Dwarf Fescue Blend

CITY OF SA	MMAMISH
APPROVA	L BLOCK
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hstrasbourger08/09/2019 City of Sammamish Public Works Department	

ROW2019-03272

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SCALE: AS NOTED

PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER: BRETT K PUDISTS, PE

DESIGNER: AARON C LANCE

ISSUE DATE:

•	8/5/2	2019					
	REVISIONS	REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS, VAULT PLANS MODIFIED TO MATCH STRUCTURAL	REVISED PER CITY COMMENTS			
	ВУ	RAB	ACL	RAB			
	DATE	5/10/19	7/26/19	8/5/19			
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RRIER SE BTH SUBDIVISION ROAD & STORM PLANS

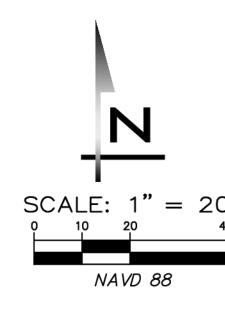
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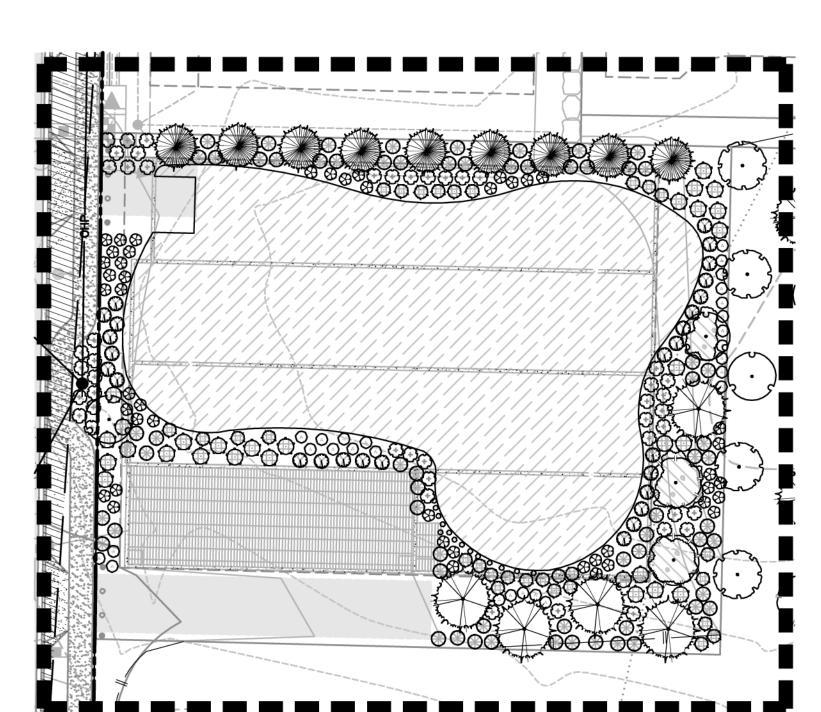
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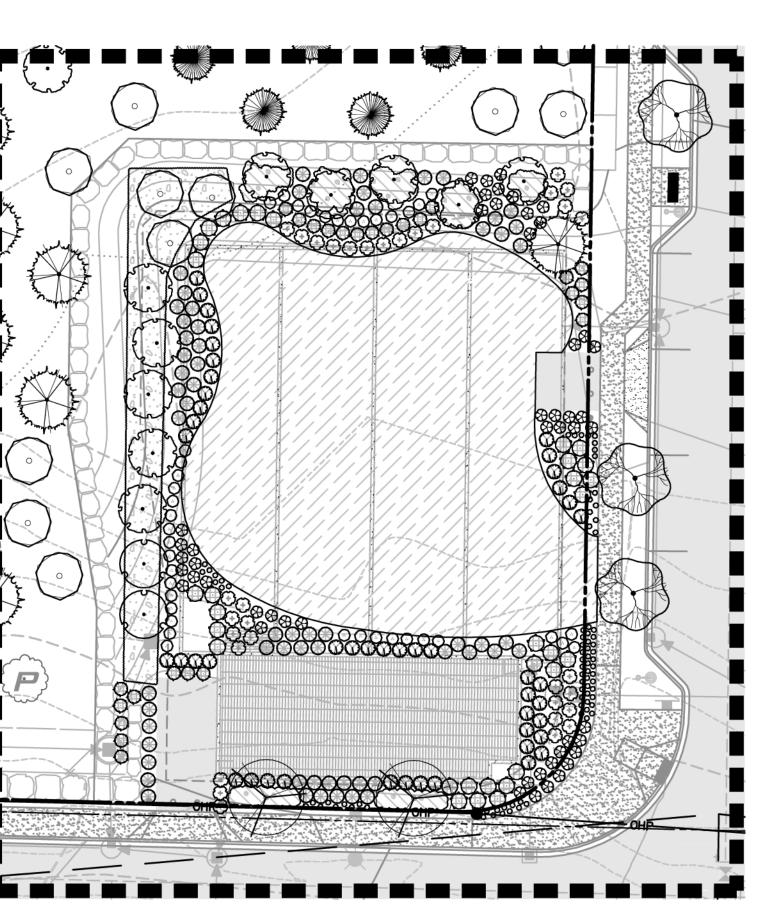
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VAULT TRACT C PLANTING



VAULT TRACT G PLANTING

PLANT SCHEDULE

MITIGATION TREES	BOTANICAL NAME / COMMON NAME
\odot	Acer circinatum / Vine Maple
\odot	Acer macrophyllum / Big Leaf Maple
	Betula papyrifera / Paper Birch
	Pinus contorta / Shore Pine
	Thuja plicata / Western Red Cedar
	Tsuga heterophylla / Western Hemlock
STREET TREES	BOTANICAL NAME / COMMON NAME
	Acer platanoides 'Columnare' / Columnar Norway Maple
	Acer platanoides 'Warrenred' TM / Pacific Sunset Maple
$\overline{\odot}$	Prunus serrulata 'Royal Burgundy' / Royal Burgundy Cherry
<u>SHRUBS</u>	BOTANICAL NAME / COMMON NAME
(Azalea Encore TM / Encore Azalea
②	Cornus sericea / Red Twig Dogwood
©	Euonymus alatus 'Compactus' / Compact Burning Bush
0	Hemerocallis x 'Stella de Oro' / Stella de Oro Daylily
(+)	Pieris japonica 'Mountain Fire' / Mountain Fire Pieris
(1)	Rhododendron x 'Cunningham's Blush' / Cunningham's Blush Rhododendron
\otimes	Rhododendron x 'Ramapo' / Ramapo Rhododendron
\odot	Rosa acicularis 'Knock Out' / Prickly Rose
GROUND COVERS	BOTANICAL NAME / COMMON NAME
0 0.	Cornus x unalaschkensis / Bunchberry Dogwood
	Dicentra formosa / Western Bleeding-Heart
7.77	

Turf Seed Drought Tolerant Dwarf Fescue Blend

CITY OF SAMMAMISH

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REVIEWED FOR CODE COMPLIANCE per 13.20 SMC, 14.01 SMC, and 16.15 SMC, subject to field inspection and correction.

hstrasbourger08/09/2019

PLANNING DEPT. APPROVAL
BY: ABaty
DATE: 08/16/2019

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BLUELINE
25 CENTRAL WAY, SHITE 400

25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM

SCALE: AS NOTED

PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER: BRETT K PUDISTS, PE

DESIGNER: AARON C LANCE

ISSUE DATE: 8/5/2019

ND DATE BY REVISED PER CITY COMMENTS

2 7/26/19 ACL REVISED PER CITY COMMENTS, VAULT PLANS MODIFIED TO MATCH STRUCTURAL

3 8/5/19 RAB REVISED PER CITY COMMENTS

ARRIER SE BTH SUBDIVISION ROAD & STORM PLANS

April LANDSCAPE ARCHITECTURE AND LANDSCAPE

5/29/19

JOB NUMBER: 1 **5-1 1 1**

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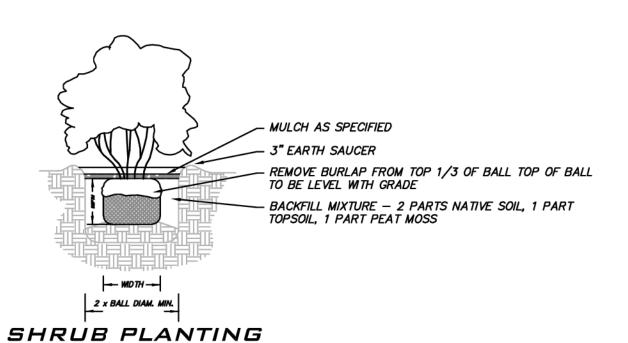
SHEET NAME:

CONIFER PLANTING AND STAKING NOT TO SCALE NOTES: 1) SEE CHART FOR MINIMUM ROOTBALL DIAMETER 2) THE DEPTH OF THE ROOTBALL SHALL BE NO LESS THAN 60% ITS WIDTH. NOTES: 1) SEE CHART FOR MINIMUM ROOTBALL DIAMETER 2) THE DEPTH OF THE ROOTBALL SHALL BE NO LESS THAN 60% ITS WIDTH.

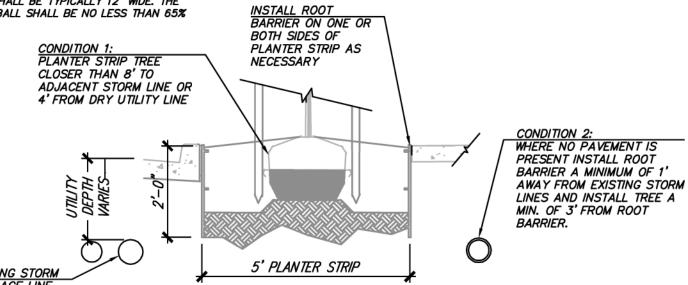
PLANT SCHEDULE

NOT TO SCALE

MITIGATION TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL		QTY
\odot	Acer circinatum / Vine Maple	B & B	2 1/2" CAL.		26
(\cdot)	Acer macrophyllum / Big Leaf Maple	В & В	2 1/2" CAL.		29
(·)	Betula papyrifera / Paper Birch	В & В	2 1/2" CAL.		51
	Pinus contorta / Shore Pine	В & В	8' MIN. HT.		59
\bigcirc	Thuja plicata / Western Red Cedar	В & В	8' MIN. HT.		28
	Tsuga heterophylla / Western Hemlock	B & B	8' MIN. HT.		38
STREET TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL		QTY
	Acer platanoides 'Columnare' / Columnar Norway Maple	В & В	2 1/2" CAL.		36
	Acer platanoides 'Warrenred' TM / Pacific Sunset Maple	В & В	1.5 " Cal		7
$\overline{}$	Prunus serrulata 'Royal Burgundy' / Royal Burgundy Cherry	В & В	2 1/2" CAL.		12
SHRUBS.	BOTANICAL NAME / COMMON NAME	SIZE	FIELD2		QTY
(Azalea Encore TM / Encore Azalea	5 gal	24" Min Ht.		55
()	Cornus sericea / Red Twig Dogwood	5 gal	24" Min Ht.		67
©	Euonymus alatus 'Compactus' / Compact Burning Bush	5 gal	24" Min Ht.		74
<u> </u>	Hemerocallis x 'Stella de Oro' / Stella de Oro Daylily	1 gal			94
(Pieris japonica 'Mountain Fire' / Mountain Fire Pieris	5 gal	36" Min Ht.		79
	Rhododendron x 'Cunningham's Blush' / Cunningham's Blush Rhododendron	36" min.			61
\otimes	Rhododendron x 'Ramapo' / Ramapo Rhododendron	3 gal	18"		96
\odot	Rosa acicularis 'Knock Out' / Prickly Rose	5 gal	24" Min Ht.		126
GROUND COVERS	BOTANICAL NAME / COMMON NAME	CONT	FIELD2	SPACING	QTY
,	Cornus x unalaschkensis / Bunchberry Dogwood	4"pot		24" o.c.	987 sf
	Dicentra formosa / Western Bleeding-Heart	4*pot		24" o.c.	622 sf
777	Turf Seed Drought Tolerant Dwarf Fescue Blend	sod			12,577 sf



NOTE: SHRUB ROOTBALLS SHALL BE TYPICALLY 12" WIDE. THE DEPTH OF THE ROOTBALL SHALL BE NO LESS THAN 65%



- 1. ROOT BARRIER TO BE NDS, MODEL RP-2450, OR APPROVED EQUIVALENT
- 2. INSTALL PRODUCT PER MANUFACTURER'S SPECIFICATIONS.
- 3. INSTALL PRODUCT A MINIMUM OF 3' BEYOND CENTER OF TREE IN EACH DIRECTION PARALLEL TO UTILITY LINE.
- 4. ALL TREES LOCATED WITHIN PLANTER STRIPS TO RECEIVE ROOT BARRIER.

ROOT BARRIER

NOT TO SCALE

LANDSCAPE NOTES:

- 1. IN THE EVENT THAT ANY DISCREPANCIES BETWEEN THE QUANTITIES OF PLANTS INDICATED ON THE PLANT SCHEDULE AND THOSE INDICATED ON THE PLAN. THE QUANTITIES INDICATED ON THE PLAN
- 2. NO SUBSTITUTIONS SHALL BE ACCEPTED, EXCEPT WITH THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT OR HIS AGENT.
- 3. THE LANDSCAPE ARCHITECT OR HIS AGENT SHALL BE THE SOLE JUDGE OF THE QUALITY AND ACCEPTABILITY OF THE MATERIALS. ALL REJECTED MATERIALS SHALL BE IMMEDIATELY REPLACED WITH ACCEPTABLE MATERIAL AT NO ADDITIONAL COST.
- 4. ALL PLANT BEDS SHALL BE MULCHED WITH A MINIMUM OF 3" SHREDDED BARK MULCH OR OTHER MATERIAL APPROVED BY THE LANDSCAPE ARCHITECT. ALL PROPOSED PLANT MATERIAL SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM DATE OF ACCEPTANCE AND SHALL BE IN HEALTHY AND VIGOROUS CONDITION. ANY PLANT MATERIAL WHICH DIES WITHIN THAT PERIOD SHALL BE REPLACED WITH THE SAME SIZE AND SPECIES OF PLANT MATERIAL.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT.
- 6. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE FROM
- 7. THE CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITION CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL.
- 8. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH "AMERICAN STANDARDS FOR NURSERY STOCK" ANSI 260 (MOST RECENT EDITION) AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
- 9. B & B PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE ROOT BALL ONLY. PLANTS WITH BROKEN, SPLIT OR DAMAGED ROOT BALLS SHALL BE REJECTED.
- 10. TREES SHALL BE LOCATED IN A MANNER WHICH WILL NOT OBSTRUCT ACCESS TO FIRE HYDRANT OR VISIBILITY OF STREET OR TRAFFIC SIGNS. NO TREES OR SHRUBS SHALL BE PLANTED IN A SIGHT TRIANGLE. NO TREES SHALL BE PLANTED IN ANY UTILITY OR MUNICIPAL EASEMENTS.
- 11. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITION ARE SUITABLE. SPRING PLANTING SEASON SHALL BE: MARCH 1ST TO JUNE 1ST. FALL PLANTING SEASON SHALL BE: AUGUST 15TH TO DECEMBER 15TH FOR EVERGREEN PLANTS AND SEPTEMBER 15TH TO DECEMBER 15TH, FOR DECIDUOUS
- 12. SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH LEVEL THAT, AFTER SETTLEMENT, A NORMAL OR NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE PLANTS IN THE CENTER OF THE PLANTING PIT.
- 13. TREES SHALL BE SUPPORTED IMMEDIATELY AFTER PLANTING IN ACCORDANCE WITH THE PLANTING DETAILS.
- 14. THE LOCATION OF ALL PLANT MATERIAL IS DIAGRAMMATIC. FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE DETERMINED IN THE FIELD UNDER THE DIRECTION OF THE LANDSCAPE ARCHITECT OR HIS AGENT.
- 15. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING UPON THE PERFORMANCE
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL FOR UTILITY LOCATIONS, IF NECESSARY.
- 17. AMENDED SOIL IS REQUIRED IN ALL LANDSCAPED AREAS (OTHER THAN BIORETENTION AREAS). SOIL MUST MEET WA STATE DEPARTMENT OF ECOLOGY BMP T5.13.



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

WWW.THEBLUELINEGROUP.COM SCALE:

AS NOTED PROJECT MANAGER: BRETT K PUDISTS, PE

PROJECT ENGINEER:

BRETT K PUDISTS, PE

DESIGNER:

AARON C LANCE ISSUE DATE: 8/5/2019

	REVISIONS	REVISED PER CITY COMMENTS	REVISED PER CITY COMMENTS, VAULT PLANS MODIFIED TO MATCH STRUCTURAL	REVISED PER CITY COMMENTS			
	BY	RAB	ACL	RAB			
	DATE	5/10/19	2/26/19	8/2/19			
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SHEET NAME:

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CITY OF SAMMAMISH APPROVAL BLOCK

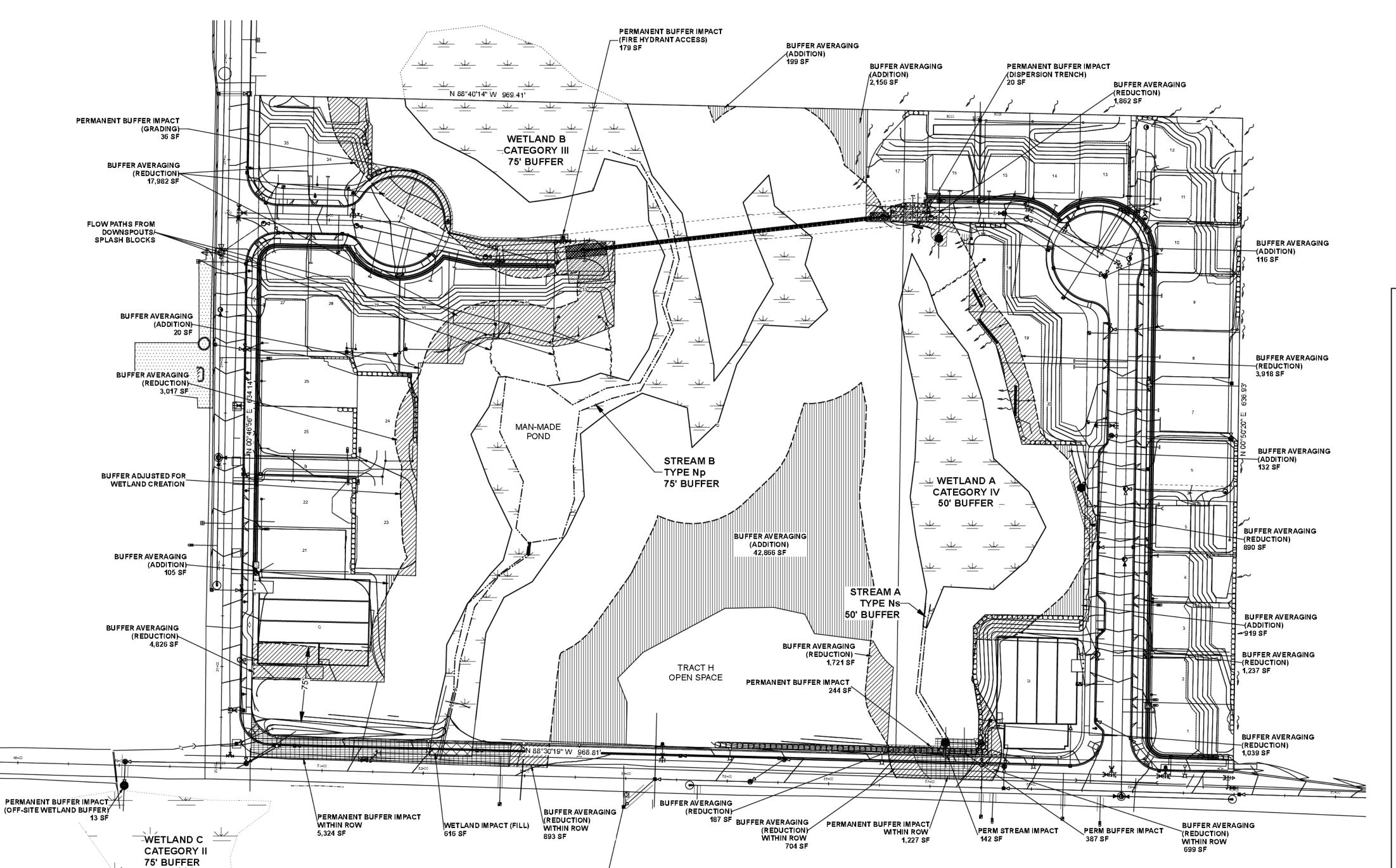
UNDERGROUND UTILITY NOTE

ROW2019-03272

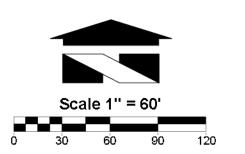
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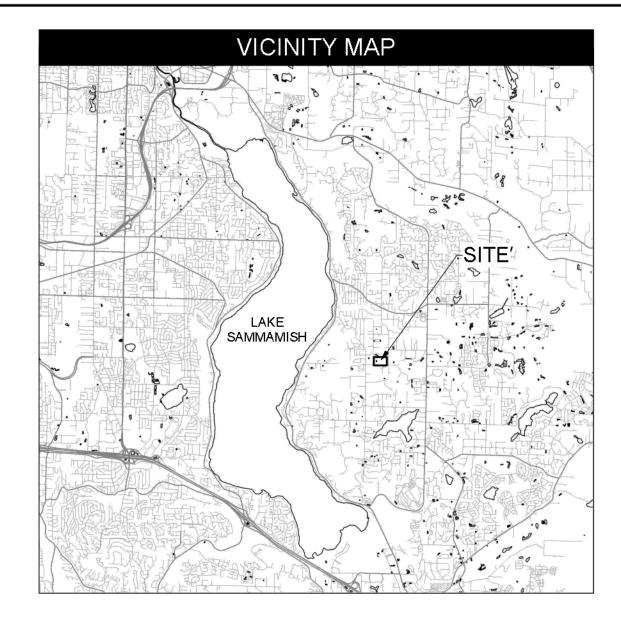
BUFFER AVERAGING AND PERMANENT IMPACTS



	LEGEND
	WETLAND
	STREAM OHWM
	STANDARD BUFFER
	CLEARING LIMITS
	BUFFER AVERAGING REDUCTION
	PERMANENT BUFFER IMPACT
	BUFFER AVERAGING ADDITION
	PERMANENT WETLAND IMPACT - FILL
	PERMANENT STREAM IMPACT



BUFFER AVERAGING/IMPACTS SUMMARY:	
BUFFER AVERAGING REDUCTION:	38,995 SF
PERMANENT BUFFER IMPACT:	7,410 SF
TOTAL BUFFER REDUCTION/IMPACT:	46,405 SF
BUFFER ADDITION:	46,513 SF



Introduction

The subject property (King County Parcel No. 1240700086 and 1240700035) is located northeast of the intersection of SE 8th Street and 214th Avenue SE in the city of Sammamish, Washington. The site is 14.138 acres in size. The Public Land Survey System identifies the site as a portion of Section 33, Township 25N, Range 6E, W.M. Mitigation for unavoidable wetland, stream, and buffer impacts was required by the City of Sammamish as part of the permitting process.

Project Description

The applicant is proposing to build 35 single-family homes on the site. Twenty homes with an associated access road and stormwater management system are to be located along the eastern property boundary. Fifteen homes with an access road, and a stormwater management system will be located along the western property boundary. A utility easement will cross the northern portion of the site connecting the two development areas. The water and sewer lines will be installed in the utility easement via directional boring to avoid impacts to wetlands, streams, and buffers. The project will require permanent wetland impacts, permanent and temporary buffer impacts, buffer averaging, and a stream relocation plan.

To achieve the development goals, the applicant is proposing the following:

- Buffer average 38,995 square feet of buffer on Wetland A/Stream A and Wetland B/Stream B to accommodate the lot configuration;
- Permanently impact 616 square feet of Wetland B within the right-of-way of SE 8th St. for city-required frontage improvements;
- Relocate 163 linear feet of Stream B for city-required frontage improvements;
- Permanently impact 5,324 square feet of buffer on Wetland B/Stream B for city-required frontage improvements;
- Permanently impact 142 square feet of Stream A for city-required frontage improvements;
- Permanently impact 1,858 square feet of buffer on Stream A for city-required frontage improvements;
- \bullet Temporarily impact 357 square feet of buffer on Stream A for city required frontage improvements
- Temporarily impact approximately 4,335 square feet of buffer on Stream B for stream relocation;
- Permanently impact 215 square feet of buffer on Wetland B/Stream B for fire hydrant access and grading;
- Temporarily impact approximately 678 square feet of buffer on Wetland A/Wetland B/Stream B for grading within and adjacent to the utility corridor;
- Temporarily impact approximately 2,300 square feet of buffer on Wetland B for wetland creation for mitigation;

• Permanently impact 13 square feet of buffer on Wetlanc C for a new catch basin south of

• Temporarily impact approximately 99 square feet of buffer on Wetland C for installation

Tree Replacement in Buffers

of the new catch basin.

The applicant proposes to provide tree replacement in the critical area buffers, which in some portions of the site are severely degraded. Buffers in the eastern portion of the site consist of pasture and currently have a very low level of buffer function. Buffers in the western portion of the site consist of a mix of native and non-native shrubs with a few trees. Within the critical area buffers on the site, a total of 41 trees that are in poor health have been identified. These trees will be evaluated by an arborist to determine whether they can remain without becoming a hazard. Those that are hazardous will be either cut to a safe height and snagged or cut and left in the critical area tract (Tract D) for habitat. Replacement for cut trees will be at a 1:1 ratio and replacement trees will be located in Tract D near the location of the cut tree or as otherwise approved by the arborist. A total of 9 trees that are located near the outer edge of the buffers may be impacted. These trees will be evaluated by the arborist during construction to determine whether or not they can survive and remain without becoming a hazard. If not, they will be cut to a safe height and snagged or cut and left in Tract D for habitat. Stumps of any cut trees are to be left in place and care taken to prevent disturbance to adjacent trees to remain. The 9 trees that have identified as potentially impacted have been counted as removed in tree retention and replanting calculations. In total, 197 native trees will be planted in the on-site buffers. These trees will significantly enhance water quality, hydrologic, and wildlife habitat functions of the on-site buffers, improving protection of the wetlands and streams.

WKI PKOJECT #15052

Drawn by: J. Goodman

Revision I: May 10, 2019

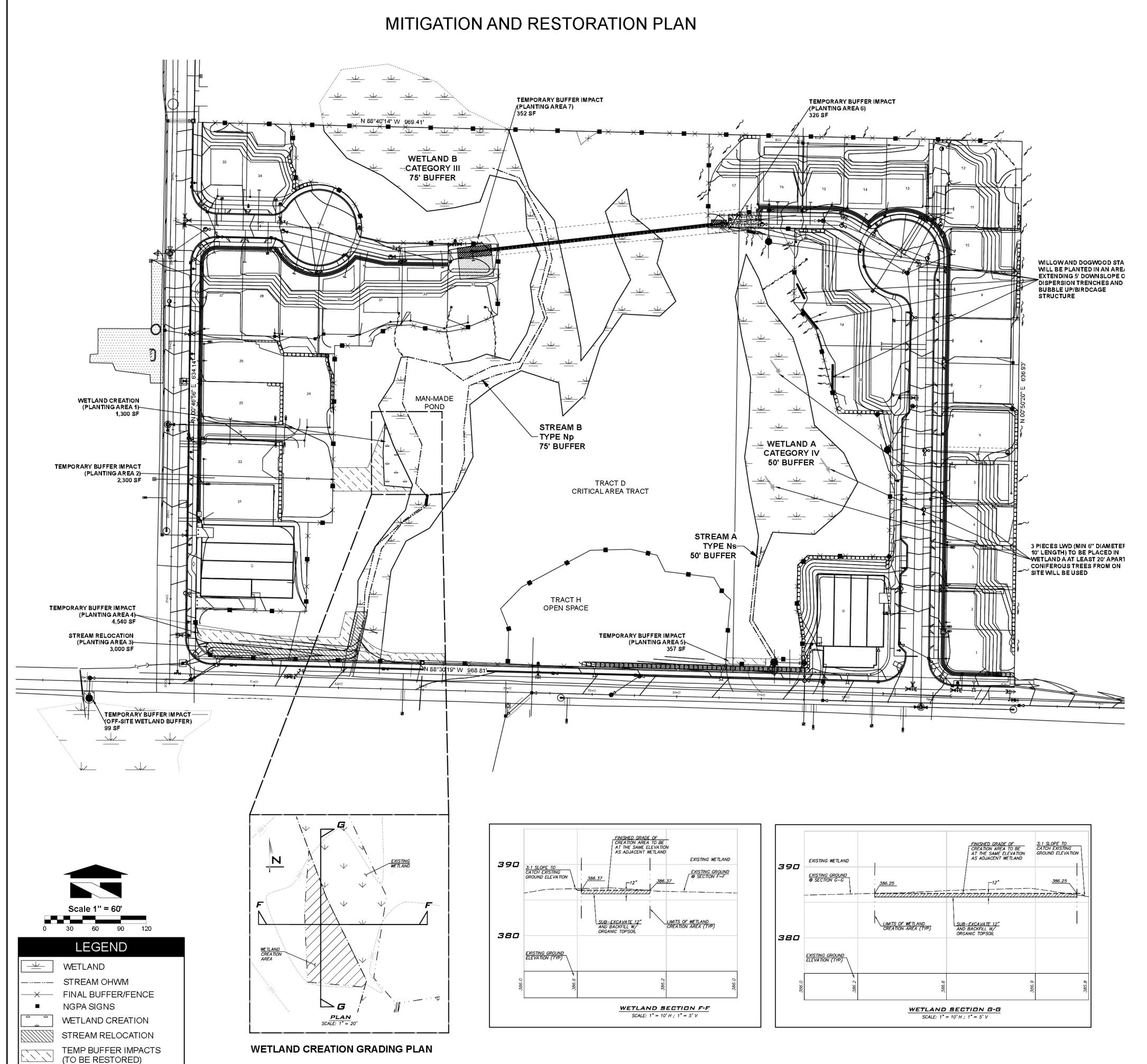
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Kirkland, WA 98033

FINAL MITIGATION PLAN **CARRIER**SAMMAMISH, WASHINGTON

PLANNING DEPT. APPROVAL BY: ABaty DATE: 08/16/2019

SHEET W1



Mitigation Plan

Stormwater Dispersion Features

Live willow (Salix sitchensis) and dogwood (Cornus sericea) stakes will be planted in areas within 5 feet downslope of dispersion trenches and bubble up/birdcage structures. Stakes should be installed per the specifications in the planting notes on Sheet W3 at a spacing of 2' on center.

Wetland Creation - Area 1

With a small to mid-sized excavator, the wetland creation area will be sub-excavated to one foot (12") below the existing grade of the adjacent wetland. The wetland creation area and side slopes will be graded to a 3:1 maximum slope. Topsoil with a minimum of 30 percent organic content will be backfilled into the excavated wetland creation area so that the final elevation will match that of the adjacent existing wetland. The area will be planted with the native species below. The area will also be overseeded with the Wetland/Stream Seed Mix specified on sheet W3.

Wetland Creation	- Planting Area	1 (1,300 S F)		
Common Name	Latin Name	Size	Spacing	Quantity

ı	Common Name	Latin Name	Size	Spacing	<u>Quani</u>
	Sitka spruce	Picea sitchensis	2 gallon	9,	8
	Western red cedar	Thuja plicata	2 gallon	9,	8
	Pacific willow	Salix lucida	1 gallon	6'	7
	Sitka willow	Salix sitchensis	1 gallon	6'	7
	Salmonberry	Rubus spectabilis	1 gallon	6'	7
	Black twinberry	Lonicera involucrata	$1~{ m gallon}$	6'	7
	Swamp rose	Rosa pisocarpa	1 gallon	6'	7
	Slough sedge	Carex obnupta	plugs	1,	325
	Western mannagrass	Glyceria elata	plugs	1,	325
	Small-fruited bulrush	Scirpus microcarpus	plugs	1,	325
	Slender rush	Juncus tenuis	plugs	1,	325

Wetland B Buffer Restoration - Area 2

Buffer vegetation that is temporarily disturbed during work for the wetland creation area will be restored with the following species. The area currently consists of native trees and shrubs. Plant quantities may be adjusted as needed to achieve the specified plant spacing in the area of temporary disturbance. The area will be overseeded with the Buffer Grass Seed Mix specified on sheet W3.

Wetland B Buffer Restoration - Planting Area 2 (Approx. 2,300 SF)

Common Name	<u>Latin Name</u>	Size	Spacing	Quantity
Western red cedar	Thuja plicata	2 gallon	9,	10
Douglas fir	Pseudotsuga menziesii	2 gallon	9,	9
Big leaf maple	Acer macrophyllum	2 gallon	9,	9
Salmonberry	Rubus spectabilis	1 gallon	6'	9
Vine maple	Acer circinatum	1 gallon	6'	9
Snowberry	Symphoricarpos albus	1 gallon	6'	9
Western hazelnut	Corylus cornuta	1 gallon	6'	9
Oregon grape	Mahonia nervosa	1 gallon	6'	9
Indian plum	Oemleria cerasiformis	1 gallon	6'	9
Salal	Gaultheria shallon	1 gallon	4'	48
Western swordfern	Polystichum munitum	1 gallon	4'	48
Fringecup	Tellima grandiflora	1 gallon	4'	48

Stream B - Area 3

The new stream channel area will total 3,000 square feet in size. Following the stream relocation work, the bottom of the new channel and lower side slopes (approximately 750 square feet) will be seeded with the native Wetland/Stream Seed Mix specified on sheet W3 from a distance of 1.25 feet north of the stream center line to 2.25 feet south of the center line (based on 6 inches expected maximum water depth in the channel). The upper side slopes will be approximately 2,250 square feet in size. The following plants are to be planted along the upper side slopes.

CENTER LINE 9' 1.25' PLANTS PLANTS PLANTS

Stream B Relocation/Restoration - Planting Area 3 (2,250 SF)

Common Name	Latin Name	Size	Spacing	Quantity
Salmonberry	Rubus spectabilis	1 gallon	6,	16
Red-osier dogwood	Cornus sericea	1 gallon	6'	16
Swamp rose	Rosa pisocarpa	1 gallon	6'	16
Black twinberry	Lonicera involucrata	1 gallon	6'	16
Lady fern	Athyrium filix-femina	1 gallon	4'	70
Slough sedge	Carex obnupta	1 gallon	4'	70

Stream B Buffer Restoration/Enhancement - Area 4

In order to gain access to the stream relocation area, adjacent buffer areas will be temporarily disturbed. Vegetation in these areas currently consists of a mix of native and non-native shrubs. Temporarily disturbed vegetation will be restored with the following native trees and shrubs. Plant quantities may be adjusted as needed to achieve the specified plant densities. The area will be overseeded with the Buffer Grass Seed Mix specified on sheet W3.

Stream B Buffer Restoration Area 4 (Approx. 4,540 SF)

Common Name	Latin Name	Size	Spacing	Quantity
Western red cedar	Thuja plicata	2 gallon	9,	20
Douglas fir	Pseudotsuga menziesii	2 gallon	9,	18
Big leaf maple	Acer macrophyllum	2 gallon	9,	18
Salmonberry	Rubus spectabilis	1 gallon	6'	13
Vine maple	Acer circinatum	1 gallon	6,	13
Snowberry	Symphoricarpos albus	1 gallon	6'	13
Western hazelnut	Corvius cornuta	1 gallon	6'	13
Oregon grape	Mahonia nervosa	1 gallon	6,	13
Indian plum	Oemleria cerasiformis	1 gallon	6*	13
Salal	Gaultheria shallon	1 gallon	4,	90
Western swordfern	Polystichum munitum	1 gallon	4,	90
Fringecup	Tellima grandiflora	1 gallon	4*	90

Stream A Buffer Restoration - Area 5

Temporary disturbance of approximately 357 square feet of buffer associated with Stream A will occur for the installation of a retaining wall and catch basin. Willow whips will be planted around the catch basin and the remaining area will be planted with the native species listed below. See Planting Notes on sheet W3 for live stake installation instructions. The area currently consists of a mix of native and non-native shrubs. Plant quantities may be adjusted as needed to achieve the plant densities specified. The area will be overseeded with the Buffer Grass Seed Mix specified on sheet W3.

Stream A Buffer Restoration - Planting Area 5 (Approx. 357 SF)

Common Name	Latin Name	Size	Spacing	Quantity
Scouler's willow	Salix scouleriana	1 gallon	2,	10
Salmonberry	Rubus spectabilis	$1~{ m gallon}$	6'	2
Vine maple	Acer circinatum	$1~{ m gallon}$	6'	2
Snowberry	Symphoricarpos albus	$1 \mathrm{gallon}$	6'	2
Indian plum	Oemleria cerasiformis	1 gallon	6'	2
Salal	Gaultheria shallon	$1~{ m gallon}$	4'	7
Western swordfern	Polystichum munitum	1 gallon	4'	7
Fringecup	Tellima grandiflora	1 gallon	4*	7

Drawn by: J. Goodman

Revision 1: May 10, 2019

PVENUMA RESOURCE 9505 19TH AVE SE, SUITE 10 EVERETT, WA 98208 TEL: 425.337.3045 FAX: 425.337.3045

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FINAL MITIGATION PLAN **CARRIER**SAMMAMISH, WASHINGTON

PLANNING DEPT. APPROVAL BY: ABaty DATE: 08/16/2019

SHEET W2

Wetland A Buffer Restoration - Planting Area 6 (Approx. 326 SF)

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Common Name	Latin Name	Size	Spacing	Quant
Salmonberry	Rubus spectabilis	1 gallon	6,	3
Vine maple	Acer circinatum	1 gallon	6'	2
Snowberry	Symphoricarpos albus	1 gallon	6'	2
Indian plum	Oemleria cerasiformis	1 gallon	6'	2
Salal	Gaultheria shallon	1 gallon	4'	8
Western swordfern	Polystichum munitum	1 gallon	4*	6
Fringecup	Tellima grandiflora	1 gallon	4*	6

Wetland B Buffer Restoration - Planting Area 7 (Approx. 352 SF)

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Common Name	Latin Name	Size	Spacing	Quant
Salmonberry	Rubus spectabilis	1 gallon	6,	3
Vine maple	Acer circinatum	$1 \mathrm{gallon}$	6'	3
Snowberry	Symphoricarpos albus	1 gallon	6'	2
Indian plum	Oemleria cerasiformis	1 gallon	6'	2
Salal	Gaultheria shallon	$1 \mathrm{gallon}$	4*	8
Western swordfern	Polystichum munitum	1 gallon	4'	7
Fringecup	Tellima grandiflora	1 gallon	4*	7

Wetland/Stream Seed Mix

ı	CONTINUED IN TABILITIE	TOST CHANGE TAISTING	TIMES & TEMMAN COT.
	Western mannagrass	Glyceria occidentalis	0.2
I	Slough sedge	Carex obnupta	0.3
I	Small-fruited bulrush	Scirpus microcarpus	0.3
ı	Slender rush	Juncus tenuis	0.1
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ı	I		

Buffer Grass Seed Mix

TO SECURE AND TO SECURE TAXABLE		
Common Name	Latin Name	lbs./1,000 S
Tall fescue	Festuca arundinacea	0.4
Colonial bentgrass	Agmstis tenuis	0.4
Annual ryegrass	Lolium multiflorum	0.5
Red clover	Trifolium repens	0.2
	•	

Wetland A Enhancement

To compensate for 142 square feet of unavoidable impact to Stream A, 3 pieces of large woody debris to serve as wildlife habitat features will be placed in Wetland A. The pieces shall be a minimum of 6 inches in diameter and 10 feet long. Coniferous trees that are to be removed onsite during construction will be the source for the material and the pieces shall be placed in Wetland A at least 20 feet apart.

Project Notes

Pre-Construction Meeting Mitigation projects are typically more complex to install than to describe in plans. Careful monitoring by a wetland professional for all portions of this project is strongly recommended. Construction timing and sequencing is important to the success of this type of project. There will be a pre-construction meeting on this site between the Permittee, the consulting wetland professional, and laborers. The objective will be to verify the location of erosion control facilities, verify the location of mitigation areas, and to discuss project sequencing.

A wetland professional shall be contracted to periodically inspect the mitigation installation described in this plan. Minor adjustments to the original design may be necessary prior to and during construction due to unusual or hidden site conditions. A City of Sammamish representative and/or the consulting professional will make these decisions during construction.

||Clearing/Grading, Timing, & TESC

Construction activities within wetland and stream areas shall be done during the dry season, from approximately June to late September.

Prior to beginning any development or mitigation activities, construction or siltation fencing shall be installed as described in the grading plan construction drawings.

All sedimentation control facilities shall be kept in place and functioning until vegetation is firmly established. Refer to site engineer's TESC plan for all erosion and sedimentation

Planting Notes

Plant in the early spring or late fall and obtain all plants from a reputable nursery. Care and handling of all plant materials is extremely important to the overall success of the project. The origin of all plant materials specified in this plan shall be native plants, nursery grown in the Puget Sound region of Washington. Some limited species substitution may be allowed, only with the agreement of the landscape designer, wetland biologist, and/or City staff.

Pre-Planting Meeting

Prior to control of invasive species or installation of mitigation plantings, a site meeting between the contracted landscaper and the consulting wetland professional shall occur to resolve any questions that may arise. During this meeting a discussion regarding plant spacing and locations of plant species including wetland verses buffer species shall occur between the landscape contractor and the consulting wetland professional.

Plants shall be handled so as to avoid all damage, including: breaking, bruising, root damage, sunburn, drying, freezing or other injury. Plants must be covered during transport. Plants shall not be bound with wire or rope in a manner that could damage branches. Protect plant roots with shade and wet soil in the time period between delivery and installation. Do not lift container stock by trunks, stems, or tops. Do not remove from containers until ready to plant. Water all plants as necessary to keep moisture levels appropriate to the species horticultural requirements. Plants shall not be allowed to dry out. All plants shall be watered thoroughly immediately upon installation. Soak all containerized plants thoroughly prior to installation. Bare root plants are subject to the following special requirements, and shall not be used unless planted between November 1 and March 1, and only with the permission of the landscape designer, wetland professional, and City staff. Bare root plants must have enough fibrous root to ensure plant survival. Roots must be covered at all times with: mud and/or wet straw, moss, or other suitable packing material until time of installation. Plants whose roots have dried out from exposure will not be accepted at installation inspection.

Plants stored by the Permittee for longer than one month prior to planting shall be planted in nursery rows and treated in a manner suitable to those species' horticultural requirements. Plants must be re-inspected by the wetland biologist and/or landscape designer prior to installation.

Damaged plants

Damaged, dried out, or otherwise mishandled plants will be rejected at installation inspection. All rejected plants shall be immediately removed from the site.

Plants shall be normal in pattern of growth, healthy, well-branched, vigorous, with well-developed and during the monitoring period. root systems, andfree of pests and diseases. Damaged, diseased, pest-infested, scraped, bruised, dried out, burned, broken, or defective plants will be rejected. Plants with pruning wounds over 1" in | diameter will be rejected.

All plants shall be balled and burlapped or containerized, unless explicitly authorized by the landscape designer and/or wetland professional. Rootbound plants or B&B plants with damaged, cracked, or loose rootballs (major damage) will be rejected. Immediately before installation, plants with minor root damage (some broken and / or twisted roots) must be root-pruned. Matted or circling roots of containerized plantings must be pruned or straightened and the sides of the root ball must be roughened from top to bottom to a depth of approximately half an inch in two to four places. Bare root plantings of woody material are allowed only with permission from the landscape designer, wetland professional and/or City staff.

Plant sizes shall be the size indicated in the plant schedule in approved plans. Larger stock may be acceptable provided that it has not been cut back to the size specified, and that the root ball i proportionate to the size of the

plant. Smaller stock may be acceptable, and preferable under some circumstances, based on Project Goals site-specific conditions. Measurements, caliper, branching, and balling and burlapping shall conform to the American Standard of Nursery Stock by the American Association of Nurserymen (latest edition).

Evergreen trees shall have single trunks and symmetrical, well-developed form. Deciduous trees shall be single trunked unless specified as multi-stem in the plant schedule. Shrubs shall have multiple stems and be well-branched.

Unless otherwise approved by City staff, all planting shall occur between November 1 and March 1 Overall, the earlier plants go into the ground during the dormant period, the more time they have to adapt to the site and extend their root systems before the water demands of spring and summer.

Weeding

Timing of Planting

Existing and exotic vegetation in the mitigation areas will be hand-weeded from around all newly installed plants at the time of installation and on a routine basis throughout the monitoring period. No hemical control of vegetation on any portion of the site is recommended.

The contractor shall immediately notify the landscape designer and/or wetland professional or drainage or soil conditions likely to be detrimental to the growth or survival of plants. Planting operations shall not be conducted under the following conditions: freezing weather, when the ground is frozen, excessively wet weather, excessively windy weather, or in excessive heat.

Planting pits shall be circular or square with vertical sides, and shall be 6" deeper and 12" larger in diameter than the root ball of the plant. Break up the sides of the pit in compacted soils. Set plants upright in pits. Burlap shall be removed from the planting pit. Backfill shall be worked back into holes such that air pockets are removed without adversely compacting down soils.

Live stake stock (a.k.a. whips, cuttings) shall be harvested and installed between October 15 and March 15, while the plant is dormant. Live stake stock is highly perishable and shall be stored in shaded, cool, and moist conditions, and installed within 2 weeks of harvesting. Live stakes shall be 5 to 6 feet long, and 0.5 to 1.5 inch diameter. Live stakes shall be installed right side up (branch nodes angled upward) to a depth of 1/3 to 1/2 the length of stock. After installation, soils shall be pressed around each live stake, if necessary.

Slow release fertilizer may be used if pre-approved by the City of Sammamish. Fertilizers shall be applied only at the base of plantings underneath the required covering of mulch (that does not make contact with stems of the plants). No soil amendment or fertilizers will be placed in planting holes.

Most shrubs and many trees DO NOT require any staking. If the plant can stand alone without staking in a moderate wind, do not use a stake. If the plant needs support, then strapping or webbing should be used as low as possible on the trunk to loosely brace the tree with two stakes. Do not brace the tree tightly or too high on the trunk. If the tree is unable to sway, it will further lose the ability to support itself. Do not use wire in a rubber hose for strapping as it exerts too much pressure on the bark. As soon as supporting the plant becomes unnecessary, remove the stakes. All stakes must be removed within two (2) years of installation.

PLANT INSTALLATION GUIDELINES Compacted topsoil Prune diseased and water thoroughly, broken branches fertilize as req'd 3-4" of mulch Planting hole min. twice size of root ball SHRUB PLANTING DETAIL Prune diseased and broken branches Lath stakes driven Planting pit min. securely in to the ground twice size of root Water basin with 3-4" mulch Unglazed planting pit surface /2 topsoil, 1/2 native soil, water thoroughly, fertilize TREE PLANTING DETAIL

Plant Location

Colored surveyors ribbon or other appropriate marking shall be attached to the installed plants to assist in locating the plants while removing the competing non-native vegetation

Arrangement and Spacing

The plants shall be arranged in a pattern with the appropriate numbers, sizes, species, and distribution that are required in accordance with the approved plans. The actual placemen of individual plants shall mimic natural,asymmetric vegetation patterns found on similar undisturbed sites in the area. Spacing of the plantings may be adjusted to maintain existing vegetation with the agreement of the landscape designer, wetland biologist, and/or City

A wetland biologist shall be present on site to inspect the plants prior to planting. Mind adjustments to the original design may be required prior to and during construction.

All landscaped areas denuded of vegetation and soil surface surrounding all planting areas shall receive no less than 2 to 4 inches of woodchip mulch after planting. Mulch shal be kept well away (at least 2 inches) from the trunks and stems of woody plants.

The goals of this mitigation plan include the following:

- Compensate for the permanent impacts to wetland, stream, and buffer areas.
- Restore temporarily disturbed buffer areas.

• Limit intrusion into the on-site critical areas.

Project Objectives These goals will be met by performing the following objectives:

- Designate 7.21 acres of critical areas and buffers in a permanently protected
- Create 1,300 square feet of wetland adjacent to Wetland B;
- Restore/enhance 2,300 square feet of buffer adjacent to wetland creation areas
- Relocate 163 linear feet of stream channel (Stream B); • Restore the relocated stream channel by planting 3,000 square feet of new
- annel and side slopes; • Restore/enhance 4,335 square feet of buffer adjacent Stream B;
- Provide 3 pieces of large woody debris in Wetland A;
- Restore/enhance 357 square feet of buffer adjacent to Stream A;
- Restore 99 square feet of buffer adjacent to Wetland C.

Performance Standards

The performance standards for all of the planted areas include the following:

- A. The planted areas shall support at least 80 percent cover of native species by the end of Year 5. There—shall be 100 percent survival of all the plantings after Year 1 or the ermittee shall replace the material. There shall be at least 80 percent survival of all the plantings in Years 2-5. The species mix should resemble that proposed in the planting plans, but strict adherence to obtaining all of the species shall not be a criterion
- B. The wetland creation area shall meet all criteria for wetland determination including 1) wetland vegetation, 2) hydric soils, and 3) hydrology.
- C. The mitigation areas shall contain no more than 10 percent cover of non-native nvasive species in any monitoring year.
- D. The relocated stream channel will be fully functional, as designed, by Year 5.
- E. Three pieces of large, woody debris that meet the dimensional specifications required will be present in Wetland Λ .
- sediment deposition, and/or other buffer impacts. G. The earthen berm at the southern end of the manmade pond will be intact and ree from any signs of erosion or failure in all monitoring years.

F. Buffer areas downslope of the infiltration trenches will be free from scour, erosion,

Invasive Species

Invasive species control will be accomplished through the use of hand removal of foliage and roots, whenever possible. Mowing of reed canarygrass and Himalayan blackberry is also effective if conducted as part of a routine maintenance schedule (five times per year or more for reed canarygrass, at least three times per year for blackberry). Invasive species such as Himalayan blackberry, reed canarygrass, Scot's broom, and Japanese knotweed are to be controlled within the mitigation area. The goal of this maintenance is to ensure that the planted native species establish as designed.

Monitoring Program

A five-year monitoring plan will begin with the preparation of an as-built report following plant installation. This report will outline what occurred on the project site during construction and identify if any changes were made to the approved planting plan. Following submittal of the as-built plan, monitoring visits will occur. Monitoring will begin the first year following mitigation installation. Monitoring visits will occur twice yearly (once in the spring, once in the fall) and will continue for five years.

Vegetation Monitoring Methodology

Sampling points or transects will be established for vegetation monitoring and photo points will be established from which photos will be taken throughout the monitoring period. Permanent sampling points will be established during the project completion assessment (as-built) and must be identified on the mitigation site plans in the as-built report (they may be drawn on approved plans by hand). Each sampling point shall detail herbaceous, shrub, and tree coverage. Monitoring of vegetation sampling points shall occur annually between May 15 and September 30 (prior to leaf-drop), unless otherwise specified.

The following data will be recorded for each data site:

- Species present
- Aerial cover by native and non-native species • Quantity of plants by species
- Quantity of dead plants
- General observations

Hydrology Monitoring

One shallow groundwater monitoring station will be installed in the wetland creation area. The wetland creation area should be saturated within the upper 10 inches of the soil profile for at least 2 consecutive weeks during the growing season (March to mid-April). It positive indicators of hydrology have been achieved within the five-year monitoring period, hydrology monitoring may cease.

Monitoring of hydrology within the stream channels will be conducted through visual observations. The relocated stream segment should flow freely and consistently through the relocated channel. Observations to be recorded include: signs of erosion, changes in flow pattern, vegetation growth, and vegetation coverage within the channel side slopes. In addition, post-project conditions of the existing manmade pond will be visually inspected during each monitoring event, and any changes to the stability of the earthen berm impoundment will be noted. If any erosion of the berm or signs of potential failure are observed, contingency measures to stabilize the berm will be determined and implemented.

Photo points

Permanent photo points will be established within the mitigation areas. Photographs will be taken from these points to visually record condition of the mitigation areas Photos shall be taken annually between May 15 and September 30 (prior to leaf-drop), unless otherwise specified.

Infiltration Trenches

During each monitoring visit, the infiltration trenches adjacent to the buffer will be visually inspected. The general condition of the trenches will be included in the annual monitoring reports submitted to the City of Sammamish. If scour, erosion, sediment deposition, and/or other localized or buffer impacts occur within the buffer area emporary erosion and sediment control measures will be installed until the necessary repairs can be made. Prior to any repairs, the project engineers shall be notified of th situation; they will assist with the repair/rehabilitation process and will coordinate with the City of Sammamish engineers to determine a solution. *Monitoring Reports* Monitoring reports will be prepared and submitted to the City of Sammamish in the fall of each monitoring year (i.e. following the second annual monitoring visit). Th reports will summarize the overall conditions of the planting areas and discuss whether the performance standards are being met. Photos of the planting areas will also b provided. On year 5, the final monitoring report will be prepared and will determine if the mitigation plan has been successful per the established goals, objectives, and performance standards. If the mitigation plan is deemed unsuccessful, contingency actions will be utilized and/or the monitoring period may be extended.

Contingency

If, during any of the monitoring visits, 20% of the plants within any planting area are severely stressed, or it appears that 20% may not survive, additional plants will be added to the planting areas. If invasive and non-native species exceed 10% aerial coverage within any of the planting areas at any time, control measures will be initiated Additional contingency actions may include, but will not be limited to, more aggressive weed control, mulching, species substitution, soil amendments, and/or irrigation. It necessary, a meeting between the consulting biologist and City of Sammamish personnel will be held to develop new contingency actions.

Maintenance

The mitigation areas will require periodic maintenance to ensure success of the mitigation measures. Maintenance shall occur in accordance with the approved plans Maintenance may include, but will not be limited to: removal of competing grasses (by hand if necessary), irrigation, fertilization (if necessary), replacement of plant mortality, and the replacement of mulch for each maintenance period. Chemical control, only if approved by City staff, shall be applied by a licensed applicator following all label instructions.

Duration and Extent

In order to achieve performance standards, the permittee shall have the mitigation area maintained for the duration of the 5-year monitoring period or until performan standards are met, whichever is greater. Maintenance will include: watering, weeding around the base of installed plants, pruning, replacement, re-staking, removal of a classes of noxious weeds (see Washington State Noxious Weeds List, WAC 16-750-005) as well as Himalayan blackberry, and any other measures needed to ensure plant survival. The landscape designer and/or wetland biologist shall direct all maintenance.

The permittee shall be responsible for the health of 100% of all newly installed plants for one growing season after installation has been accepted by the City of Sammamish. growing season for these purposes is defined as occurring from spring to spring (March 15 to March 15 of the following year). For fall installation (often required), the growing season will begin the following spring. The permittee shall replace any plants that are: failing, weak, defective in manner of growth, or dead during this growing season, a directed by the landscape designer, wetland biologist, and/or City of Sammamish staff.

Installation Timing for Replacement Plants

Replacement plants shall be installed between September 15 and January 15, unless otherwise determined by the landscape designer, wetland professional, and/or City staff.

Replacement plants shall meet the same standards for size and type as those specified for the original installation, unless otherwise directed by the landscape designer, wetlandscape professional, and/or City staff.

Plants that have settled in their planting pits too deep, too shallow, loose, or crooked shall be replanted as directed by the landscape designer, wetland professional, and/or

City staff.

Chemical controls shall not be used in the mitigation area, sensitive areas, or their buffers. However, limited use of herbicides may be approved depending on site-specific

conditions, only if approved by City staff.

Irrigation / Watering Water shall be provided during the dry season (July 1 through October 15 at minimum) for the first two years after installation to ensure plant survival and establishment. temporary above ground irrigation system and/or water truck should provide water. Water should be applied at a rate of 1" of water twice per week for Year 1, and 1" per

week during Year 2.

The permittee shall include in general maintenance activities the replacement of any vandalized or damaged signs, habitat features, fences, or other structural components of this mitigation site.

Critical Area Markers and Signs

Pursuant to SMC 21A.50.190 the on-site wetlands, streams, and their associated buffers will be placed in a critical area tract for permanent protection. The boundary of the critical area tract shall be marked with permanent survey stakes, signs, and fencing according to the required standards in SMC 21A.50.170. Permanent signs shall be a City-approved type designed for high durability. Signs must be posted at an interval of one per lot or every 50 feet, whichever is less, and must be maintained by the property owner or homeowners' association in perpetuity. The wording, number and placement of the signs may be modified by the director based on specific site conditions. Fencing shall be designed to not interfere with fish and wildlife migration and shall be constructed in a manner that minimizes critical areas impacts.

ENVIRONMENTALLY SENSITIVE AREA

THIS STREAM, WETLAND, AND UPLAND BUFFER ARE PROTECTED TO PROVIDE WILDLIFE HABITAT AND MAINTAIN WATER QUALITY.

THIS VALUABLE RESOURCE CONSULT RECORDED PLAT OR SAMMAMISH

PLEASE DO NOT DISTURB

PLANNING AND DEVELOPMENT SERVICES FOI ESA RESTRICTIONS

1. Affix 12"x 18" Aluminum sign with white

the City of Sammamish for approval.

4. All signs must be secure and permanent.

reflective background to fence post with a minimum of two galvanized or stainless steel wood lag bolts to firmly secure sign.

2. ESA signs shall be placed no greater than 50 feet apart around the perimeter of the Environmentally Sensitive Area. Minimum placement shall include one Type 1 sign per wetland, and at least one Type 1 sign shall be placed in any lot that

borders the Environmentally Sensitive Area, unless otherwise approved by

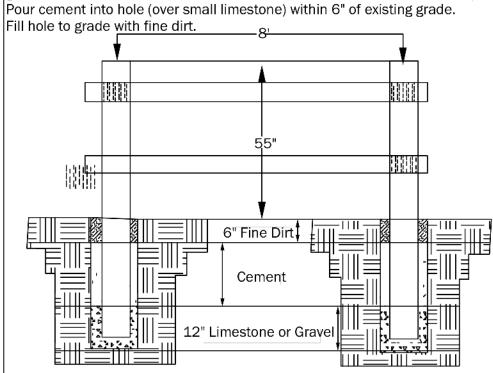
the City biologist. 3. Sign placement shall be subject to the approval of the City of Sammamish. Alternative sign designs may be submitted to

Fencing should be installed per the manufacturer's directions. The following recommendations are based on specifications provided by Centurion for use with ranch style fencing.

TWO-RAIL RANCH STYLE FENCE DETAIL*

A two rail fence shall be installed to designate and to protect the Sensitive Area.

Fence posts should be 5" x 5" x 85". Fence posts should be spaced approximately 8' apart. All fence post holes should be a minimum 30" deep. Place post in hole and backfill with approximately 12" of small limestone or



*Installation instructions are appropriate for two-rail ranch style fencing constructed from other materials.

FOR: ARED Jul Bros., Inc.: Jeff Peters Avenue NF PREPAH Toll J Attn: Jo

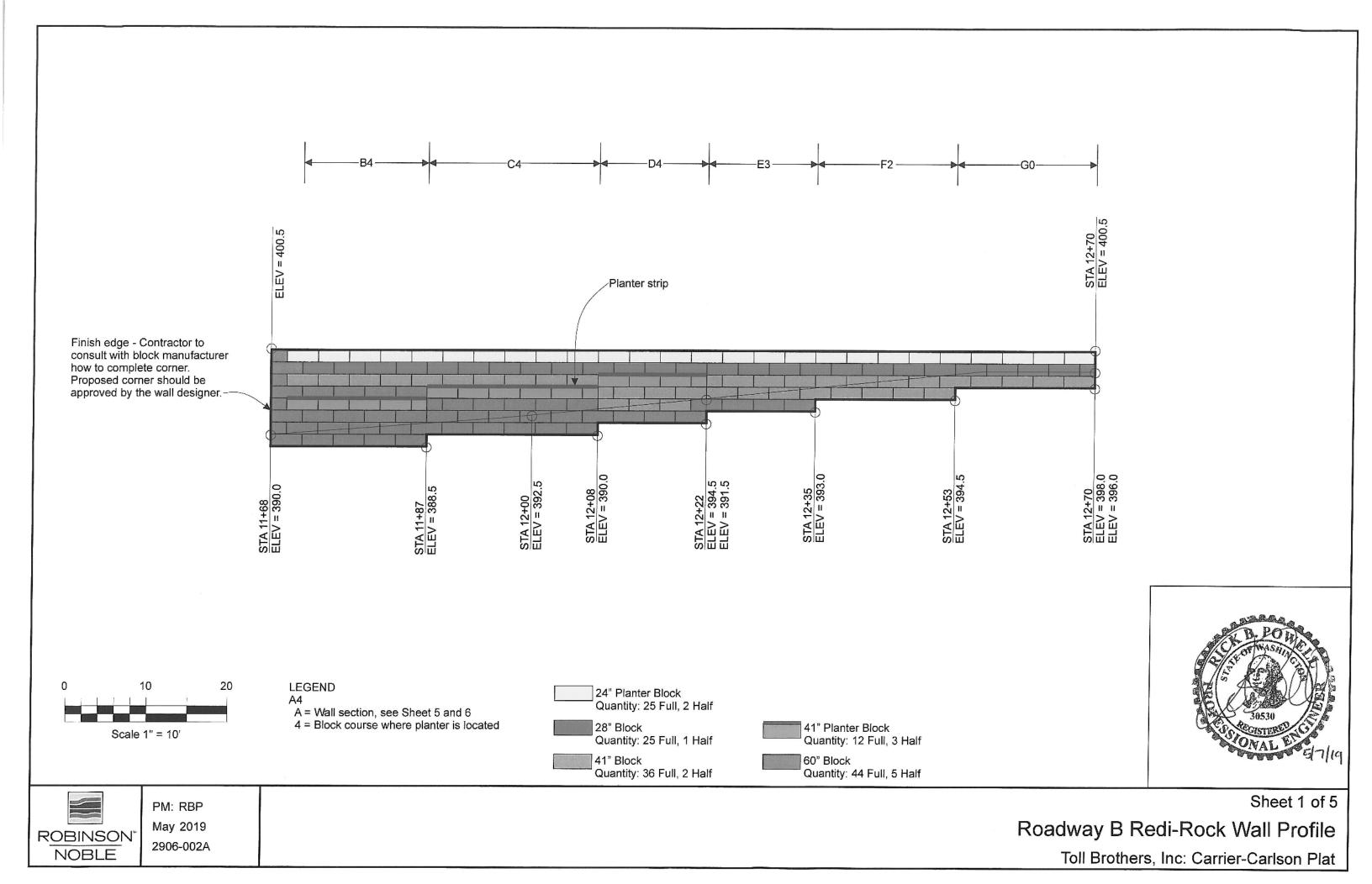
PI CARRIER

CARRIER

AMISH, WASHING FINAL

PLANNING DEPT. APPROVAL BY: ABaty DATE: 08/16/2019

SHEET W3



SPECIFICATIONS FOR REDI-ROCK RETAINING WALL

- The contractor shall have an approved set of plans and specifications on site at all times during the construction of the wall. The wall layout is the responsibility of the contractor.
- 2. A professional engineer or representative should observe and monitor the construction of the wall.

Subgrade Preparation:

- 1. The ground should be prepared by removing surficial unsuitable soil, exposing medium dense or firmer inorganic, native soils as approved by the geotechnical engineer.
- 2. The excavation shall be cleaned of all excess material and protected, as necessary, from construction traffic to maintain the integrity of the subgrade.

- 1. A drainage system shall be installed as shown in the typical cross-section detail. The wall drain shall consist of 1- to 2-inch washed-rock blanket and a 6-inch perforated pipe place behind the base of the wall. The washed rock should have a minimum width of 12 inches. The rock should be wrapped by filter fabric (Mirafi 140N or equivalent). The perforated pipe should be tightlined to an approved drainage at the low point of the
- 2. A drainage blanket with a minimum width of 12 inches should be installed directly behind the blocks and shall consist of 5/8" crushed rock or angular free-draining material. All of the drainage material shall have a fines content no greater than 5% passing the number 200 sieve.
- Surface water shall not be allowed to pond in or near the reinforced fill zone during or after construction, as

Redi-Rock Blocks:

- Redi-Rock blocks should have a layout corresponding to the wall height as shown in the plans.
- 2. Stacked blocks should be placed in a manner such that the blocks are interconnected.

Embedment:

- Base blocks should be embedded into bearing, native soils.
- 2. If native bearing soils are not encountered, a deeper embedment and setback may be necessary.

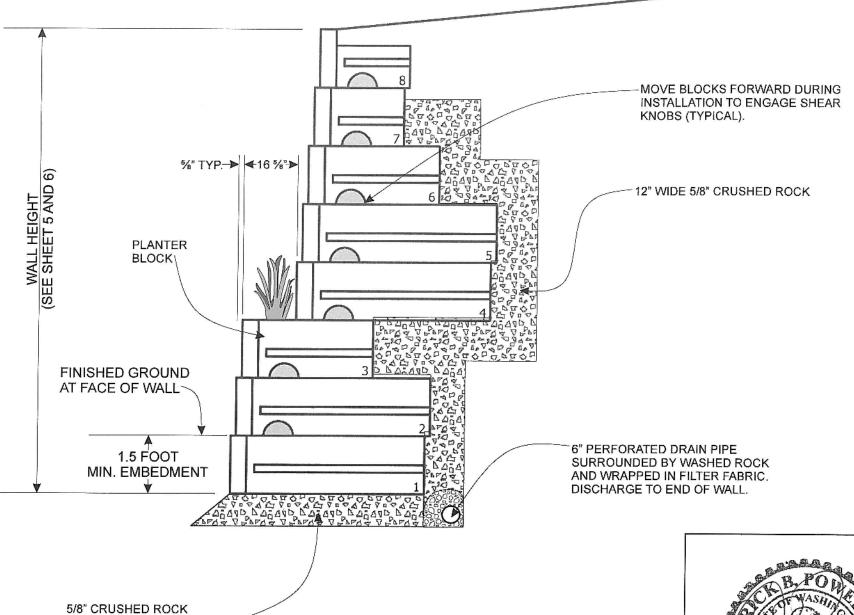
The construction shall be periodically inspected under the direction of an engineer registered in the state of Washington with experience in the design of reinforced earth retaining walls.

Design Parameters:

Weathered Till Backfill 32 deg 125 PCF c = 50 psf Undisturbed Till Soil 34 deg 130 PCF c = 250 psf

External Stability:

Minimum Factor of Safety against Base Sliding = 1.5 Minimum Factor of Safety against Overturning = 2.0 Minimum Factor of Safety against Bearing Capacity = 2.5

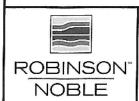


LEVELING PAD, 6" MAXIMUM

FILL WEDGE BETWEEN ADJACENT BLOCKS WITH DRAINSTONE (ALL BLOCKS) FILL VERTICAL CORE SLOT WITH DRAIN STONE (PC BLOCKS)



Sheet 2 of 5

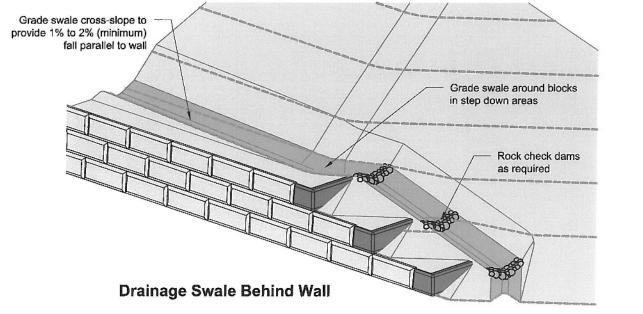


PM: RBP

May 2019 2906-002A Typical Redi-Rock Section Detail

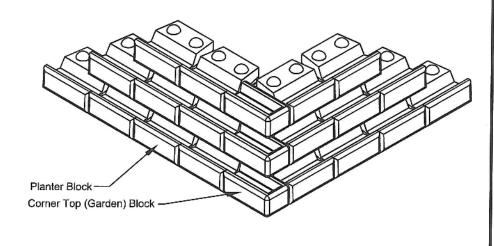
Toll Brothers, Inc: Carrier-Carlson Development

Drainage Swale Options 2'-10" (0.86 m) 3'-0" (0.9 m) Minimum Minimum 8" (203 mm) 30 mil PVC or EPDM geomembrane (Textured on both sides) Non-woven geotextile fabric (AASHTO M288 Survivability Class 2) between geomembrane and soil 3'-10" (1.17 m) 24" (610 mm) **Grass Swale** Minimum slope 8" (203 m Concrete 6" (152 mm) thick (Minimum) **Concrete Swale** Non-woven geotextile fabric (AASHTO M288 Survivability Class 2)

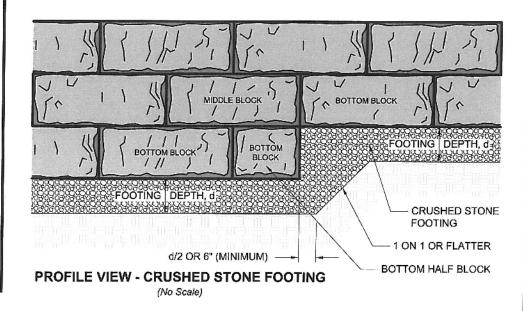


This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site.

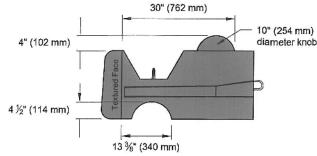
90° Outside Corner with Planter Blocks (41" Series)



STEP FOOTING DETAILS

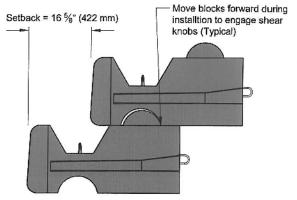


Planter Blocks

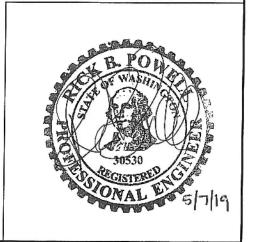


Available wi

- 41" (1030 mm) blocks (shown here) and 60" (1520 mm) blocks
- Not available in PC blocks



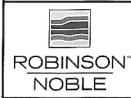
Redi-Rock has two options for large batter retaining walls. Both options are created by relocating the knob so that it is further back in the Redi-Rock blocks compared to our smaller batter walls (5° or less). There are two knob locations further back in the block which create the 9" (230 mm) setback block and the planter block. Blocks made with knobs in either of these locations almost exclusively use 10" (254 mm) diameter knobs.



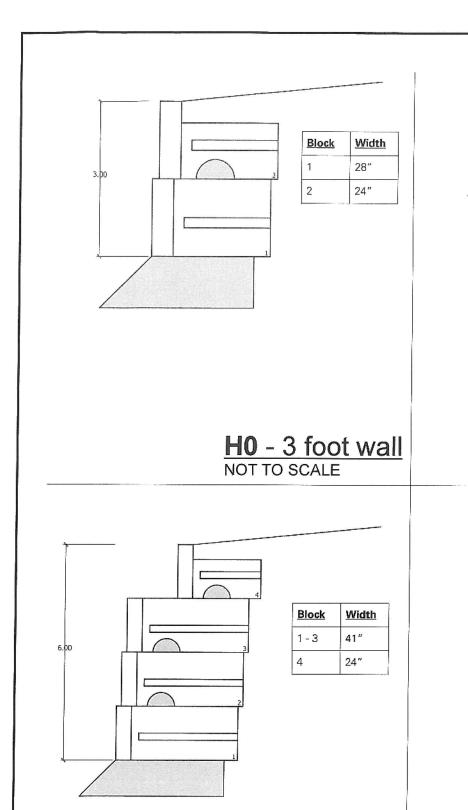
Sheet 3 of 5

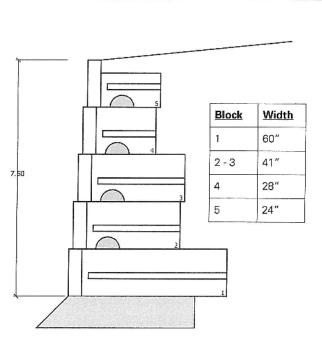
Redi-Rock Wall Details

Toll Brothers, Inc: Carrier-Carlson Development



PM: RBP November 2018 2906-002A





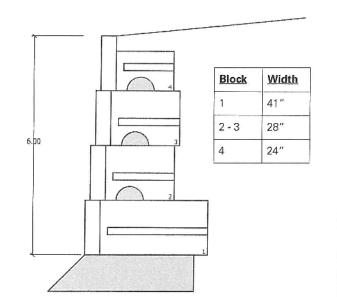


Width

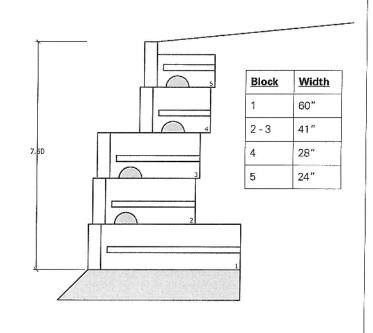
28"

24"

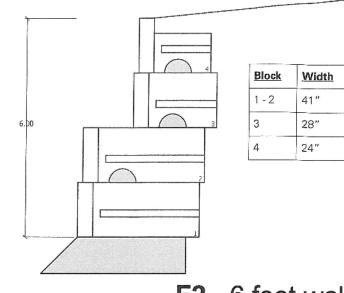
G0 - 4.5 foot wall



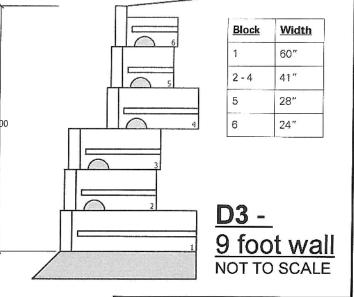
F0 - 6 foot wall

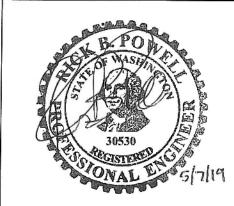


E3 - 7.5 foot wall



F2 - 6 foot wall





Sheet 4 of 5

Redi-Rock Block Layout Details

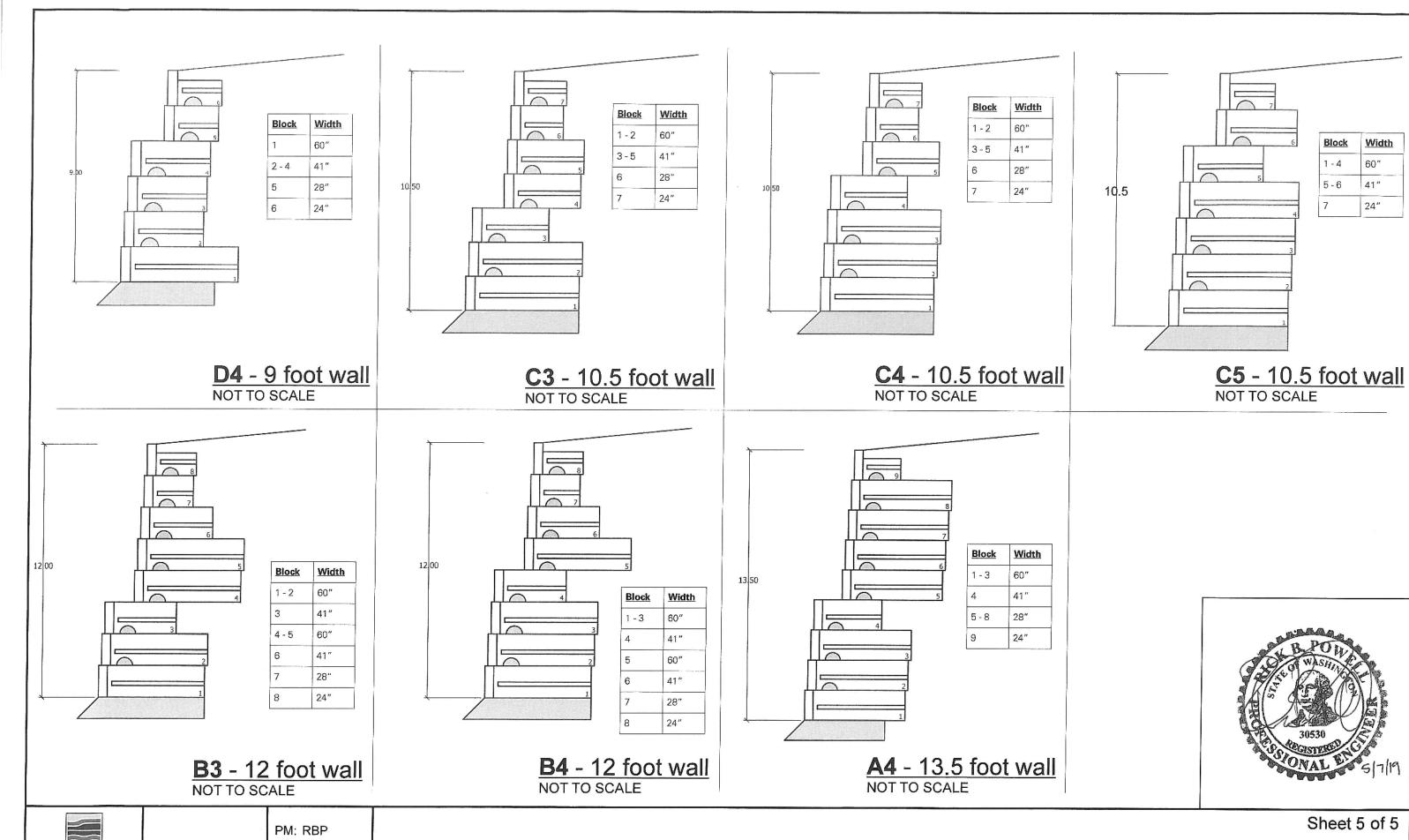
Toll Brothers, Inc: Carrier-Carlson Development



PM: RBP November 2018 2906-002A

F3 - 6 foot wall

NOT TO SCALE



November 2018

2906-002A

ROBINSON

NOBLE

Sheet 5 of 5

Block

1 - 4

5-6

Width

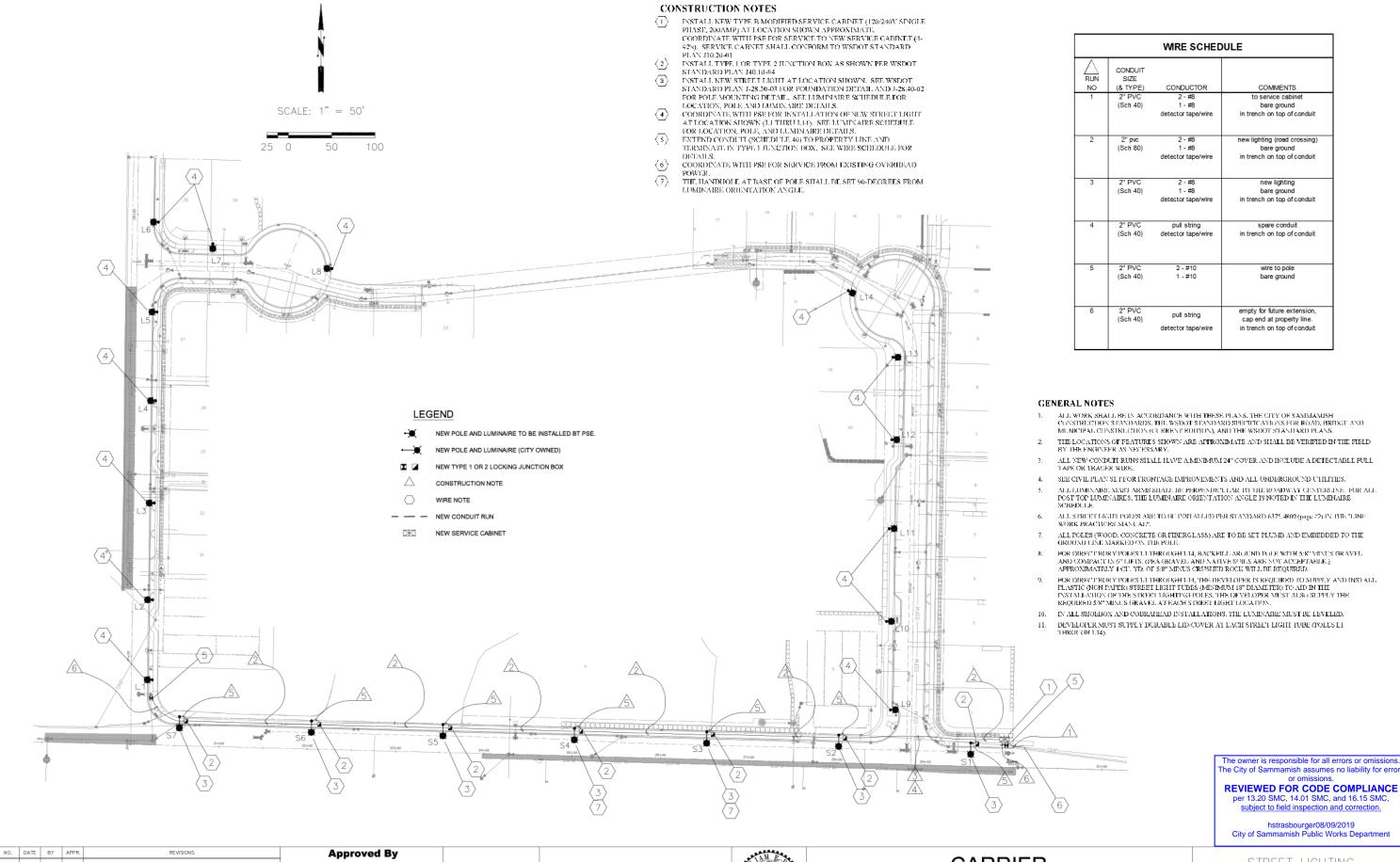
60"

41"

24"

Redi-Rock Block Layout Details

Toll Brothers, Inc: Carrier-Carlson Development



DATE DRAWN BY

CHECKED BY

PROJECT MANAGER

CARRIER
CITY OF SAMMAMISH

STREET LIGHTING PLAN SHEET

PERMIT# - SDP2018-0654

SHT ____IL1_

LUMINAIRE SCHEDULE											
per plan	(1) (2)		LOCA	TION	POLE	MAST				Luminaire	
LUMINAIRE	CIRCUIT		STATION	OFFSET	HEIGHT	ARM	POLE	FIXTURE		Orientation	
NO.	NO	Road	(FŒT)	(FEET)	(ft)	(ft)	TY PE	TYPE	LUMINA IRE	Angle	COMMENTS
S1	1	SE 8th St	59+55	26 LT	35	8	BS MT STEEL BLK PWDR	COBRA	GCM2-30H-MV -NW-2R-XX-850S 9927 lmns / 82W Type 2 / 4K	0 deg	City owned system, Contractor Installed
S2	1	SE 8th St	58+05	31 LT	35	8	BS MT STEEL BLK PWDR	COBRA	GCM2-30H-MV -NW-2R-XX-850S 9927 lmns / 82W Type 2 / 4K	0 deg	City owned system, Contractor Installed
S3	1	SE 8th St	56+55	31 LT	35	8	BS MT STEEL BLK PWDR	COBRA	GCM2-30H-MV-NW-2R-XX-850S 9927 lmns / 82W Type 2 / 4K	0 deg	City owned system, Contractor Installed
S4	1	SE 8th St	55+05	31 LT	35	8	BS MT STEEL BLK PWDR	COBRA	GCM2-30H-MV-NW-2R-XX-850S 9927 lmns / 82W Type 2 / 4K	0 deg	City owned system Contractor Installed
S5	1	SE 8th St	53+55	31 LT	35	8	BS MT STEEL BLK PWDR	COBRA	GCM2-30H-MV-NW-2R-XX-850S 9927 lmns / 82W Type 2 / 4K	0 deg	City owned system Contractor Installed
S6	1	SE 8th St	52+05	31 LT	35	8	BS MT STEEL BLK PWDR	COBRA	GCM2-30H-MV-NW-2R-XX-850S 9927 lmns / 82W Type 2 / 4K	0 deg	City owned system Contractor Installed
S7	1	SE 8th St	50+55	31 LT	35	8	BS MT STEEL BLK PWDR	COBRA	GCM2-30H-MV-NW-2R-XX-850S 9927 lmns / 82W Type 2 / 4K	0 deg	City owned system Contractor Installed
L1	PSE direct feed	214th Ave SE	20+73	22.5 RT	20	0	Washington (Post Top) Concrete	PSE K595	CV 1-H-MV -40K-2R-XX-035 S 3294 Imns / 24W Type 2 / 4K	0 deg	PSE owned, Intolight to install: Washington Pole Concrete Corten color
L2	PSE direct feed	214th Ave SE	21+63	22.5 RT	20	0	Washington (Post Top) Concrete	PSE K595	CV 1-H-MV -40K-2R-XX-035 S 3294 Imns / 24W Type 2 / 4K	0 deg	PSE owned, Intolight to install: Washington Pole Concrete Corten color
L3	PSE direct feed	214th Ave SE	22+73	22.5 RT	20	0	Washington (Post Top) Concrete	PSE K595	CV 1-H-MV -40K-2R-XX-035 S 3294 Imns / 24W Type 2 / 4K	0 deg	PSE owned, Intolight to install: Washington Pole Concrete Corten color
L4	PSE direct feed	214th Ave SE	23+89	22.5 RT	20	0	Washington (Post Top) Concrete	PSE K595	CV 1-H-MV -40K-2R-XX-035 S 3294 Imns / 24W Type 2 / 4K	0 deg	PSE owned, Intolight to install: Washington Pole Concrete Corten color
L5	PSE direct feed	214th Ave SE	24+90	22.5 RT	20	0	Washington (Post Top) Concrete	PSE K595	CV 1-H-MV -40K-2R-XX-035 S 3294 Imns / 24W Type 2 / 4K	0 deg	PSE owned, Intolight to install: Washington Pole Concrete Corten color
L6	PSE direct feed	214th Ave SE	25+91	22.5 RT	20	0	Washington (Post Top) Concrete	PSE K595	CV 1-H-MV -40K-2R-XX-035 S 3294 Imns / 24W Type 2 / 4K	0 deg	PSE owned, Intolight to install: Washington Pole Concrete Corten color
L7	PSE direct feed	Road B	1+86	25.5 LT	20	0	Washington (Post Top) Concrete	PSE K595	CV 1-H-MV -40K-2R-XX-035 S 3294 Imns / 24W Type 2 / 4K	0 deg	PSE owned, Intolight to install: Washington Pole Concrete Corten color
L8	PSE direct feed	Road B cul- de-sac	3+21	1.21 LT	20	0	Washington (Post Top) Concrete	PSE K595	CV 1-H-MV -40K-2R-XX-035 S 3294 Imns / 24W Type 2 / 4K	as shown	PSE owned, Intolight to install: Washington Pole Concrete Corten color
L9	PSE direct feed	Road A	10+61	23.5 LT	20	0	Washington (Post Top) Concrete	PSE K595	CV 1-H-MV -40K-2R-XX-035 S 3294 Imns / 24W Type 2 / 4K	0 deg	PSE owned, Intolight to install: Washington Pole Concrete Corten color
L10	PSE direct feed	Road A	11+61	30 LT	20	0	Washington (Post Top) Concrete	PSE K595	CV 1-H-MV -40K-2R-XX-035 S 3294 Imns / 24W Type 2 / 4K	0 deg	PSE owned, Intolight to install: Washington Pole Concrete Corten color
L11	PSE direct feed	Road A	12+67	29 LT	20	0	Washington (Post Top) Concrete	PSE K595	CV 1-H-MV -40K-2R-XX-035 S 3294 Imns / 24W Type 2 / 4K	0 deg	PSE owned, Intolight to install: Washington Pole Concrete Corten color
L12	PSE direct feed	Road A	13+68	27 LT	20	0	Washington (Post Top) Concrete	PSE K595	CV 1-H-MV -40K-2R-XX-035 S 3294 lmns / 24W Type 2 / 4K	0 deg	PSE owned, Intolight to install: Washington Pole Concrete Corten color
L13	PSE direct feed	Road A	14+62	27 LT	20	0	Washington (Post Top) Concrete	PSE K595	CV 1-H-MV -40K-2R-XX-035 S 3294 Imns / 24W Type 2 / 4K	0 deg	PSE owned, Intolight to install: Washington Pole Concrete Corten color
L14	PSE direct feed	Road A cul- de-sac	15+93	18 LT	20	0	Washington (Post Top) Concrete	PSE K595	CV 1-H-MV -40K-2R-XX-035 S 3294 Imns / 24W Type 2 / 4K	as shown	PSE owned, Intolight to install: Washington Pole Concrete Corten color

City of Sammamish

PWS.15.345 - Street Light Construction.

- A. All workmanship, materials and testing shall be in accordance with the most current Washington State Department of Transportation/American Public Works Association Standard Specifications for Road, Bridge, and Municipal Construction, and National Electrical Code as applicable unless otherwise specified below. In cases of conflict the most stringent guideline shall apply. When the most stringent guideline is not clear, the director of public works/finance will make the determination. The electrical contractor shall be familiar with all above stated publications and guidelines as they will be strictly enforced by the City.
- B. All safety standards and requirements shall be complied with as set forth by the State of Washington Department of Labor and Industries
- C. The contractor shall be responsible for all traffic control in accordance with the Manual on Uniform Traffic Control Devices. Prior to disruption of any traffic, traffic control plans shall be prepared and submitted to the City for approval. (See WSDOT Standard Plans K2 K21). No work shall commence until all approved traffic control is in place.
- A pre-construction meeting shall be held with the City of Sammamish prior to the start of construction.
- E. All approvals and permits required by the City of Sammanish shall be obtained by the contractor prior to the start of construction.
- F. It shall be the responsibility of the contractor to have a copy of an approved set of plans on the construction site at all times.
- G. All surveying and staking shall be done by a surveying or engineering firm licensed in the state of Washington.
- H. Temporary erosion control/water pollution measures shall be required in accordance with Section 1-07.15 of the WSDOT/APWA Standard Specifications and the King County Surface Water Design Manual. At no time will slit and debris be allowed to drain into an existing or newly installed facility.
- If construction is to take place in the county right-of-way, the contractor shall notify the county and obtain all the required approvals and permits.
- The contractor shall be fully responsible for the location and protection of all existing utilities. The contractor shall verify all utility locations prior to construction by calling the Underground Locate Line at 1-800-422-5555 a minimum of 48 hours prior to any excavation. The contractor will also be responsible for maintaining all locate marks once the utilities have been located.
- K. Electrical permits and inspections are required for all street lighting installations within the City of Sammamish. The contractor is responsible for obtaining permits prior to construction. These permits are available from the electrical inspection permit counter at Puget Sound Energy. Prior to installation of any materials the electrical contractor shall submit for approval by the City two copies of material catalog cuts, specifications, shop drawings and/or wiring diagrams. Any materials purchased or labor performed prior to such approval shall be at the contractor's risk. Mounting heights, arm length, power source, luminairs type and bolt patterns shall follow PWS.15.340. Modifications of any portion of the lighting system will not be allowed without prior approval by the City.

- L. A rated service disconnect shall be provided for every branch circuit. Light branch circuit breakers shall be 40 amp minimum. The location and installation of the disconnect shall conform to the National Electric Code (NEC) and City of Sammanish Standards. The service disconnect shall by of a type equal to a "MYERS" MEUGL-M100C- UM or "UNICORN" CPIIIB-0111A Service, 120/240 VAC, CALTRANS TYPE 3B or City approved equal, with two lighting relays, one three position test switch (Auto/Off/IManual) and one photocell. The photocell shall face north unless otherwise directed by the City.
- M. Service entrance conductors shall be a minimum size of #2 copper. All lighting wire shall be stranded copper with a minimum size of #8 with insulation suitable for wet locations. Phasing tape will not be allowed. All wire shall be installed in schedule 40 PVC conduit with a minimum diameter of one-andone-quarter inches. All conduit shall be installed in the "utility ditch" or as other-wise directed by the City. A bushing or bell end shall be used at the end of every conduit. All splices shall be in the nearest junction box. Whre nuts will not be allowed. All splices will be made with Type C copper fittings, centered and encased in a 3-M Scotchcast epoxy kit, rated at 600 Volts, Type 82-A1, 82-B1 or City approved equal. If more than one circuit passes through a junction box each is to have a PCV sleeve clearly identifying the circuit. (WSDOT Standard Specification 8-20.3), A 500-volt megger test will be performed by the electrical contractor on each circuit between conductor and ground prior to acceptance of the lighting system. The insulation resistance shall not be less than six mega-ohms under 2,500 feet. A functional test will be performed by the City, in which it is demonstrated that each and every part of the system functions as specified or intended herein. (WSDOT Standard Specifications 8-20.3(11).
- N. Each luminaire pole shall have an in-line, fused, water tight electrical disconnect located at the base of the pole. Access to these fused disconnects shall be through the hand-hole on the pole. The hand-hole shall be facing away from on-coming traffic from the adjacent street. Load side of in-line fuse to luminaire head shall be cable and pole bracket wire, two conductor. 19-strand cop-per #10 and shall be supported at the end of the luminaire arm by an approved means (Drawing 2-17.2). Fuse, size, disconnect installation and grounding in pole shall conform to WSDOT Standards.
- O. City approved pull boxes or junctions boxes shall be installed per WSDOT Standard Plan J- 11a in all street lighting installations. Junction boxes shall be incorporated into the back edge of sidewalk or as directed by City. Where no sidewalks exists, junction boxes shall have a concrete pad per City of Sammamish Standards. No conduit run shall be more than 200 feet between Junction Boxes. A junction box shall be located within 10 feet of each luminaire pole and at every road crossing. No conduit shall be installed in the roadway except at designated road crossings. Conduit entering the junction box shall be perpendicular to the sides of the box and a minimum of six but no more than eight inches below the lid. Boxes shall be clearly and indelibly marked as lighting boxes by the legend "L.T." or "LIGHTING". All J-Boxes shall be supported by a minimum six-inch crushed gravel pad. A threeeighths-inch expansion joint shall be installed between concrete sidewalk and junction box.
- P. All lighting poles shall be as specified in PWS.15.340. In existing developed areas, the City may require the use of other poles to establish uniformity within the developed area. After installation and before acceptance by the City all poles shall be free of dents and marks. Sonotube shall be removed to below ground level. Pole bases shall be grouted and all luminaire heads shall be plumb and level.
- Q. Conduit shall extend between three and six inches above the concrete base.

PLANNING DEPT. APPROVAL

BY: ABaty DATE: 08/16/2019

R. Any modification to approved lighting plans shall be reviewed and approved by the City prior to installation. Any approved modifications shall be shown on a mylar as-built supplied to the City after the lighting installation is completed and before final acceptance. It shall be the responsibility of the electrical contractor to ensure these as-builts are provided to the City.

The owner is responsible for all errors or omissions.
The City of Sammamish assumes no liability for errors
or omissions.

REVIEWED FOR CODE COMPLIANCE

per 13.20 SMC, 14.01 SMC, and 16.15 SMC subject to field inspection and correction.

hstrasbourger08/09/2019 City of Sammamish Public Works Department



CARRIER
CITY OF SAMMAMISH

STREET LIGHTING PLAN SHEET

PERMIT# - SDP2018-0654

SHT_IL2