CT ENGINEERING INC.

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STEEL FRAME CALCULATIONS

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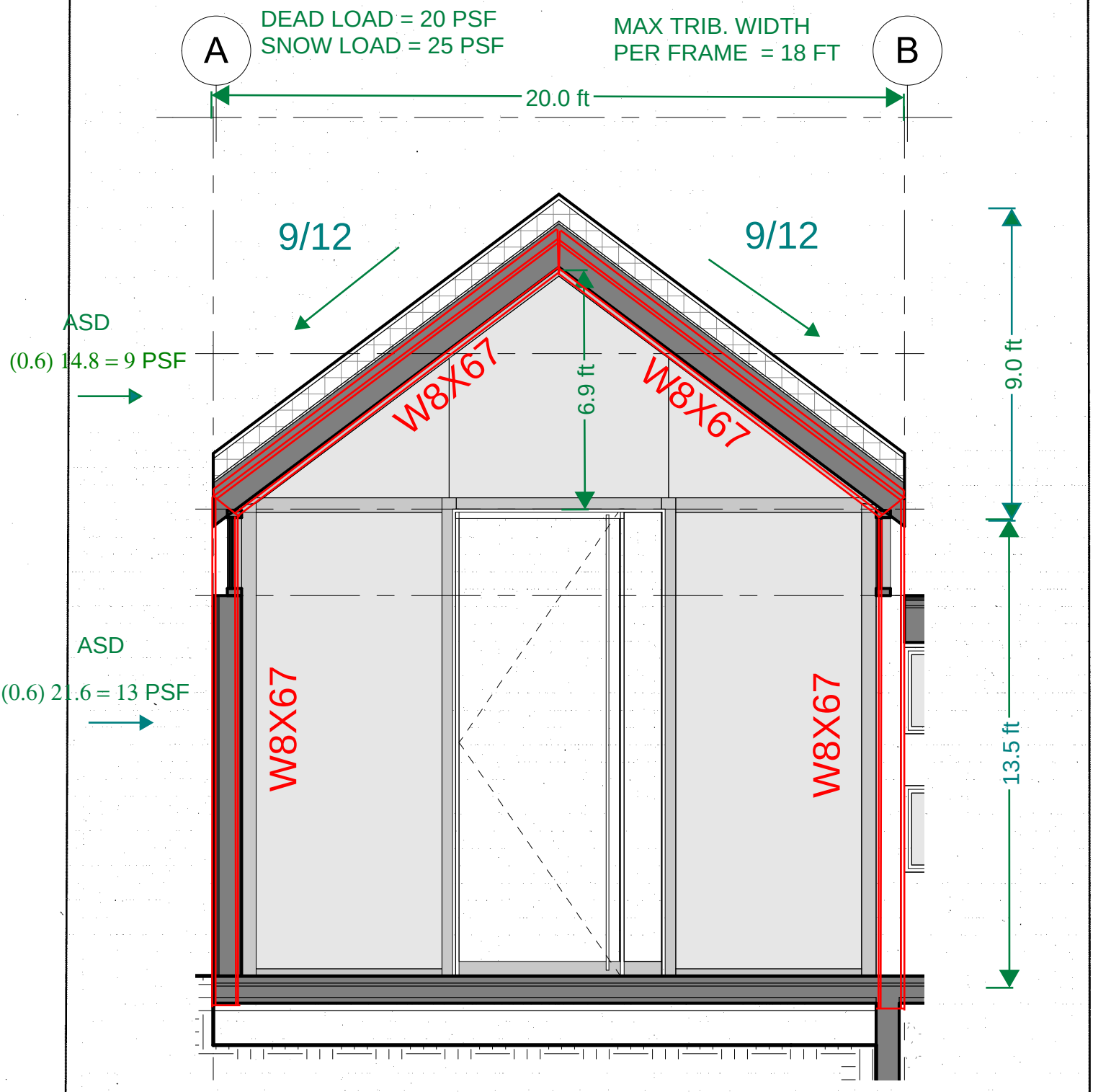
Project: FOO FRAMES Date:

Client: Page Number:



Mercer Island Wind Exposure and Wind Speed-Up (Topographic Effect)

by Development Services Group (DSG), City of Mercer Island
April 2009

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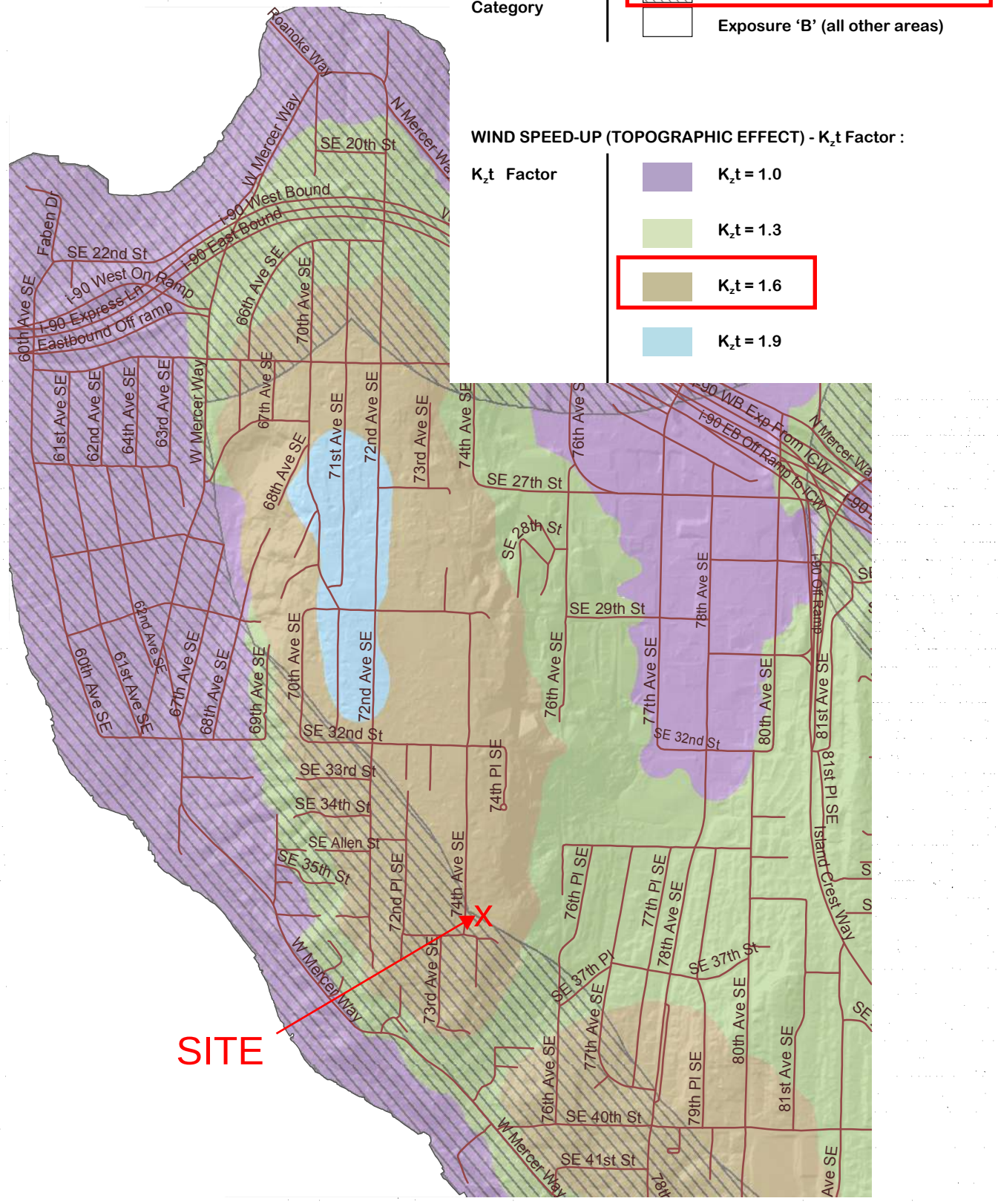

CT ENGINEERING
Project: Foo Frames
Client:
Date: 5-25-2020
Page Number:
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WIND LOADS - MAIN WIND FORCE RESISTING SYSTEM

Simplified Design Wind Pressure ASCE 7-10, Section 28.6

Wind Criteria:

Risk Category, I, II, III or IV =	II		Table 1.5-1 of ASCE 7-10
Basic Wind Speed	110	MPH	Figure 26.5-1A, B or C of ASCE 7-10
Exposure	C		
Average roof height	18.00	ft.	
Roof angle	30° to 45°		
K_{zt} =	1.60		Section 26.8 and Figure 26.8-1 of ASCE 7-10
λ=	1.29		

Minimum wind pressure, p_s, Zones A and C = +16 PSF, Zones B and D = +8 PSF, with p_s for Zones E, F, G and H =0 psf. (Section 26.6.4 of ASCE 7-10)

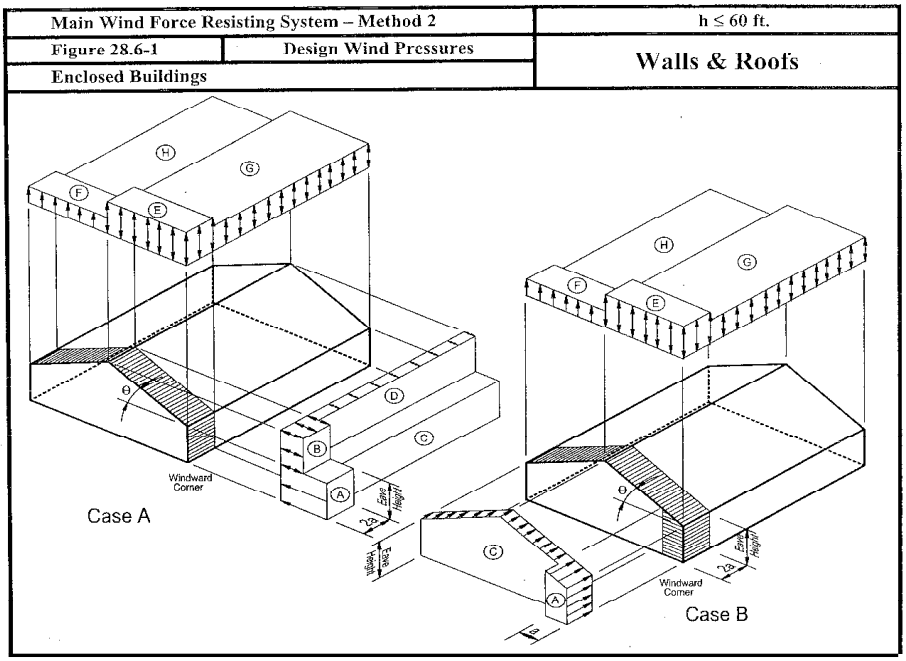
$P_S = \lambda * K_{zt} * p_{S30}$

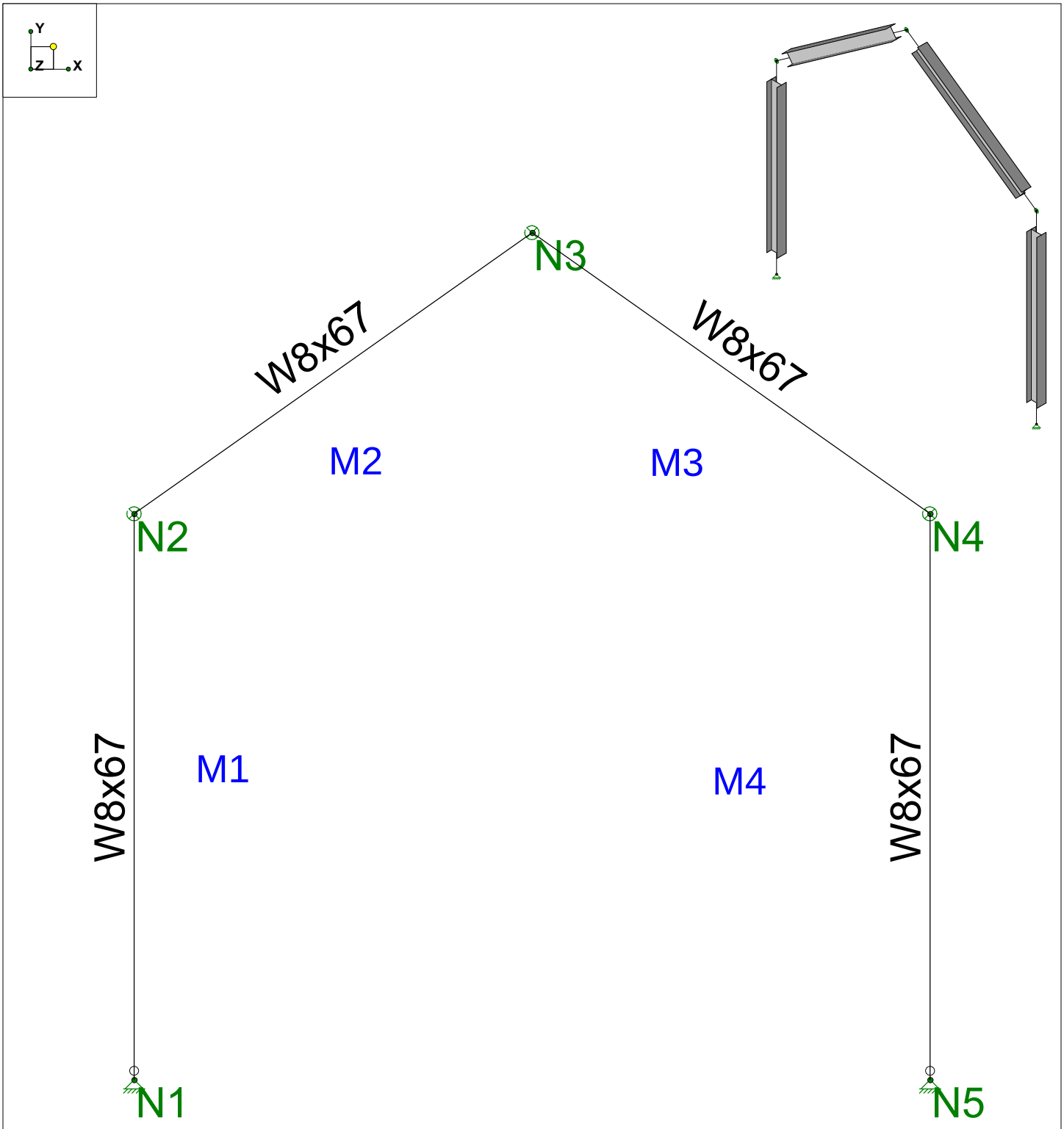
ASD

(0.6) 21.6 = 13 PSF →

(0.6) 14.8 = 9 PSF →

	Load Case 1				Load Case 2			
Zone	p_{s30}		P_S		ps30		PS	
A	21.60	PSF	44.58	PSF	21.60	PSF	44.58	PSF
B	14.80	PSF	30.55	PSF	14.80	PSF	30.55	PSF
C	17.20	PSF	35.50	PSF	17.20	PSF	35.50	PSF
D	11.80	PSF	24.36	PSF	11.80	PSF	24.36	PSF
E	1.70	PSF	3.51	PSF	8.30	PSF	17.13	PSF
F	-13.10	PSF	-27.04	PSF	-6.50	PSF	-13.42	PSF
G	0.60	PSF	1.24	PSF	7.20	PSF	14.86	PSF
H	-11.30	PSF	-23.32	PSF	-4.60	PSF	-9.49	PSF
E_{OH}	-7.60	PSF	-15.69	PSF	-7.60	PSF	-15.69	PSF
G_{OH}	-8.70	PSF	-17.96	PSF	-8.70	PSF	-17.96	PSF





CT Engineering		
STG	Foo Frames	June 4, 2020 at 8:23 AM
20035	max load middle frame	Foo frames W8x67.r2d

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rules	A [in2]	I (90,270) [i...	I (0,180) [in4]
1	HR1A	W8x67	Column	Wide Flange	A500 Gr.B R...	Typical	19.7	88.6	272
2	HR2	W8x67	Beam	Wide Flange	A500 Gr.B R...	Typical	19.7	88.6	272

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Temp [F]
1	N1	0	0	0
2	N2	0	13.75	0
3	N3	9.665	20.58	0
4	N4	19.33	13.75	0
5	N5	19.33	0	0

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Rotation[k-ft/rad]
1	N1	Reaction	Reaction	
2	N2			Reaction
3	N3			Reaction
4	N4			Reaction
5	N5	Reaction	Reaction	

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lb-out[ft]	Lb-in[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	K-out	K-in	Cb	Function
1	M1	HR1A	13.75			Lb out						Lateral
2	M2	HR2	11.835			Lb out						Lateral
3	M3	HR2	11.835			Lb out						Lateral
4	M4	HR1A	13.75			Lb out						Lateral

Joint Loads and Enforced Displacements (BLC 1 : Dead Load)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft...
1	N3	L	Y	-7.2

Joint Loads and Enforced Displacements (BLC 2 : Snow Load)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft...
1	N3	L	Y	-9

Joint Loads and Enforced Displacements (BLC 3 : Wind Load)

	Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/ft...
1	N2	L	X	5.17

Member Distributed Loads (BLC 1 : Dead Load)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M2	Y	0	0	0	0
2	M1	Y	0	0	0	0
3	M1	Y	0	0	0	0
4	M2	Y	-.04	-.04	0	0
5	M3	Y	-.04	-.04	0	0

Member Distributed Loads (BLC 2 : Snow Load)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft,%]	End Location[ft,%]
1	M2	Y	-.05	-.05	0	%100
2	M3	Y	-.05	-.05	0	%100

Load Combination Design

	Description	ASIF	CD	Service	Hot Roll...	Cold Formed	Wood	Concrete	Masonry	Aluminum	Stainless
1					Yes	Yes	Yes	Yes	Yes	Yes	Yes
2	IBC 16-8		.9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3	IBC 16-9			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4	IBC 16-10 (a)		1.25	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5	IBC 16-10 (b)		1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6	IBC 16-10 (c)		1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7	IBC 16-11 (a)		1.25	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
8	IBC 16-11 (b)		1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9	IBC 16-11 (c)		1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
10	IBC 16-12 (a)		1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11	IBC 16-12 (b)		1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12	IBC 16-13 (a)		1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13	IBC 16-13 (b)		1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14	IBC 16-13 (c)		1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
15	IBC 16-14 (a)		1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
16	IBC 16-14 (b)		1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
17	IBC 16-14 (c)		1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
18	IBC 16-15		1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
19	IBC 16-16		1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Moment [k-ft]	LC
1	N1	max	.648	5	9.165	5	0	2
2		min	-1.462	18	2.444	18	0	2
3	N2	max	0	2	0	2	40.184	13
4		min	0	2	0	2	13.976	2
5	N3	max	0	2	0	2	0	18
6		min	0	2	0	2	0	2
7	N4	max	0	2	0	2	16.792	18
8		min	0	2	0	2	-31.445	5
9	N5	max	-.288	2	9.165	5	0	2
10		min	-1.755	10	2.444	18	0	2
11	Totals:	max	0	2	18.33	5		
12		min	-3.102	10	4.888	18		

Envelope Joint Displacements

	Joint		X [in]	LC	Y [in]	LC	Rotation [rad]	LC
1	N1	max	0	18	0	18	0	2
2		min	0	5	0	5	0	2
3	N2	max	.352	18	0	18	0	2
4		min	-.156	5	-.003	5	0	13
5	N3	max	.374	10	-.033	18	0	2
6		min	0	2	-.227	5	0	18
7	N4	max	.423	10	0	18	0	5
8		min	.069	2	-.003	5	0	18
9	N5	max	0	10	0	18	0	2
10		min	0	2	0	5	0	2

Envelope Member Section Forces

	Member	Sec		Axial[k]	LC	Shear[k]	LC	Moment[k-ft]	LC
1	M1	1	max	9.165	5	1.462	18	0	2
2			min	2.444	18	-.648	5	0	2
3		2	max	9.165	5	1.462	18	2.229	5
4			min	2.444	18	-.648	5	-5.027	18
5		3	max	9.165	5	1.462	18	4.458	5
6			min	2.444	18	-.648	5	-10.053	18
7		4	max	9.165	5	1.462	18	6.687	5
8			min	2.444	18	-.648	5	-15.08	18
9		5	max	9.165	5	1.462	18	8.916	5
10			min	2.444	18	-.648	5	-20.107	18
11	M2	1	max	5.909	13	7.111	5	40.36	5
12			min	2.586	2	1.05	18	5.754	18
13		2	max	5.777	13	6.893	5	19.644	5
14			min	2.518	2	.992	18	2.734	18
15		3	max	5.644	13	6.676	5	-.114	18
16			min	2.45	2	.934	18	-.429	5
17		4	max	5.512	13	6.458	5	-2.791	18
18			min	2.381	2	.876	18	-19.859	5
19		5	max	5.38	13	6.241	5	-5.296	18
20			min	2.313	2	.818	18	-38.645	5
21	M3	1	max	5.38	13	-.818	18	-5.296	18
22			min	2.313	2	-6.241	5	-38.645	5
23		2	max	5.512	13	-.876	18	-2.791	18
24			min	2.381	2	-6.458	5	-19.859	5
25		3	max	5.644	13	-.934	18	-.114	18
26			min	2.45	2	-6.676	5	-.429	5
27		4	max	5.777	13	-.992	18	19.644	5
28			min	2.518	2	-6.893	5	2.734	18
29		5	max	5.909	13	-1.05	18	40.36	5
30			min	2.586	2	-7.111	5	5.754	18
31	M4	1	max	9.165	5	1.755	10	24.131	10
32			min	2.444	18	.288	2	3.962	2
33		2	max	9.165	5	1.755	10	18.098	10
34			min	2.444	18	.288	2	2.972	2
35		3	max	9.165	5	1.755	10	12.065	10
36			min	2.444	18	.288	2	1.981	2
37		4	max	9.165	5	1.755	10	6.033	10
38			min	2.444	18	.288	2	.991	2
39		5	max	9.165	5	1.755	10	0	2
40			min	2.444	18	.288	2	0	2

Envelope Maximum Member Section Forces

	Member		Axial[k]	Loc[ft]	LC	Shear[k]	Loc[ft]	LC	Moment[k-ft]	Loc[ft]	LC
1	M1	max	9.165	0	5	1.462	0	18	8.916	13.75	5
2		min	2.444	0	18	-.648	0	5	-20.107	13.75	18
3	M2	max	5.909	0	13	7.111	0	5	40.36	0	5
4		min	2.313	11.835	2	.818	11.835	18	-38.645	11.835	5
5	M3	max	5.909	11.835	13	-.818	0	18	40.36	11.835	5
6		min	2.313	0	2	-7.111	11.835	5	-38.645	0	5
7	M4	max	9.165	0	5	1.755	0	10	24.131	0	10
8		min	2.444	0	18	.288	0	2	0	13.75	2

Envelope Member End Reactions

	Member	Membe...		Axial[k]	LC	Shear[k]	LC	Moment[k-ft]	LC
1	M1	I	max	9.165	5	1.462	18	0	2
2			min	2.444	18	-.648	5	0	2
3		J	max	9.165	5	1.462	18	8.916	5
4			min	2.444	18	-.648	5	-20.107	18
5	M2	I	max	5.909	13	7.111	5	40.36	5
6			min	2.586	2	1.05	18	5.754	18
7		J	max	5.38	13	6.241	5	-5.296	18
8			min	2.313	2	.818	18	-38.645	5
9	M3	I	max	5.38	13	-.818	18	-5.296	18
10			min	2.313	2	-6.241	5	-38.645	5
11		J	max	5.909	13	-1.05	18	40.36	5
12			min	2.586	2	-7.111	5	5.754	18
13	M4	I	max	9.165	5	1.755	10	24.131	10
14			min	2.444	18	.288	2	3.962	2
15		J	max	9.165	5	1.755	10	0	2
16			min	2.444	18	.288	2	0	2

Envelope AISC 14th(360-10): ASD Steel Code Checks

	Member	Shape	Code Ch...	Loc[ft]	LC	Shear C...	Loc[ft]	LC	Pnc/om [k]	Pnt/om [k]	Mn/om [k-ft]	Cb	Eqn
1	M1	W8x67	- P-Delta...										
2	M2	W8x67	- P-Delta...										
3	M3	W8x67	- P-Delta...										
4	M4	W8x67	- P-Delta...										

Envelope Member Section Deflections Service

	Member	Sec		x [in]	LC	y [in]	LC	L/y' Ratio	LC
1	M1	1	max	0	2	0	2	NC	2
2			min	0	2	0	2	NC	2
3		2	max	0	18	.057	5	NC	2
4			min	0	5	-.129	18	4057.787	18
5		3	max	0	18	.107	5	NC	2
6			min	-.002	5	-.241	18	2536.117	18
7		4	max	0	18	.142	5	NC	2
8			min	-.002	5	-.321	18	2898.42	18
9		5	max	0	18	.156	5	NC	2
10			min	-.003	5	-.352	18	NC	2
11	M2	1	max	.287	18	.087	5	NC	2
12			min	-.129	5	-.204	18	NC	2
13		2	max	.287	18	.042	5	NC	18
14			min	-.13	5	-.21	18	3144.465	5
15		3	max	.287	18	-.022	2	7332.588	18
16			min	-.13	5	-.232	10	1032.51	5
17		4	max	.287	18	-.063	2	4423.407	18
18			min	-.131	5	-.271	13	620.089	5
19		5	max	.286	18	-.082	2	3718.942	18
20			min	-.131	5	-.304	13	520.143	5
21	M3	1	max	.347	10	.189	18	NC	10
22			min	.058	2	-.186	5	520.143	5
23		2	max	.347	10	.195	18	NC	10
24			min	.058	2	-.142	5	620.089	5
25		3	max	.347	10	.208	18	7546.248	18
26			min	.058	2	-.05	5	1032.51	5
27		4	max	.346	10	.228	10	7075.046	2

Envelope Member Section Deflections Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	L/y' Ratio	LC
28			min	.058	2	.019	2	813.872	13
29		5	max	.346	10	.243	10	NC	2
30			min	.058	2	.039	2	679.031	13
31	M4	1	max	.003	5	.423	10	NC	2
32			min	0	18	.069	2	NC	2
33		2	max	.002	5	.385	10	NC	2
34			min	0	18	.063	2	2415.091	10
35		3	max	.002	5	.289	10	NC	2
36			min	0	18	.048	2	2113.205	10
37		4	max	0	5	.154	10	NC	2
38			min	0	18	.025	2	3381.128	10
39		5	max	0	2	0	2	NC	2
40			min	0	2	0	2	NC	2

Envelope Beam Deflections

	Member Label	Span		Location [ft]	y' [in]	(n) L'/y' Ratio	LC
1	M2	1	max	.37	-.096	NC	13
2		1	min	11.835	-.186	1040	5
3	M3	1	max	11.465	.227	NC	13
4		1	min	0	-.186	1040	5

Envelope Beam Deflection Checks

	Be...	Design Rule	Span	Defl [in]	Ratio	LC	Defl [in]	Ratio	LC	Defl [in]	Ratio	LC
1	M2	Typical	1	N/A	N/A	N/A	-.121	2340	2(DL)	N/A	N/A	N/A
2	M3	Typical	1	N/A	N/A	N/A	-.121	2340	2(DL)	N/A	N/A	N/A

BUILDING PERMIT PLANS FOR

3453 74TH AVE W

FOR JIMMY & SHANNON FOO

VERTICAL DATUM, BENCHMARK & CONTOUR INTERVAL

ELEVATIONS SHOWN ON THIS DRAWING WERE DERIVED FROM INFORMATION PROVIDED BY WCCS SURVEY CONTROL DATABASE.

POINT ID NO. 238

ELEVATION: 324.56 FEET (98.926 METERS) NAVD88

2" BRASS CAP IN MONUMENT CASE AT THE INTERSECTION OF SE 32ND ST & 74TH AVE SE

2.0' CONTOUR INTERVAL – THE EXPECTED VERTICAL ACCURACY IS EQUAL TO 1/2 THE CONTOUR INTERVAL OR PLUS / MINUS 1.0' FOR THIS PROJECT.

BASIS OF BEARING

HELD RECORD OF SURVEY BY MS WEBB SURVEYING AS RECORDED IN VOLUME 135 OF SURVEYS, PAGE 243, RECORDS OF KING COUNTY, WASHINGTON AND RECORDED UNDER RECORDING NUMBER 200000215900011. ACCEPTED A BEARING OF N 90°00'00" W FOR THE CENTERLINE OF SE 32ND STREET BASED ON FOUND MOUNUMENTS IN CASE.

SURVEY NOTES

THIS SURVEY WAS COMPLETED WITHOUT BENEFIT OF A CURRENT TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST ON THIS PROPERTY THAT ARE NOT SHOWN HEREON.

INSTRUMENTATION FOR THIS SURVEY WAS A 3-SECOND NIKON NIVO 5.C TOTAL STATION. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET BY WAC 332-130-090.

THE INFORMATION ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE IN JUNE 2018 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

UTILITIES SHOWN ON THIS SURVEY ARE BASED UPON ABOVE GROUND OBSERVATIONS AND AS-BUILT PLANS WHERE AVAILABLE. ACTUAL LOCATIONS OF UNDERGROUND UTILITIES MAY VARY AND UTILITIES NOT SHOWN ON THIS SURVEY MAY EXIST ON THIS SITE.

ALL MONUMENTS WERE LOCATED DURING THIS SURVEY UNLESS OTHERWISE NOTED.

LEGAL DESCRIPTION

PARCEL: 130030-1965
LOTS 16 THROUGH 20 AND THE EAST 15 FEET OF LOTS 21 THROUGH 25, BLOCK 7, C.C. CALKINS FIRST ADDITION TO EAST SEATTLE, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 4 OF PLATS, PAGE 88, RECORDS OF KING COUNTY, WASHINGTON; TOGETHER WITH THE WEST HALF OF VACATED 74TH PLACE SE LYING NORTH OF THE SOUTH MARGIN OF SAID PLAT AND SOUTH OF THE EASTERLY EXTENSION OF THE NORTH LINE OF SAID LOT 16, AND TOGETHER WITH THAT PORTION OF VACATED SE 36TH STREET, LYING WITHIN SAID PLAT AND WEST OF THE CENTERLINE OF 74TH PLACE SE AND EAST OF THE SOUTHERLY EXTENSION OF THE WEST LINE OF SAID LOT 20.

SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.

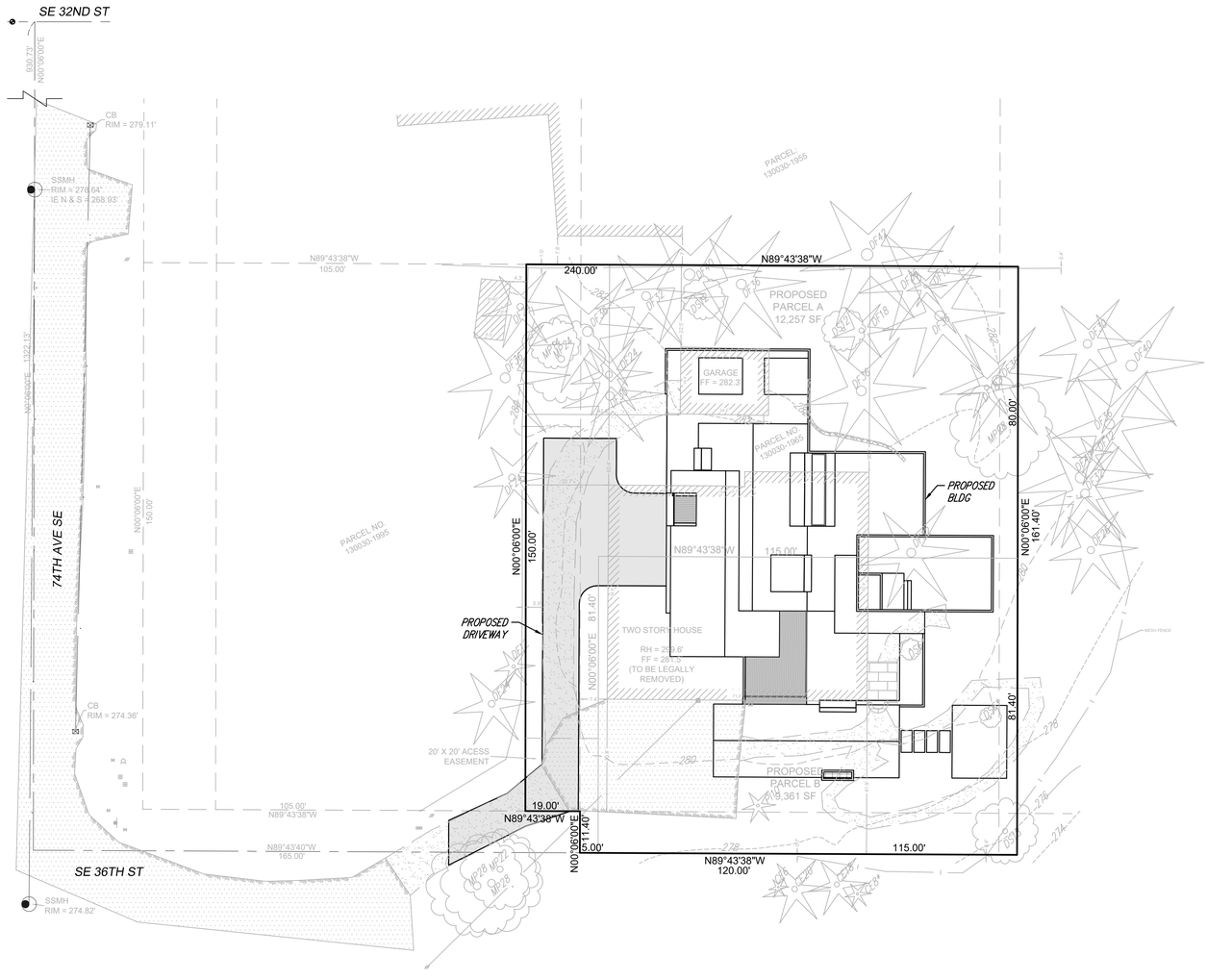
SITE STATISTICS

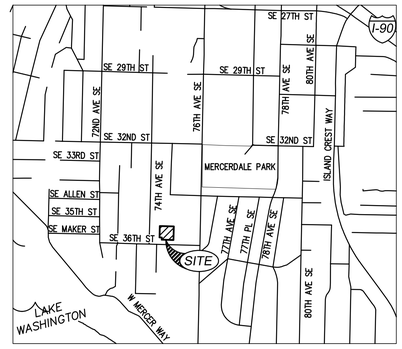
ZONING:	R-8.4 (RESIDENTIAL-SINGLE FAMILY
SITE AREA:	21,618 SF (±0.496 ACRES)
TAX PARCEL:	130030-1965
LOT SLOPE STATISTICS:	XX%

LEGEND

EXISTING

- FOUND MONUMENT AS DESCRIBED
- FOUND REBAR AS DESCRIBED
- TACK IN LEAD FOUND
- SET 5/8" X 24" IRON ROD W/1" YELLOW PLASTIC CAP
- POWER METER
- UTILITY POLE
- GAS METER
- SANITARY SEWER MANHOLE
- WATER VALVE
- FIRE HYDRANT
- WATER METER
- SIGN
- SS — APPROXIMATE LOCATION SANITARY SEWER LINE
- SD — APPROXIMATE LOCATION STORM DRAIN LINE
- OHP — OVERHEAD POWER
- OHU — OVERHEAD UTILITIES
- X — CHAINLINK FENCE
- WOOD FENCE
- CONCRETE WALL
- ROCKERY
- ASPHALT SURFACE
- GRAVEL SURFACE
- SQ SEQUOIA
- CE CEDAR
- DF DOUGLAS FIR
- HE HEMLOCK
- MP MAPLE
- PI PINE
- SP SPRUCE
- DS DECIDUOUS
- * DENOTES MULTI-TRUNK





VICINITY MAP
SCALE: 1:1000

SCALE: 1" = 20'
0 10 20 40

OWNER:

JIMMY & SHANNON FOO
2820 29TH AVE W
SEATTLE, WA 98199
CONTACT: SHANNON FOO
PHONE: (306) 613-5505

ENGINEER

CORE DESIGN INC
12100 NE 195TH ST, SUITE 300
BOTHELL, WASHINGTON 98011
(425) 885-7877
CONTACT: MICHAEL A. MOODY, P.E.

SURVEY:

SITE SURVEYING INC
21923 NE 11TH ST
SAMMAMISH, WASHINGTON 98074
(425) 298-4412

SHEET INDEX

UNDERGROUND LOCATOR SERVICE
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PERMIT #XXXX-XXX

NO.	REVISIONS	DATE

6-10-20

CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
PLANNING
SURVEYING

CORE DESIGN

12100 NE 195th St, Suite 300 Bothell, Washington 98011 425.885.7877

SITE PLAN
3453 74TH AVE SE

JIMMY & SHANNON FOO
2820 29TH AVE W
SEATTLE, WA 98199

DATE	SEE STAMP DATE
DESIGNED	FLAVIO R. BAINOTTI
DRAWN	MARY MOORE
APPROVED	MICHAEL A. MOODY, PE
	JOSHUA BEARD — PROJECT MANAGER

SHEET	OF
C1.01	4

PROJECT NUMBER
20034

N

W E

S

GRAPHIC SCALE

5 0 5 10 20

1INCH = 10 FT.

FOUND REBAR & CAP W/ TACK (20764) 0.10' N & 0.14' W

FOUND 1" IRON PIPE 0.17' S & 0.03' W

PARCEL: 1300392-1955

FOUND 1" IRON PIPE 0.33' S & 0.04' E

N89°43'38"W 105.00'

N89°43'38"W 135.00'

N00°06'00"E 1322.13'

N00°06'00"E 150.00'

N00°06'00"E 150.00'

N00°06'00"E 161.40'

N00°06'00"E 11.40'

N89°43'38"W 105.00'

N89°43'38"W 15.00'

N89°43'38"W 120.00'

N89°43'40"W 165.00'

GARAGE
FF = 280.3'

GARAGE
FF = 282.3'

SHED

ONE STORY HOUSE
RH = 289.6'
FF = 279.7'

TWO STORY HOUSE
RH = 299.6'
FF = 281.5'

ROOF OVERHANG

CB
RIM = 274.36'
IE 8" W = 272.96'

SSMH
RIM = 274.82'
cc = 265.92'

SET REBAR & CAP (38964)

FOUND 1" IRON PIPE 0.07' S & 0.12' W

FOUND 1" IRON PIPE 0.07' S & 0.06' W

FOUND 1" IRON PIPE 0.11' S & 0.16' W

OHP OHU SS

NE 1/4, SW 1/4, SEC 12, TWP 24N, RNG 4E, W.M.

TOPOGRAPHIC SURVEY

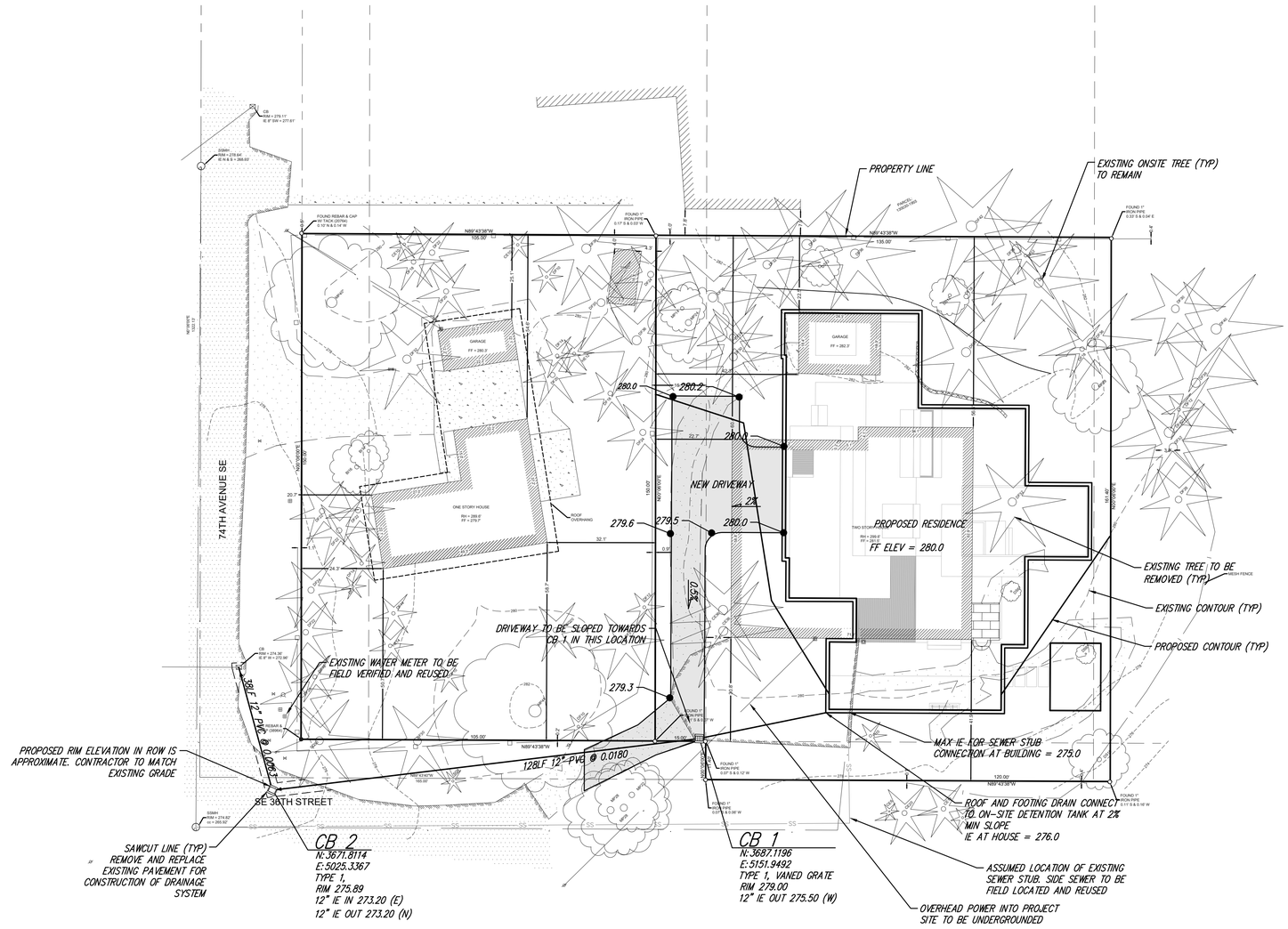
DAVID ARMITAGE
3450 & 3453 74TH AVENUE SE
MERCER ISLAND, WA 98040

DATE	REVISION	DRN

PROJECT NO.	18-243
DRAWN BY:	EFJ
CHECKED BY:	TNW
DATE:	6/14/18
SHEET	1 OF 1

THOMAS N. WOLDENDORP STATE OF WASHINGTON 38964 REGISTERED PROFESSIONAL LAND SURVEYOR

Site Surveying, Inc.
www.sitesurveymapping.com 21923 NE 11th Street Sammamish, WA 98074 Phone: 425.298.42



SCALE: 1" = 10'

0 5 10 20

LOT COVERAGE PROPOSED

LOT	21,618 SQ.FT.	ROOF AREA=	7,467 SQ.FT.
FOOTPRINT =	7,467 SQ.FT.	DRIVE / WALK =	1,979 SQ.FT.
PERCENT LOT COVERAGE =	34.5%	TOTAL IMPERVIOUS =	9,446 SQ.FT.
		PROPOSED IMPERVIOUS =	43.7%

NOTES

1. SEE PSE PLANS FOR LOCATION OF UTILITIES. PROPOSED DRY UTILITIES WILL BE BURIED.
2. EXISTING SEWER AND WATER CONNECTION TO BE FIELD LOCATED AND REUSED

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MICHAEL A. MOODY REGISTERED PROFESSIONAL ENGINEER STATE OF WASHINGTON 19981

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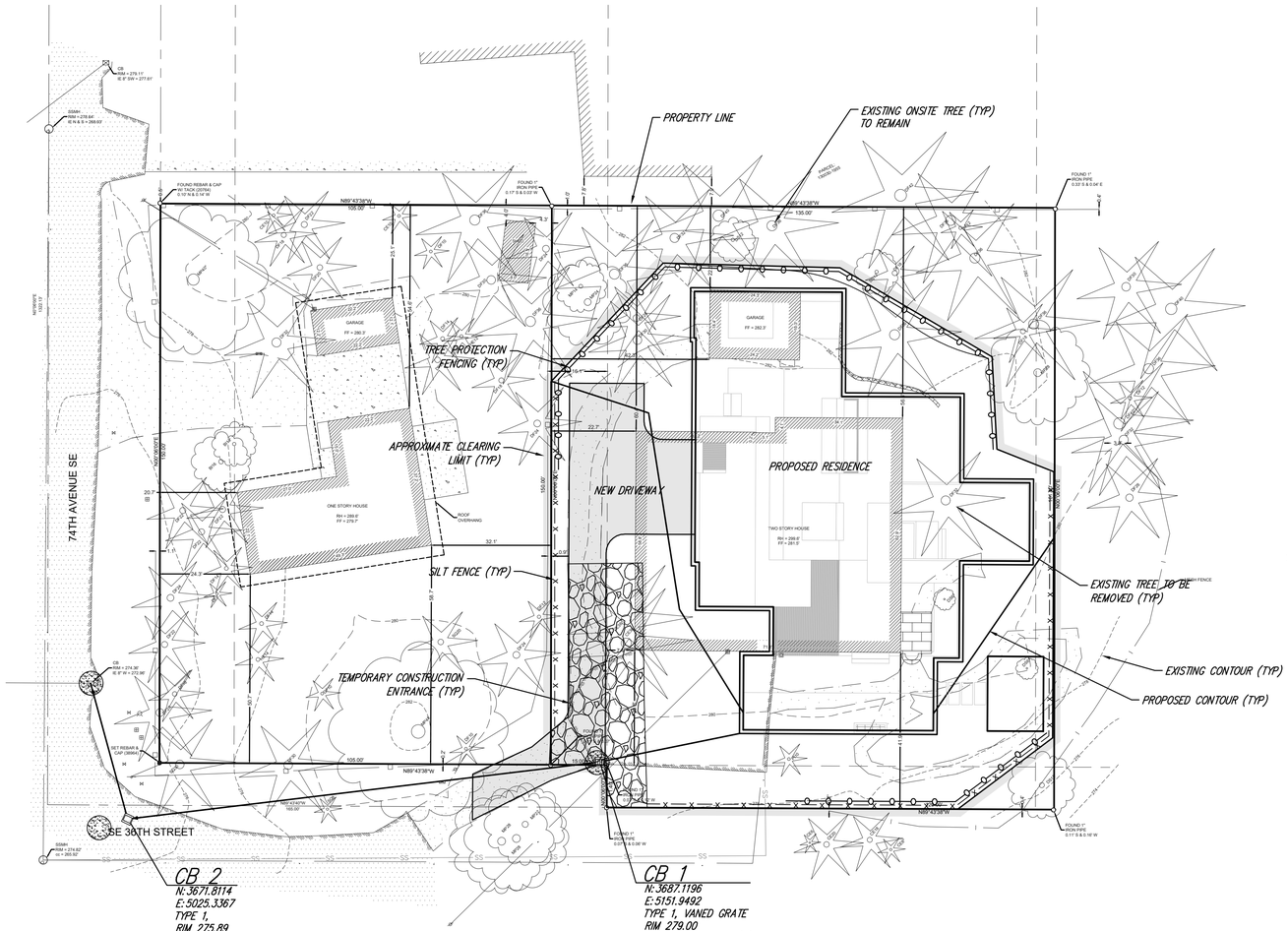

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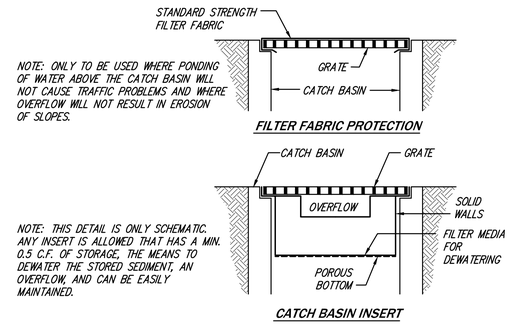
0 5 10 20



NOTE: ONLY TO BE USED WHERE PONDING OF WATER ABOVE THE CATCH BASIN WILL NOT CAUSE TRAFFIC PROBLEMS AND WHERE OVERFLOW WILL NOT RESULT IN EROSION OF SLOPES.

FILTER FABRIC PROTECTION

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

Maintenance Standards

1. ANY ACCUMULATED SEDIMENT ON OR AROUND THE FILTER FABRIC 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.
2. ANY SEDIMENT IN THE CATCH BASIN INSERT SHALL BE REMOVED WHEN THE SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE. THE FILTER MEDIA FOR THE INSERT SHALL BE CLEANED OR REPLACED AT LEAST MONTHLY.
3. REGULAR MAINTENANCE IS CRITICAL FOR BOTH FORMS OF CATCH BASIN PROTECTION. UNLIKE MANY FORMS OF PROTECTION THAT FAIL GRADUALLY, CATCH BASIN PROTECTION WILL FAIL SUDDENLY AND COMPLETELY IF NOT MAINTAINED PROPERLY.

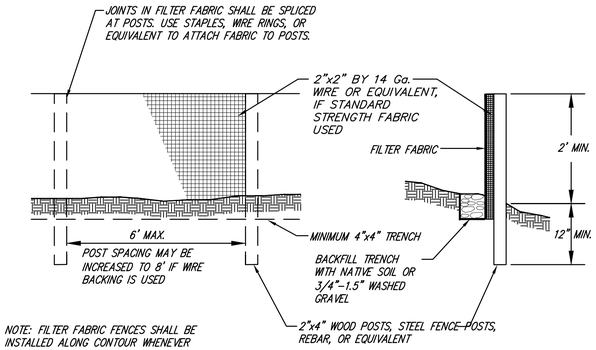
FILTER FABRIC PROTECTION FOR CB's

NO SCALE

LEGEND

SEE SHEET C2.31 FOR DETAILS, NOTES AND CONSTRUCTION SEQUENCE.

- INLET FILTER (W.S.D.O.T. STD. DTL. I-40.20-00)
- FILTER FABRIC FENCE — x — x —
- CONSTRUCTION ACCESS
- CLEARING LIMITS
- EXISTING CONTOUR 110
- PROPOSED CONTOUR 110
- EX TREE TO BE REMOVED



NOTE: FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE

FILTER FABRIC FENCE DETAIL

NO SCALE

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MICHAEL A. MOODY — STATE OF WASHINGTON — 19981 — REGISTERED PROFESSIONAL ENGINEER

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