

MDT ENGINEERING

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Structural Calculations
For Mawer/Baze-Inoguchi
2723 72nd Ave. SE
Mercer Island, WA 98040

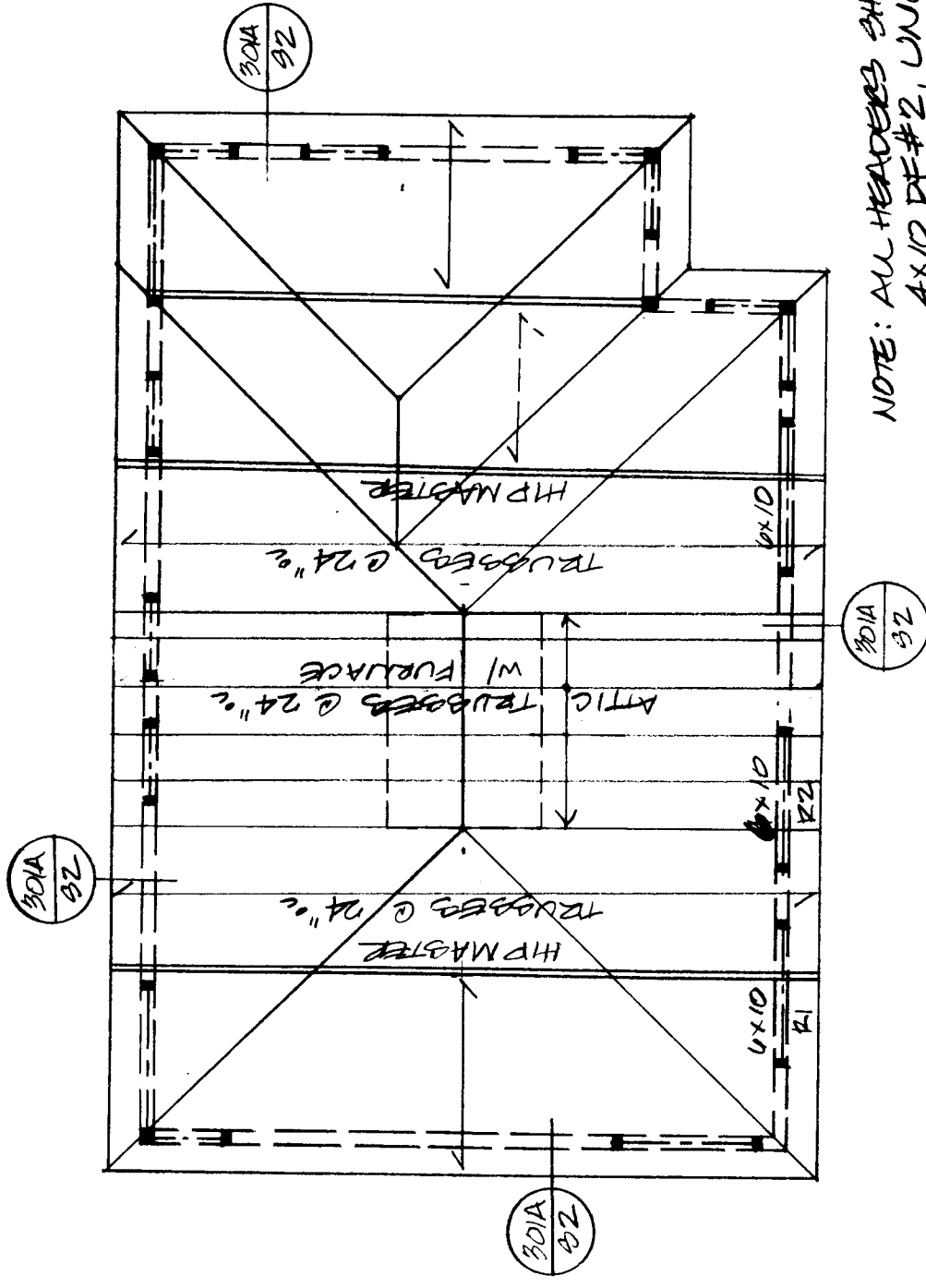
June 25, 2020

REVISED 8/26/20
REVISED 1/7/21



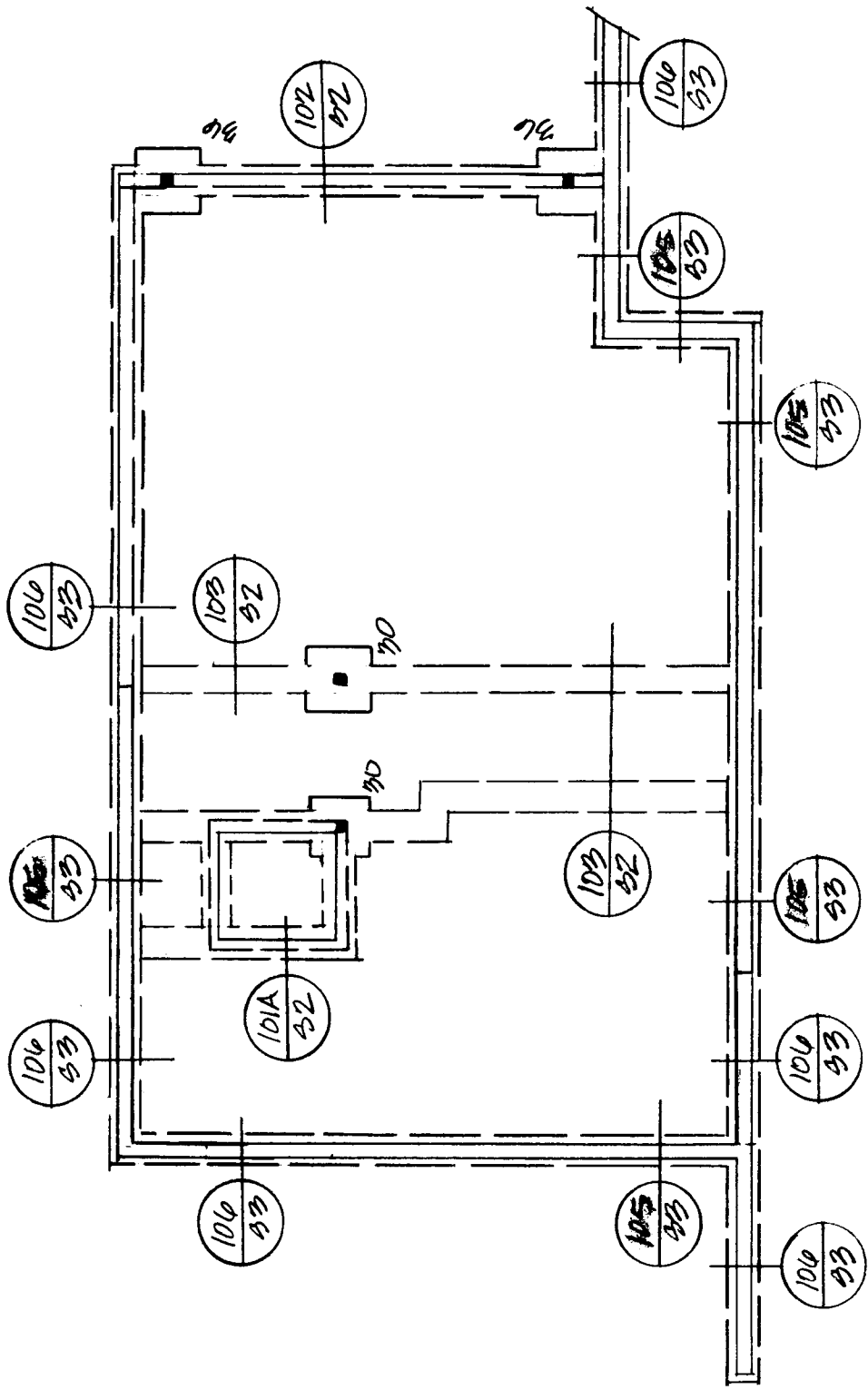
Building Official: Please accept this engineering packet only for the site noted above.

MANER/BAZE
1/7/21



NOTE: ALL HEADERS SHALL BE
4X10 DF #2, UNO.

ROOF FRAMING PLAN
1/8" = 1'-0"



FOUNDATION PLAN
1/8" = 1'-0"

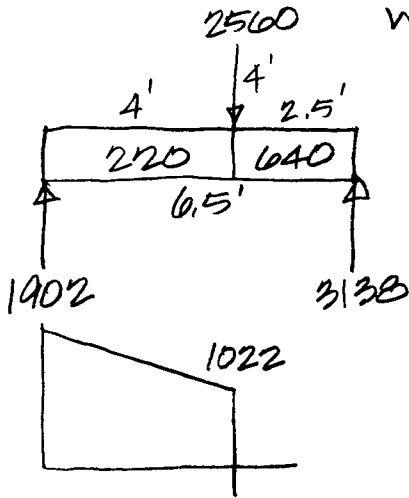
MANER/BASE/ROOF

6/20
REV. 1/7/21

R1 $l = 6.5'$ $W = 5.5(40) = 220 \text{ PLF } 0-4'$

$P = 4(40)(10) = 2560 \# @ 4'$

$W = 10(40) = 640 \text{ PLF } 4-6.5'$



$M = 5848 \text{ l-}\#$

$R = 3138 \#$

$S_{REQ} = 70$

$A_{REQ} = 41$

6x10
DF#2

R2 $l = 6.5'$ $W = 10(40) = 640 \text{ PLF} + 3.5(125) = 1078 \text{ PLF}$

$M = 3380 \text{ l-}\#$
~~5091 l-#~~

$R = 2080 \#$
~~3503~~

$S_{REQ} = 4068$

$A_{REQ} = 2241$

10x10
~~#10~~
DF#2

R3 $l = 10'$ $W = 5.5(40) = 220 \text{ PLF}$

$M = 2750 \text{ l-}\#$

$R = 1100 \#$

$S_{REQ} = 33$

$A_{REQ} = 13$

6x8
DF#2