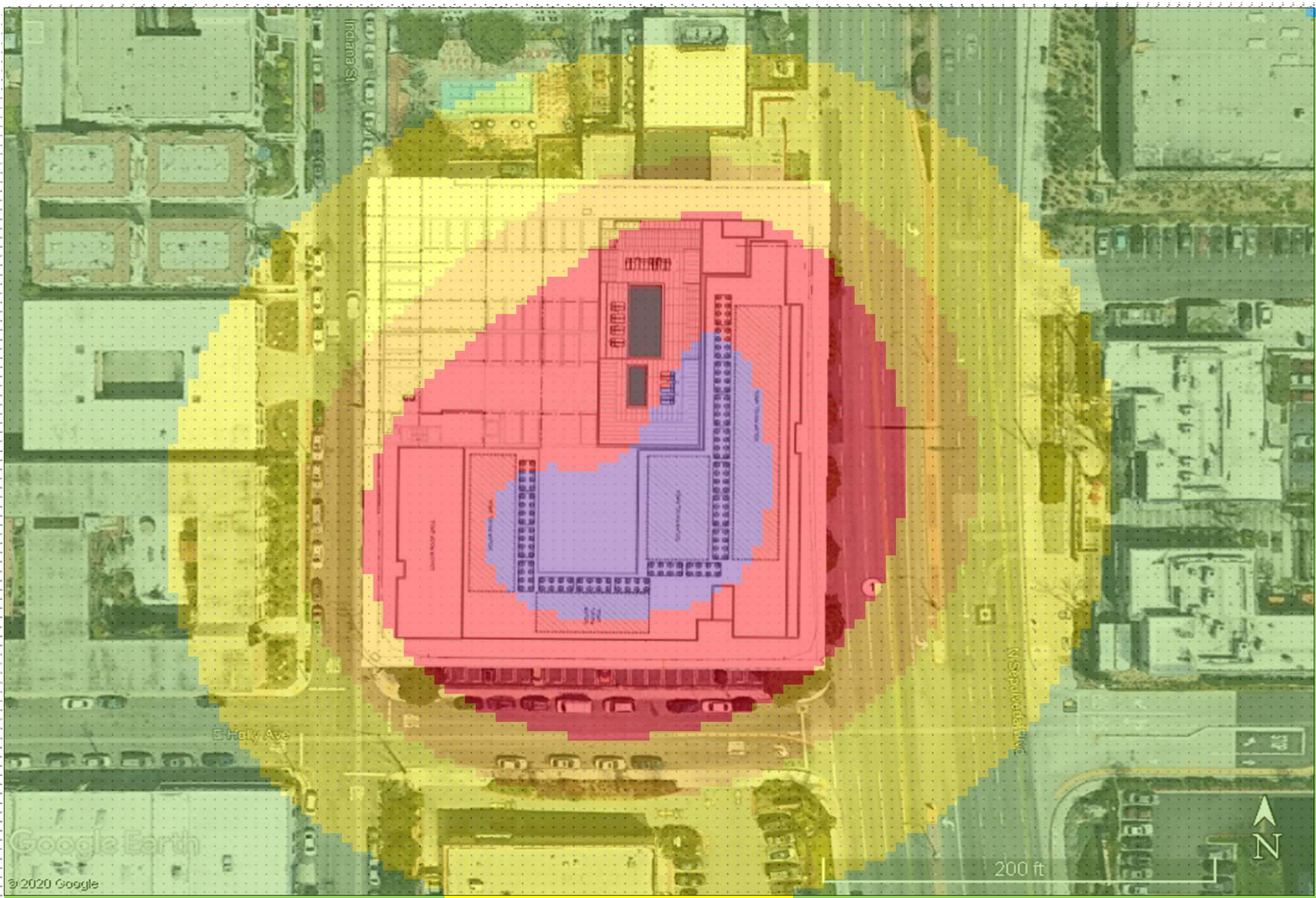


Appendix H-3

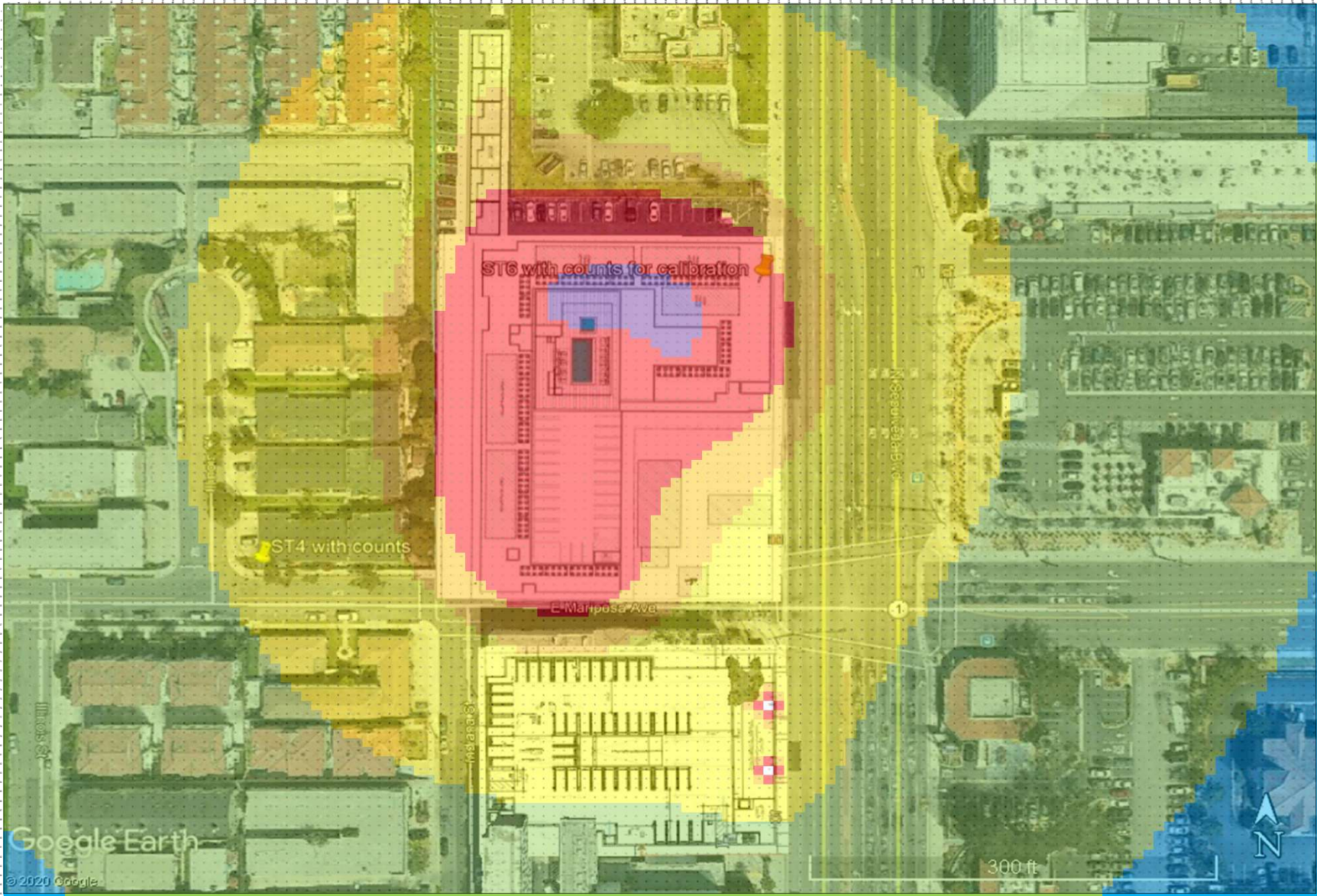
Stationary Operations Noise Modeling



dBA range

Color	High	Low	Color	High	Low
70	65	58	55	50	40
65	60	55	45		
60	58	45			

Pacific Coast Commons- Stationary Operations Noise Model Output



Color

dBA range		Color	
High	Low	High	Low
70	65	60	55
65	62	55	50
62	60	50	45

Definition of Terms (all are in feet)

$hd_{source-receiver}$	= horizontal distance between noise source and receiver	$td_{source-receiver}$	= "true" distance (point-to-point vector) between noise source and receiver	h_{roof}	= height of building roof above grade
$hd_{wall-receiver}$	= horizontal distance between wall (top of barrier) and receiver	$td_{source-wall}$	= "true" distance between source and wall	h_{equip}	= height of equipment sound source, relative to bottom of equipment base (sitting on roof)
$hd_{source-wall}$	= horizontal distance between source and wall	$td_{wall-receiver}$	= "true" distance between wall and receiver	h_{source}	= height of average sound source above ground surface, relative to receiver elevation
hd_{wall}	= effective horizontal width of wall			h_{wall}	= height of wall, relative to receiver position ground elevation
				$h_{receiver}$	= height of listener above ground surface at receiver position

barrier from Bies & Hansen (2nd ed., p. 328-329)

HVAC	HVAC Unit Tag	Source PWL	$hd_{source-receiver}$	$hd_{wall-receiver}$	$hd_{source-wall}$	h_{roof}	h_{equip}	h_{source}	h_{wall}	$h_{receiver}$	hd_{wall} (thickness)	$td_{source-receiver}$	$td_{source-wall}$	$td_{wall-receiver}$	path length diff (z)	Fresnel Number at 1kHz (assumes line of sight blocked between source and receiver)	Does line of sight (LOS) occur?	Estimated barrier insertion Loss (IL) in dBA	Distance Attenuation (dB)	Resulting SPL (dBA)
Goodman ACC	1	72	108	70	38	66	3	69.0	72	15	0.25	120.7	38	90	7.9	14.0		22	30	12
Goodman ACC	2	72	108	70	38	66	3	69.0	72	15	0.25	120.7	38	90	7.9	14.0		22	30	12
Goodman ACC	3	72	108	70	38	66	3	69.0	72	15	0.25	120.7	38	90	7.9	14.0		22	30	12
Goodman ACC	4	72	108	70	38	66	3	69.0	72	15	0.25	120.7	38	90	7.9	14.0		22	30	12
Goodman ACC	5	72	108	70	38	66	3	69.0	72	15	0.25	120.7	38	90	7.9	14.0		22	30	12
Goodman ACC	6	72	108	70	38	66	3	69.0	72	15	0.25	120.7	38	90	7.9	14.0		22	30	12
Goodman ACC	7	72	108	70	38	66	3	69.0	72	15	0.25	120.7	38	90	7.9	14.0		22	30	12
Goodman ACC	8	72	108	70	38	66	3	69.0	72	15	0.25	120.7	38	90	7.9	14.0		22	30	12
Goodman ACC	9	72	108	70	38	66	3	69.0	72	15	0.25	120.7	38	90	7.9	14.0		22	30	12
Goodman ACC	10	72	108	70	38	66	3	69.0	72	15	0.25	120.7	38	90	7.9	14.0		22	30	12
aggregate sound pressure level (SPL) at the receptor:																			22	

