DESIGNING DECADES

SAMANTHA BAIERL

M A Y 2 0 1 7 FARGO, NORTH DAKOTA

A DESIGN THESIS SUBMITTED TO THE DEPARTMENT OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE NORTH DAKOTA STATE UNIVERSITY

BY SAMANTHA J BAIERL

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF MASTERS OF ARCHITECTURE

PRIMARY

THESIS ADVISOR

CHAIR THESIS COMMITTEE

ABLE OF CONTENTS:

LISTS OF TABLES AND FIGURES

J S E R S
R E S I D E N T
W O R K E R
/ I S I T O R
C O M M U N I T Y

SITE
LOCATION
WIND ROSE
GRAND PLAZA
SUN STUDY
WEATHER
PATTERNS
SUSTAINABLE
STRATEGIES

RESEARCH S I T E N E E D S PROGRAMMING P R O C E S S A B S T R A C T

RESEARCH

46

DESIGN

NARRATIVE JUSTIFICATION EMPHASIS TYPOLOGY

PLAN FOR PROCEEDING METHODOLOGY DOCUMENTATION

) _ N

F I N A L
B O A R D S /
D I S P L A Y
B I O

G O A L S PROFESSIONAL A C A D E M I C P E R S O N A L

PROGRAM
FUNCTION
FOR MECONOMY
TIMESPACE
LISTS/
CONCEPT
LANDUSE

52

THESIS

GOALL

TYPOLOGY

JUSTIFICATION

84
REFERENCES

LISTS OF TABLES AND FIGURES

FIGURE 1	PAGE 8: PROFESSIONAL GOALS	FIGURE 10 PAGE 24: WOODLAND HILLS - DOUGLAS	FIGURE 17 PAGE 28: MARYVILL NURSING HOME ENTRY -	FIGURE 24 PAGE 35: SPACE LIST CONCEPT	FIGURE 32 PAGE 43: SUSTAINABLE STRATEGY - BIKE ROUTE	FIGURE 38 PAGE 46: ADA WASH ROOM
FIGURE 2	PAGE 9: USER TYPE 1	FIGURE 11 PAGE 24: WOODLAND HILLS -	CORREDOR FIGURE 18 PAGE 29:	FIGURE 25 PAGE 39: WASHINGTON - KING	FIGURE 33 PAGE 44: SUSTAINABLE	FIGURE 39 PAGE 46: ADA HALLWAY
FIGURE 3	PAGE 10: USER TYPE 2	SPRUCE	ST. BRIEUC'S ESTABLISHMENT	COUNTY FIGURE 26 PAGE 39:	STRATEGY - SHADING DEVICE	FIGURE 40 PAGE 47:
FIGURE 4	PAGE 10: USER TYPE 3	FIGURE 12 PAGE 24: WOODLAND HILLS - HICKORY	FIGURE 19 PAGE 30: ST. BRIEUC'S ESTABLISHMENT GROUNDS	LAKE SAMMAMISH + ISSAQUAH	FIGURE 34 PAGE 44: SUSTAINABLE STRATEGY -	SCHEDULE
FIGURE 5	PAGE 14: SOCIAL INTERACTION	FIGURE 13 PAGE 25: WOODLAND HILLS	FIGURE 20 PAGE 30: ST. BRIEUC'S ESTABLISHMENT	FIGURE 27 PAGE 40: ISSAQUAH HIGHLANDS MAP	LEED CERTIFICATION FIGURE 35 PAGE 44:	
FIGURE 6	PAGE 16: GROUP ACTIVITY	GROUNDS FIGURE 14 PAGE 25: WOODLAND	- INTERIOR FIGURE 21 PAGE 33: SPACE LIST -	FIGURE 28 PAGE 40: SEATTLE WIND	SUSTAINABLE STRATEGY - RAIN WATER COLLECTION	
FIGURE 7	PAGE 17: COMMUNITY GARDENING	HILLS WELL NESS CENTER	CHART	ROSE	FIGURE 37 PAGE 44: SUSTAINABLE	
FIGURE 8	PAGE: 23: WOODLAND	FIGURE 15 PAGE 27: MARYVILL NURSING HOME ENTRY	FIGURE 22 PAGE 34: LAND USE CHART	FIGURE 29 PAGE 41: SITE - WEST VIEW	STRATEGY - GREEN ELEMENTS	
FIGURE 9	PAGE: 24:	FIGURE 16 PAGE 28: MARYVILL	FIGURE 23 PAGE 35: SPACE LIST	FIGURE 30 PAGE 41: SUN STUDY	FIGURE 38 PAGE 44: SUSTAINABLE STRATEGY -	
	WOODLAND HILL FLOOR PLAN - ASH	L FLOOR HOME ENTRY -	DIAGRAM	FIGURE 31 PAGE 42: WEATHER PATTERN	CAR CHARGING STATION	

CHART

BSTRACT:

HIS THESIS EXPLORES HOW THE PHYSICAL ENVIRONMENT, THROUGH SPACES AND THEIR CONNECTIONS, CAN POSITIVE-LY IMPACT THE OVERALL WELLNESS AND PRODUCTIVITY OF SENIOR CITIZENS. THIS THESIS AIMS TO PROVE THE LEVEL OF ENGAGEMENT THAT SENIORS PARTICIPATE IN CAN BE AFFECT-ED BY THE COMMUNITY AND ACCESSIBILITY LEVELS THEY ARE PROVIDED WITH AND THIS IN TURN CAN IN TURN AFFECT THEIR QUALITY OF LIVE. THE TYPOLOGY OF THIS THESIS IS A SENIOR LIVING FACILITY THAT ALSO PROVIDES SPACES THAT ARE OPEN TO THE COMMUNITY FOR ACTIVITIES, PROGRAMS, AND CLASSES AS WELL. THE SITE IS LOCATED IN THE ISSAQUAH HIGHLANDS ON THE WESTERN SIDE OF RAINY AND MOUNTAINOUS WASHINGTON STATE. THE SITE IS ON THE OUTSKIRTS OF TOWN, ASSIGNED TO THE FUTURE DEVELOPMENT AREA, BUT IS CONVENIENTLY LOCAT-ED NEAR EVERYDAY AMENITIES LIKE GROCERY STORES, BANKS, HEALTH CLUBS, AND THE HOSPITAL. ISSAQUAH HIGHLANDS HAS THE INFRASTRUCTURE TO SUPPORT THIS THESIS WHILE THE THESIS ITSELF WILL ADD AN ELEMENT THE TOWN IS IN NEED OF. THIS SITE ITSELF IS FAIRLY VACANT WITH LOW GROW SHRUBBERY AND A FEW TREES THEREFORE NO EXISTING STRUCTURES WILL BE DISTURBED OR TAKEN AWAY. WITH MOUNTAINS, EVERGREENS, AND LAKE SAMMAMAISH AS THE VISTAS THE SITE IS SURROUND-ED BY NATURE WHILE HAVING THE CONVENIENCE BEING RIGHT IN A TOWN THAT WAS NEWLY DESIGNED FOR WALK-ABILI-TY. THE JUSTIFICATION FOR THIS THESIS IS DRIVEN BY THE FACT THAT THERE IS A HUGE DEMAND FOR SENIOR HOUS-ING WITH THE BABY BOOMER POPULATION QUICKLY RIS-ING AND REACHING THE AGES WHERE ALTERNATIVE HOUS-ING OPTIONS ARE NECESSARY. LIKEWISE, THE IDEA OF SENIOR HOUSING AFFECTS EVERYONE WHETHER IT BE A RELATIVE OR FAMILY FRIEND, ONE DAY MOST WILL BE FACED WITH THE DE-CISION TO MOVE TO A FACILITY THAT CAN PROVIDE ADEQUATE CARE. THEREFORE THE CON-CEPT OF SENIOR LIV-ING HAS ROOM FOR IMPROVE IMENT THAT CAN BEENHANCED BY THE CONCEPT OF THESIS DE-SIGN THROUGH ACCESSIBILITY.

COMMUNITY AND GREEN ELEMENTS. THIS THESIS WILL CATER TO THE SENIORS 65 AND OLDER OF THE ISSAQUAH AREA THAT ARE ING AND APPLY IT TO THE DE-IN NEED OF AN ALTERNATIVE SIGN. THIS THESIS WILL BE HOUSING OPTION, OR ASSIST- CONTINUOUSLY DOCUMENTED ED CARE BECAUSE THEIR CUR-RENT LIVING SITUATION IS IN-ADEQUATE FOR SOME REASON INGS, COMPUTER MODELS, OR ANOTHER. ALONG WITH PHYSICAL MODELS, ETC. THE THE RESIDENTS COMES THEIR FAMILIES AND FRIENDS THAT VISIT AND EXPERIENCE THE DE-SIGN ALONG WITH SUPPORT-ING PROGRAMS OF THE COM-MUNITY THAT PARTICIPATE AND ENGAGE WITH THE SPAC-ES PROVIDED THAT ARE SUP-PORTED BY THIS THE SIS DE-SIGN. THE RESEARCH ON THIS THESIS'S TYPOLOGY, CONTEXT, SUSTAINABLE STRATEGIES, AND THE AGING COMMUNITY BE MADE AVAILABLE TO THE

ENGAGEMENT, WILL BE ONGOING THROUGH-OUT THE PROJECTS DEVELOP-MENT TO PROVIDE FURTHER INSIGHT AND UNDERSTAND-UNTIL FINAL COMPLETION BY MEANS OF SKETCHES, WRIT-END PRODUCT WILL BE A COL-LECTION OF THE MOST IM-PORTANT INFORMATION PRE-SENTED GRAPHICALLY UPON **BOARDS ALONG WITH A PHYS-**ICAL CONTEXT MODEL WITH THE BUILDING MODEL AS A FINAL DISPLAY ALONG WITH A COMPLETED VERSION OF THIS BOOK IN DIGITAL FORMAT. A DIGITAL COPY OF THE FINAL THESIS PROJECT WILL THEN

UNIVERSITY AS A RECORD OF COMPLETION AND FOR VIEW-ING BY STAFF AND STUDENTS.

ARRATIVE:

THESIS THESIS STATEMENT

BECAUSE THE CURRENT CONCEPT OF SENIOR LIVING PROVIDES FOR BASIC HUMAN NEEDS THEY CAN LACK CONNECTIVITY IN CERTAIN ASPECTS INCLUDING EL-EMENTS LIKE PROGRAMMING WITHIN THE COMMU-NITY AND EXPOSURE AND ENGAGEMENT TO NATURE WHILE MANY TIMES THIS CAN LEAD TO A DECLINE IN HEALTH BOTH PHYSICALLY AND MENTALLY. IN CRE-ATING A SENIOR LIVING FACILITY THAT CONSIDERS A HOLISTIC APPROACH INTO NOT ONLY DAILY LIVES OF SENIORS BUT CONSIDERS THEIR MENTAL AND PHYS-ICAL STATE BY FOCUSING ON ACCESSIBILITY. COM-MUNITY, AND NATURE THIS CAN PROVIDE OPPORTU-NITY THAT CURRENT SENIOR LIVING FACILITIES LACK.

JUSTIFICATION

THE IMPORTANCE HOLDS IN THE FACT THAT EVERYONE AGES THIS THESIS EMPHASIZES AND MOST WOULD AGREE THAT THE LIFESTYLE CHOICES AND HOW CONNECTING PHYSI-HABITS THROUGHOUT ONES LIFE, EXPECIALLY DURING ONES SE- CAL SPACES CAN CREATE A NIOR YEARS, CAN GREATLY HOLD A CORRELATION TO THE PRO- PRODUCTIVE, SAFE, AND EN-DUCTIVITY LEVEL AND QUALITY OF LIFE. AT SOME POINT MOST GAGING ENVIRONMENT FOR SENIORS HAVE TO DEAL WITH THE FACT THAT THEIR CURRENT SENIORS. ELEMENTS INCLUD-LIVING SITUATION IS UNMANAGEABLE FOR SOME REASON OR ING ACCESSIBILITY, COMMU-ANOTHER WHETHER IT BE TOO LARGE TO MAINTAIN OR IT IS NOT NITY, AND NATURE WILL BE HANDICAP ACCESSIBLE. THEREFORE, NOW MORE THAN EVER USED TO FURTHER EXPLORE WITH THE BABY BOOMERS REACHING SENIOR AGES THE DE- HOW THIS THESIS CAN PRO-MAND FOR SENIOR HOUSING OPTIONS ARE IMPORTANT. OVER VIDE AND ACCOMMODATE FOR THE YEARS THE SENIOR HOUSING OPTIONS HAVE BEEN REDE- THE DESIRED OUTCOME OF A FINED FOR THE BETTER BUT THERE IS STILL ROOM FOR IMPROVE- HEALTHY AND INSPIRING SE-MENT IN THE WAY THAT SENIOR HOUSING CAN BE DEFINED. NIOR LIVING FACILITY THAT

PROJECT EMPHASIS

PROMOTES OVERALL WELL-NESS TO ITS RESIDENTS, STAFF, VISITORS, AND COMMUNITY.

TYPOLOGY

THIS THESIS BUILDING PRO-VIDES RESIDENTS FOR INDE-PENDENT SENIORS AND SE-NIORS THAT NEED MINIMAL ASSISTANCE. ALONG WITH RESIDENTIAL PART OF THE BUILDING THERE ARE MUL-TIPLE SPACES, AMENITIES, THAT OFFER CONVENIENC-ES LIKE A WELLNESS CEN-TER, A REC ROOM, A KITCHEN, GARDENS, AND MORE. ALL THE SPACES THAT ARE NOT STRICTLY FOR LIVING ARE FOR THE RESIDENTS FIRST-LY BUT ARE OPENED TO THE COMMUNITY FOR PROGRAMS.

GOALS:

FOR ANY TYPE OF PROJECT IT IS ONLY PROPER TO SET SPECIFIC GOALS FOR ONESELF. THEREFORE, THROUGHOUT THIS DESIGN THESIS CERTAIN GOALS ARE SET TO PROVIDE GUIDANCE INTO THE DESIRED OUTCOME IN REGARDS TO THE ACADEMIC, PERSON-AL. AND PROFESSIONAL CATEGORIES.



PROFESSIONAL

THE OVERALL PROCESS OF THIS THESIS WILL OFFER PREPARA- OVER THE LAST FOUR YEARS I TION FOR THE PROFESSIONAL WORLD. LOOKING INTO ALL OF THE HAVE STUDIED AND DESIGNED ASPECTS FROM THE FIRST CONCEPT THROUGH DESIGN DEVEL- IN THE ACADEMIC UNDER-OPMENT UNTIL THE COMPLETE PRESENTATION THIS ALLOWS STANDING OF ARCHITEC-FOR A REALISTIC DEDICATION TO EACH SINGLE TASK GIVEN IN A PROFESSIONAL POSITION. IT PROVIDES AN UNDERSTANDING SIS SHOULD DEMONSTRATE THAT EACH ASPECT OF THE PROCESS IS IMPORTANT, AS A NEW THE SKILLS I HAVE ACQUIRED INTERN MOST DAILY TASKS ASSIGNED WILL NOT INCLUDE DE-SIGNING BUT RATHER WORKING ON CONSTRUCTION DRAWINGS. THEREFORE, AN APPRECIATION OF THE IMPORTANCE OF EACH PIECE OF THE PROCESS WILL HOPEFULLY BE GAINED THROUGH-OUT THIS THESIS PROJECT WHICH CAN BE CARRIED INTO THE SIS PROCESS OF THERE IS PROFESSIONAL CAREER. LIKEWISE HAVING A THESIS PROFES-SOR GUIDE ME THROUGH A NEW PROCESS IS MUCH LIKE BEING ASSIGNED AND TAUGHT BY A PRINCIPLE IN THE PROFESSIONAL FINAL PRESENTATION WILL WORLD. ACCEPTING GUIDANCE AND LEARNING UNDER OTHERS WILL ALWAYS PROVIDE INSIGHT INTO ANOTHER UNDERSTAND-ING OF THIS PROFESSION, EXPECIALLY WHEN IT IS COMING FORM A SUPERIOR. IT IS NOT JUST THE END PRODUCT THAT SPEAKS TO AND PHYSICAL, AND ELEC-A PROPERLY DESIGNED PROJECT BUT THE PROCESS AS WELL. TRONIC

T H E ACADEMIC

TURE. IN THE END THIS THE-WITH GREATER KNOWLEDGE AND APPRECIATION FOR THE MAJOR TOPICS PRESENT-ED. THROUGHOUT THE THE-NO DOUBTED THAT NEW DIS-COVERIES WILL BE MADE. THE DISPLAY THE SKILLS AC-QUIRED THROUGHOUT THE YEAR THROUGH GRAPHICAL PRESENTATION.

PERSONAL

TO GROW AS AN ARCHITEC-TURAL DESIGNER LEARNING IS NEVER DONE AND IT IS THIS FACT THAT DRIVES ME TO FUR-THER MY UNDERSTANDING IN NOT ONLY THE ARCHITECTUR-AL FIELD BUT OTHER FIELDS AS WELL. THIS THESIS PRO-CESS WILL EXPAND MY UN-DERSTANDING OF RAINY AND MILD CLIMATES SUSTAINABLE STRATEGIES, THE PSYCHOLO-GY OF SPACES, THE IMPACT OF COMMUNITY LIVING AMONG SENIOR CITIZENS, AND THE APPLICATION OF GREEN ELE-MENTS ETC. I HOPE TO GAIN A **DEEPER UNDERSTANDING INTO** THE SUBJECT MATTER TO DEEPEN MY KNOWLEDGE BASE.



SER:

THE SENIOR LIVING FACILITY IN THE ISSAQUAH HIGH-LANDS IS DESIGNED WITH FOUR GROUPS OF INDIVID-UALS: THE RESIDENT, THE WORKER, THE VISITOR, AND COMMUNITY ORGANIZATIONS.

IN THIS SENIOR LIVING FACILITY THE MAIN USERS WILL BE THE THE PEOPLE WHO WORK IN THIS PEOPLE AGES 65+ OF THE ISSAQUAH AREA. THE RESIDENTS WILL SENIOR LIVING FACILITY IN-LIVE IN THE FACILITY THEY ARE PEOPLE THAT WOULD LIKE A CHANGE FROM THEIR CURRENT LIVING SITUATION. THEY ARE WELCOMED INTO THIS LIVING FACILITY FOR A NUMBER OF REA-SONS INCLUDING A NEED TO DOWNSIZE OR A NEED FOR A MORE BE USERS OF THIS FACILITY. ACCESSIBLE HOME OR SIMPLY WOULD LIKE TO BE IMMERSED IN IT WOULD NOT RUN PROPER-A COMMUNITY OF PEOPLE OF THE SAME AGES.

ORKER

CLUDE NURSES, COOKS, WELL-NESS COACHES, MANAGERS, AND CLEANING CREW WOULD LY WITHOUT THEM AND THEIR ATTENDANCE WOULD BE DAI-LY. THE WORKERS WILL PRO-VIDE ESSENTIAL CARE TO THE RESIDENTS FROM THINGS LIKE HOSPITALITY TO PERSON-AL CARE TO MAINTENANCE.





E T H V I S I T O R COMMUNITY

THE FAMILIES AND FRIEND ALTHOUGH THIS IS A SENIOR OF THE RESIDENTS ARE WEL- LIVING FACILITY IT IS OPENED COMED AND STRONGLY EN- UP TO THE COMMUNITY AND COURAGED INTO THE FACILITY INVITES ORGANIZATIONS AND THEREFORE WILL BE ANOTHER PROGRAMS IN. THEREFORE TYPE OF USER THAT WILL CON- PROGRAMS LIKE GIRL SCOUTS TINUOUSLY BE AROUND. THESE COOKING CLASSES, AND WELL VISITORS WILL HAVE FULL AC- NESS CLASSES ARE SUP-CESS TO THE FACILITY AND PORTED AND ENCOURAGED ARE ALLOWED NIGHT PASSES TO FACILITATE THE NON-RES IF THEY WISH TO STAY THE IDENTIAL SPACES . WITH MUL NIGHT. THEY MUST SIMPLY BE TIPLE PROGRAMS SUPPORT APPROVED AT THE FRONT DESK ED IT OPENS UP THE FACILITY

FOR SAFETY PRECAUTIONS. TO THE WHOLE COMMUNITY

ESEARCH:

MPAIRMENTS, BOTH PHYSICAL AND MENTAL, CAN OC-CUR WHEN THE ELDERLY AGING PROCESS BEGINS; THE LOSS OF ABILITIES SUCH AS BALANCE, AGILITY, AND MEMORY CAN CRE-ATE HARDSHIPS IN SIMPLE DAILY TASKS AND ACTIVITIES PER-FORMED. THESE LOSSES CAN AFFECT AND/OR INHIBIT OVERALL WELLNESS IN REGARDS TO THE LONGEVITY OF A PRODUCTIVE, INDEPENDENT, AND SOCIAL LIFESTYLE. ELIMINATING BARRI-ERS THAT WOULD CAUSE EXTRA STRESS TO THE PHYSICAL OR MENTAL STATE OF A SENIOR ARE CRUCIAL, FOR THEY MAY LEAD TO OTHER AREAS OF LIFE AND HAVE A NEGATIVE DOMINO EF-FECT. THEREFORE, THE ENVIRONMENT BOTH PHYSICAL AND SO-CIAL, IN WHICH SENIOR CITIZENS DWELL, CAN BE MADE A POS-ITIVE KEY CONTRIBUTOR OF A HEALTHY AND DYNAMIC AGING PROCESS. SENIOR LIVING FACILITIES ARE, FOR THE MOST PART, ADEQUATE IN THE FACT THEY ARE ABLE TO PROVIDE ALL EF-FECTS NECESSARY TO LIVE A STANDARD LIFE. WHAT THEY ARE LACKING ARE OPPORTUNITIES TO CATER TO CONTINUED OVER-ALL WELLNESS. THIS PROBLEM CAN BE SOLVED BY CONSIDER-ING A HOLISTIC DESIGN APPROACH; AN APPROACH THAT CON-SIDERS MULTIPLE ASPECTS AND DOES NOT JUST DESIGN FOR ONE DESIRED OUTCOME BUT MANY, APPLYING THE CONCEPT OF CONNECTIVITY TO DESIGN INTENTIONS OF SENIOR LIVING FACILITIES CAN BE THE ADVANCEMENT NEEDED TO SUPPORT

CURRENT AND CONTINUED WELLNESS OF ITS RESIDENTS. THIS CAN BE ACHIEVED BY FO-CUSING ON PHYSICAL MOBIL-ITY WITHIN AND AROUND THE HOME. CREATING A SENSE OF COMMUNITY THROUGHOUT THE FACILITY AND THE SUR-ROUNDING TOWN, AND IN-TEGRATING NATURE BY CRE-ATING OPPORTUNITIES FOR INTERACTION THROUGH MUL-TIPLE SENSES. THESE ARE ELEMENTS OF DESIGN THAT ARE NEEDED TO BE WORKING HARMONIOUSLY TOGETHER TO TRANSFORM SENIOR LIVING FACILITIES FROM WHAT THEY ARE TODAY TO SUCCESSFUL AND SUPPORTIVE ENVIRON-MENTS THAT CATER TO AND NURTURE CONTINUED WELL-NESS FOR SENIOR LIVING.

IT IS IMPORTANT, WITH DESIGNING FOR SENIORS, TO CONSIDER MOBILITY CHANGE OVER TIME AND ALLOWING THESE CONSIDERATIONS TO DOMINATE THE ACCESSIBILITY ASPECT OF DESIGN. IT IS STAT-ED IN THE ARTICLE MAKING A HOUSE A HOME THAT UNI-VERSAL DESIGN IS, "DESIGN OF PRODUCTS AND ENVIRON-MENTS TO BE USABLE BY ALL PEOPLE, TO THE GREATEST EXTENT POSSIBLE, WITHOUT THE NEED FOR ADAPTATION OR SPECIALIZED DESIGN" (TEP-PER, 2016). TEPPER CONTIN-UES ON TO EMPHASIZE THAT, "A KEY CONCEPT OF UNIVER-SAL DESIGN IS TO PROVIDE AC-CESSIBILITY WITHOUT STIG-MATIZATION BY INTEGRATING ACCESSIBILITY FEATURES

SUCH THAT THEY BENEFIT ALL FULL PHYSICAL CAPABILITIES USERS WHILE GOING ESSEN-TIALLY UNNOTICED." IN RESI-DENTIAL SETTINGS, FEATURES CAN INCLUDE LEVER-HAN-DLE FAUCETS, NO-THRESH-OLD WALK-IN SHOWERS, ZE-DOORWAYS AND HALLS, AND KITCHEN COUNTER TOPS AT VARYING LEVELS TO ACCOM-MODATE STANDING AND SEAT-ED USERS, AS WELL AS PEOPLE OF DIFFERENT HEIGHTS" (TEP-PER, 2016). THIS SIMPLY SUG-GESTS THAT DESIGNING FOR THE NEEDS OF ALL PEOPLE NO MATTER WHAT THEIR PHYS-ICAL CAPABILITIES ARE PRU-DENT. THIS NEEDS TO BE THE CONCEPT WHEN DESIGNING FOR ANYONE BUT ESPECIALLY WHEN DESIGNING FOR SE-NIORS. EVEN IF A RESIDENT HAS

THAT DOES NOT MEAN THAT THEIR STATUS COULD CHANGE IN THE FUTURE. THEREFORE, IF THE STATUS OF MOBILITY WERE TO CHANGE, AT ANY POINT, THE ABILITY OF DAILY HOUSEHOLD RO-STEP ENTRANCES, WIDER TASKS WOULD NOT BE INHIB-ITED IF UNIVERSAL DESIGN CONCEPTS ARE IMPLEMENTED IN AND AROUND THE HOME.

CERTAIN HOUSEHOLD TASKS CAN BE DIFFICULT TO PERFORM FOR SENIORS, THEREFORE IDENTIFYING THE MAIN TASKS THAT CAN LEAD TO COMPLICATIONS IS IMPORTANT. IT IS OBSERVED BY MARIANNE GRANBOM IN A RESEARCH STUDY, A PUBLIC HEALTH PERSPECTIVE TO ENVIRONMENTAL BARRI-ERS AND ACCESSIBILITY PROBLEMS FOR SENIOR CITIZENS LIV-ING IN ORDINARY HOUSING, THAT FOR PEOPLE AGES 80-89, "THREE BARRIERS WERE AMONG TOP-TEN BARRIERS REGARD-LESS OF HOUSING TYPE OR FUNCTIONAL PROFILE; STEPS/ THRESHOLD/ DIFFERENCES IN LEVEL BETWEEN ROOMS; WALL-MOUNTED CUPBOARDS AND SHELVES PLACED TOO HIGH IN KITCHEN AND NO GRAB BARS AT SHOWER/BATH AND TOILET" (GRANBOM, IWARSSON, KYLBERG, PETTERSSON, & SLAUG, 2016) THESE ARE JUST A FEW BARRIERS, AMONG MANY, THAT NEED TO BE CONSIDERED WHEN DESIGNING AN ACCESSIBLE LIVING FACILITY FOR SENIORS. ELIMINATING AS MANY OBSTACLES AS POSSIBLE WILL MAKE DAILY ROUTINES MORE MANAGEABLE FOR SENIORS.

LIMINATING OBSTACLES WITHIN THE HOME ALLOWS WORK DAY, AND THIS CHANGE FOR THE OPPORTUNITY OF PERFORMING TASKS WITH EASE, THEREFORE ALLOWING FOR LESS DISTURBANCES THROUGH-OUT THE RESIDENTS DAY AND A GREATER OPPORTUNITY TO GO ON WITH THEIR DAY AS PLANNED. THERE IS RESEARCH THAT PROVES ACCESSIBLE AND PROPERLY DESIGNED HOMES CAN CONTRIBUTE TO INDEPENDENCE WHICH CAN IN TURN LEAD TO POSITIVE HEALTH AND WELLNESS (GRANBOM ET AL., 2016). THIS SUPPORTS THE CLAIM THAT ACCESSIBLE DESIGN DOES NOT ONLY AFFECT THE CURRENT TASK PERFORMED BY AN INDIVIDUAL BUT CAN HAVE A DOMINO EFFECT INTO OTHER ASPECTS IN LIFE. WHEN CERTAIN TASKS ARE ABLE TO BE PER-FORMED WITH EASE IT ALLOWS FOR OPPORTUNITY TO CONTIN-UE ON TO OTHER TASKS AND ACTIVITIES PLANNED FOR THE DAY.

ACCESSIBILITY IS ONE OF THE KEY ELEMENTS OF A PRODUCTIVE SENIOR. GANBOM EMPHASIZES THAT, "ITSHOULDBEKEPTINMINDTHATACCESSIBILITYISONLYONEOUT OFSEVERALASPECTSOFHOUSINGSHOWNTOBEASSOCIATEDWITH WELL-BEING AND QUALITY OF LIFE. NEIGHBORHOOD CHARACTER-ISTICS AND PERCEIVED ASPECTS OF HOME AND ARE AT LEAST AS IMPORTANT FOR THE INDIVIDUAL FACING DISABILITY OR AGE-RE-LATED FUNCTIONAL DECLINE [44, 45]." (GRANBOM ET AL., 2016). THIS RAISES THE NOTION THAT ACCESSIBILITY IS ONE OF THE MANY KEY INFLUENCES IN THE WELLNESS OF SENIORS BUT SO IS A SENSE OF BELONGING. MANY FACTORS CONTRIBUTE TO THE WELL-BEING OF SENIORS WITHIN AND AROUND THEIR HOME THAT INCLUDE BUT ARE NOT LIMITED TO ACCESSIBLE DESIGN.

HERE IS A TRANSI-TION IN BEHAVIOR BETWEEN ADULTS IN THE WORK FORCE AND SENIORS AFTER RETIRE-MENT. ADULTS IN THE WORK-FORCE ARE UNLIKE OLDER ADULTS IN THE SENSE THAT THEY HAVE MORE FREE TIME, WHICH TENDS TO BE SPENT IN AND AROUND THE HOME AND NEIGHBORHOOD, EN-GAGING AND PARTICIPATING WITH THOSE AROUND THEM (LEVASSEUR ET AL., 2015) SENIORS ARE NOT FORCED TO ENGAGE WITH OTHERS AS THEY FORMERLY WOULD HAVE BEEN DURING A TYPICAL CAN BE A NEGATIVE ONE. THIS CAN LEAD TO SECLUSION, ISO-LATION, AND LONELINESS. THEREFORE, CREATING SPAC-ES FOR COMMUNAL ACTIVITIES AND OPPORTUNITIES FOR SO-CIAL INTERACTION ARE CRU-CIAL. SENIORS HAVE A DIFFER-ENT TYPE OF CONTACT WITH THOSE AROUND THEM WHEN COMPARED TO THOSE STILL IN THE WORK FORCE, THUS THERE NEEDS TO HAVE ALTERNA-TIVE MEANS OF SOCIALIZING.

Social interaction is a HEALTHY WAY TO STAY EN-GAGED AS IS PHYSICAL AC-TIVITY, THE IMPORTANCE OF CONTINUED PHYSICAL ACTIV-ITY THROUGHOUT A LIFETIME REPS BENEFITS ESPECIALLY IN SENIORS. IN THE ARTICLE THE RELATIONSHIP BETWEEN THE BUILT ENVIRONMENT AND HA-BITUAL LEVELS OF PHYSICAL ACTIVITY IN SOUTH AFRICAN

ADULTS: A PILOT OLDER STUDY. KOLBE-ALEXANDER CLAIMS, "THERE IS CONSIS-TENT EVIDENCE OF ASSOCI-ATION BETWEEN PHYSICAL ACTIVITY AND REDUCED RISK FOR NON-COMMUNICABLE DISEASES [4]." (KOLBE-AL-EXANDER, PACHECO, TOMAZ, KARPUL, & LAMBERT, 2015) WHILE CONTINUING ON TO SUGGEST THAT CONSISTENT PHYSICAL ACTIVITY IN SE-NIORS HAS SHOWN TOO SIG-NIFICANTLY, "INCREASE FUNC-TIONAL INDEPENDENCE [7] INCREASE MOBILITY AND MUS-CLE STRENGTH [7, 8], MAIN-TAIN GLUCOSE BLOOD LEVELS 9, IMPROVE BONE HEALTH AND BONE MINERAL DENSITY [7, 9], IMPROVE PSYCHOLOG-ICAL [9] WELLBEING AS WELL OVERALL QUALITY OF LIFE [7. 10]" (KOLBE-ALEXANDER ET AL., 2015). THIS PROVIDES THE IMPORTANCE THAT SENIORS, SPECIFICALLY, SHOULD EN-GAGE IN PHYSICAL ACTIVITY NOT ONLY FOR THEIR CURRENT HEALTH CONDITIONS BUT FOR THEIR OVERALL WELLBEING.

LOCATION CAN BE A KEY AS-PECT OF DESIGN WHEN CON-SIDERING KEEPING SENIORS CONNECTED TO THEIR SUR-ROUNDINGS. THIS IS FOUND IN LEVASSEURS STUDY, LIVING WITHIN A REASONABLE PROX-IMITY TO SERVICES LIKE SHOP-PING, HEALTH, AND BANKING CAN LEAD TO CONTINUED IN-DEPENDENCE AND SOCIAL LINKS WITHIN THE COMMU-(LEVASSEUR ET AL.



2015) FOR EXAMPLE, IF THE FOR EXAMPLE, IF SENIORS ARE PROXIMITY TO SERVICES CAN FINANCIALLY ALLOWING FOR OPPORTUNITY OF MORE PHYSICAL ACTIVITY.

Not ONLY DOES CLOSENESS TO BUSINESS-ES HELP SENIORS MAINTAIN THEIR INDEPENDENCE AND PROVIDE THEM THE OPPOR-TUNITY FOR PHYSICAL ACTIV-ITY, BUT IT ALLOWS THEM TO SUPPORT LOCAL BUSINESSES AND MAINTAIN SOCIAL LINKS.

GROCERY STORE IS ONLY A ON THEIR WAY TO A NEARBY FEW BLOCKS AWAY SENIORS LOCAL BUSINESS THEY HAVE ARE MORE APT TO GO INDE- A HIGHER CHANCE TO PASS PENDENTLY AND DO THEIR OTHER COMMUNITY MEM-OWN SHOPPING. THIS ALSO BERS AND MAINTAIN SOCIAL PROVIDES A CHANCE FOR CONTACT. (LEVASSEUR ET AL., PHYSICAL ACTIVITY, LIKE BIK- 2015) LIVING WITHIN CLOSE ING OR WALKING, WITHOUT PROXIMITY TO ESSENTIAL THE WORRY OF OVERDO- SERVICES HAS MANY BENE-ING IT. LIVING WITHIN CLOSE FITS FOR SENIORS INCLUDING SUPPORTING PROVIDE GREATER OPPORTU- THE COMMUNITY AND ALLOW-NITIES FOR CONTINUED IN- ING THEM TO HAVE CONTIN-NDEPENDENCE WHILE ALSO UED SOCIAL INTERACTIONS.

HE IMPORTANCE OF SAFETY IS AN ELEMENT OF COM-FORT THAT CANNOT BE UNDERESTIMATED WHEN IT COMES TO SENIORS AND THEIR MOBILITY WITHIN THEIR COMMUNI-TY. IF THEY DO NOT FEEL COMFORTABLE THEY WILL BE LESS WILLING TO LEAVE THE SECURITY OF THEIR HOME AND EN-GAGE AND PARTICIPATE. LEVASSEUR CLAIMS THAT NEIGHBOR-HOOD SECURITY AND USER-FRIENDLINESS CAN HELP PRO-MOTE COMMUNITY-DRIVEN ACTIVE LIVING IN OLDER ADULTS (LEVASSEUR ET AL., 2015). THE "USER-FRIENDLINESS" PLAYS A SIGNIFICANT ROLE IN PARTICIPATION WITHIN THE COMMU-NITY. THERE ARE MANY THINGS THAT SENIORS STRUGGLE WITH THEREFORE, THE EASIER IT IS TO MANEUVER ABOUT THE TOWN THE HIGHER CHANCE THEY WILL PARTICIPATE IN THE COMMUNITY. SAFETY AND USABILITY WITHIN SENIORS LIV-ING ENVIRONMENT IS AN IMPORTANT ASPECT THAT WILL PRO-MOTE A SENSE OF SECURITY AND COMFORTABILITY WHICH ALLOWS FOR ENGAGEMENT WITHIN THE COMMUNITY.

UETTING INVOLVED WITH PROGRAMS AND ACTIVI-TIES CAN BE DIFFICULT WHEN THEY DO NOT HOLD ANY IN-TEREST OR ENGAGEMENT THEREFORE PROVIDING RELEVANT AND ENGAGING PLANS IS IMPORTANT. LEVASSEUR STATES, "SINCE OLDER ADULTS MIGHT BE MORE LIKELY TO BE MOBILE OR PARTICIPATE WHEN ACTIVITIES ARE MEANINGFUL TO THEM [99], THE IMPACT OF SEEING OTHER PEOPLE WALKING OR DO-ING SOCIAL ACTIVITIES SHOULD NOT BE UNDERESTIMATED... MOREOVER, INTEGRATING OLDER ADULTS INTO THEIR COM-MUNITY CAN PROVIDE THEM WITH EMOTIONAL SUPPORT. MOTIVATION, INFORMATION, SOCIAL INTERACTION, FRIEND-SHIP, SENSE OF BELONGING, ETC" (LEVASSEUR ET AL., 2015). THEREFORE, IT IS IMPORTANT TO ENGAGE SENIORS WITH ACTIVITIES SUITING FOR THEM SPECIFICALLY AND THE POWER OF SUGGESTION CAN CONTRIBUTE GREAT-LY TO THEIR OWN DESIRE TO TAKE PART IN ACTIVITIES.

HE IMPORTANCE OF FINDING PROGRAMS FOR SENIORS TO PARTAKE IN IS JUST THE FIRST STEP, THE SECOND STEP IS FIND-ING PHYSICAL FITNESS PROGRAMS THAT SENIORS CAN ROUTINE-LY PARTICIPATE IN. IT IS RECORDED IN THE STUDY THE EFFECTS OF A THERAPEUTIC YOGA PROGRAM ON POSTURAL CONTROL, MOBILITY, AND GAIT SPEED IN COMMUNITY-DWELLING OLDER ADULTS HAVE AT LEAST TWO FALLS PER YEAR. 3 GROUP EX-ERCISE PROGRAMS DECREASE FALL FREQUENCY. INCREASE BALANCE. AND **IMPROVE** QUALITY OF LIFE IN THIS POP-ULATION" (KELLEY, AARON HYNDS, MACHADO, & WOLFF, 2014). THIS RESEARCH OFFERS INCENTIVE TO NOT ONLY PAR-TICIPATE IN GROUP ACTIVITIES, WHICH IN TURN CREATES SO-CIAL INTERACTION, BUT ALSO TO MANAGE THEIR PHYSICAL FITNESS TO PREVENT POTEN-TIAL PHYSICAL ACCIDENTS. PARTICIPATING IN GROUP EX-**ERCISE PROGRAMS PROMOTES** HEALTH AND AVERTS THE PO-TENTIAL FOR MISHAPS. ALONG WITH PREVENTING INJURIES, REGULAR EXERCISE PRO-GRAMS CAN REDUCE THE RISK OF CERTAIN DISEASES. THERE IS RELIABLE PROOF PROVIDED BY KOLBE-ALEXANDER THAT THERE ARE DIRECT CORRELA-TIONS BETWEEN REGULAR PHYSICAL ACTIVITY AND THE DECREASE IN SICKNESS AND DEATH (KOLBE-ALEXANDER ET AL., 2015). PROVIDING PRO-GRAMS, THAT VARY WITHIN SKILL LEVEL, ARE A SIMPLY YET EFFECTIVE WAY TO PROMOTE PHYSICAL ACTIVITY WITH-IN SENIOR LIVING FACILITIES TO DECREASE THE CHANCE FOR MULTIPLE DISEASES.

SENIOR LIVING FACILITY CARE SHOULD PROVIDE MORE



THAN A PLACE TO LIVE, IT SHOULD CONTRIBUTE OPPOR-TUNITIES TO LIVE A HAPPY AND ACTIVE LIFE. "SUCCESSFUL AGING' IS REGARDED AS NOT ONLY PHYSICAL AND FUNC-TIONAL HEALTH. BUT ALSO HIGH COGNITIVE FUNCTIONING AND ACTIVE INVOLVEMENT IN SOCIETY (ROWE & KAHN 1997). (TSE MMY, 2010). THIS DEFINI-TION IS WHAT IS NEEDED WHEN IT COMES TO THE CARE PRO-VIDED BY SENIOR LIVING FA-CILITIES. TSE CONTINUES ON TO SUGGEST THAT, "PEOPLE WITH GOOD HEALTH HABITS LIVE LONGER AND HEALTHIER, REDUCING THEIR CHANCES OF HAVING TO RELY ON THE MED-ICAL SYSTEM" (HONG KONG POLICY RESEARCH INSTITUTE LTD 2006). (TSE MMY, 2010) RULE OF THUMB FOR EVERY

ONE, ESPECIALLY SENIORS, ACCOMPANIED WITH PHYSI-PLE ARE THE LESS RESILIENT CIATING AND BEING INVOLVED HAVE MORE DIFFICULTIES I PHYSICAL "STRENGTH, AGIL-THESE ARE NORMAL NOTIONS. LONG THE PHYSICAL MO-THEREFORE ANYTHING THAT BILITY IS SOMETHING THAT ING SHOULD BE IMPLEMENT- PART OF A DAILY ROUTINE. ED INTO A DAILY LIFESTYLE.

HERE IS AN ACCEPTED COR-RELATION BETWEEN THE NE-CESSITY TO BE ACTIVE AND THE CAPABILITY TO BE AC-TIVE, AND THE NEED FOR THE NATURAL ENVIRONMENT. IT IS SUGGESTED THAT ACTIVITIES

BECAUSE THE OLDER PEO- CAL MOBILITY WHILE APPRE-THEY BECOME. SENIORS MAY WITH THE OUTDOORS INCLUDE WHEN IT COMES TO MEDICAL ITY, AND STAMINA," THINGS PROCEDURES AND RECOV- THAT AS SENIORS AGE CAN ERY AND REHAB TIMES, THESE DECLINE AS A NATURAL PRO-ARE NORMAL NOTIONS. MED- CESS (SUGIYAMA & WARD ICAL PROCEDURES AND RE- THOMPSON, 2007). ANYTHING COVERY AND REHAB TIMES, THAT CAN IMPROVE AND PRO-CAN PROMOTE HEALTHY LIV- SHOULD BE MANDATORY AS



NTEGRATING NATURE INTO DAILY INTERACTIONS HAS NUMEROUS HEALTH BENEFITS NOT ONLY PHYSICALLY BUT MENTALLY AS WELL. IN THE ARTICLE WHAT IS THE EVIDENCE TO SUPPORT THE USE OF THERAPEUTIC GARDENS FOR THE EL-DERLY? DETWEILER STUDY USING HORTICULTURE THERAPY, HT, INDICATES TO HAVE AN EFFECTIVE MEANS FOR IMPROVING SLEEP, AGITATION, AND COGNITION IN SENIORS. IT PROVES TO AID IN LEARNING NEW SKILLS. IMPROVE MEMORY. SENSE OF RE-SPONSIBILITY, AND SOCIAL INTERACTION. HT HAS SHOWN TO REDUCE STRESS, INCREASE THE FEELINGS OF CALM AND RE-LAXATION, AND NURTURE SENSE OF ACCOMPLISHMENT AND SELF-ESTEEM. NINE OUT OF TEN CASES DISPLAY IMPROVE- A FUN AND REWARDING ACTIV-MENTS IN SELF-ESTEEM WHEN INVOLVEMENT IN ACTIVITIES IN ITY TO PARTICIPATE IN. (WICKS, GREEN SETTINGS. (DETWEILER ET AL., 2012). MANY ASPECTS OF HEALTH CAN ASSISTANCE IN A POSITIVE WAY WHEN HT TECH-NIQUES ARE IMPLEMENTED INTO SENIOR'S DAILY ROUTINES.

UNE OF THE MORE HANDS ON ASPECTS OF INTEGRATING NATURE INTO RESIDENT'S LIVES IS GARDENING, THIS IS PROV-EN IN A STUDY PERFORMED. GARDENING HAS MANY BENEFITS AS A HOBBY FOR ONE. IT GETS RESIDENTS UP AND OUT OF THE HOUSE WHILE TENDING TO IT. IT ALLOWS FOR THE RESIDENTS TO

OWN FRUITS, VEGETABLES, AND HERBS IF DESIRED. THIS COULD ALSO OPEN UP THE OP-PORTUNITY FOR INVOLVEMENT IN THE LOCAL FARMERS MAR-KETS, SOMETHING THAT HAS MORE BENEFITS THAN SIMPLY INVOLVEMENT IN THE COMMU-NITY. GARDENING ALSO HAS THE SIMPLE PLEASURE AS-PECT TO IT, GARDENING CAN BE 2012). RESULTS FOUND IN A STUDY PERFORMED ON SE-NIORS ENGAGING IN DAI-LY GARDENING ACTIVITIES SHOWED POSITIVE RESULTS.

IN THE ARTICLE DESIGN-ING FOR LIVING THEY FOCUS ON THE ARGUMENT THAT

FACT THAT NATURAL OUT DOOR ENVIRONMENTS ARE MENTAL WELLBEING, IT IS A NEW AREA OF STUDY WHEN IT IS BEING IMPLEMENTED INTO THE LIVING ENVIRONMENTS AS A WELLNESS AID (WICKS, 2012). THIS IS AN INTERESTING CON-CEPT CONSIDERING AT ONE POINT ALL DWELLERS HAD TO RELY ON THE NATURAL OUT-DOOR ENVIRONMENT, BUT NOW THE CONCEPT IS COMING BACK AND BEING STUDIED AND THEN IMPLEMENTED INTO PRAC-TICE AS A MEAN OF PROMOT-ING HEALTH AND WELLNESS. THERE ARE WAYS OF DESIGN-ING THAT CAN CAPTURE THE **NATURAL ENVIRONMENT** AND IMPLEMENT IT INTO THE PROGRAM OF THE BUILDING. SENIOR LIVING SHOULD IN-TEGRATE NATURAL DESIGN **ELEMENTS LIKE PASSIVE SYS-**TEMS TO PROMOTE HEALTH AND HEALING IN THE DESIGN PROGRAM. DESIGN STRAT-EGIES LIKE NATURAL LIGHT, GREEN SPACES AND PATHS, AND CROSS VENTILATION CAN BE USED TO ENCOUR-AGE WELLNESS PHYSICALLY AND MENTALLY (WICKS, 2012). ANOTHER ASPECT THAT CAN BE CONSIDERED IS CREAT-ING VIEWS TO THE OUTSIDE FACILITY HAS MULTIPLE BEN

EVEN THOUGH IT IS A KNOWN

THEREFORE CONNECT THE EFITS FOR HEALTH, HEALING, RESIDENT TO THEIR SUR-ROUNDINGS. ESSENTIAL TO PHYSICAL AND STRATEGIES INCLUDING SOLAR THESE ELEMENTS TOGETHER PANELS, RAINWATER CAPTURE, HARNESSING GEOTHERMAL ATE A SENIOR LIVING FACILITY ENERGY, AND WINDENERGY ARE THAT PROMOTES CURRENT ALL NATURAL APPROACHES AND CONTINUED OVERALL THAT COULD BE IMPLEMENTED WELLNESS FOR ITS RESIDENTS. INTO A SENIOR LIVING DESIGN

HROUGH THE DE-SIGN APPLICATIONS OF CON-NECTIVITY BY MEANS OF PROPERLY AND SPECIFICALLY CONSIDERED ACCESSIBILITY. PRODUCING A STRONG SENSE OF COMMUNITY, , AND INCOR-PORATING NATURE THROUGH THE SENSES SENIOR LIVING FACILITIES CAN BE NOT ONLY A PLACE OF LIVING BUT A PLACE OF THRIVING. ACCESSIBLE DE-SIGN IS ONE OF THE CORE DE-SIGN INTENTION WHEN CON-SIDERING AN IMPROVED TYPE OF SENIOR LIVING FACILITY, IT PROMOTES EASE WHILE MAK-ING RESIDENTS LIVES SIM-PLER AND SUPPORTS WELL-NESS. LINKING SENIORS TO THEIR SURROUNDINGS TO PROMOTE INDEPENDENCE AND A HEALTHY SOCIAL LIFE IS A DYNAMIC WAY TO ENCOUR-AGE HEALTHY HABITS. INCOR-PORATING NATURE INTO THE DESIGN OF A SENIOR LIVING

AND ENGAGEMENT AMONG ITS SUSTAINABLE RESIDENTS. COLLABORATIVELY HAVE THE POTENTIAL TO CRE-

ANNOTATED BIBLIOGRAPHY:

DETWEILER, M. B., SHARMA, T., DETWEILER, J. G., MURPHY, P. F., LANE, S., CARMAN, J., ... KIM, K. Y. (2012). WHAT IS THE EVIDENCE TO SUPPORT THE USE OF THERAPEUTIC GAR DENS FOR THE ELDERLY? PSYCHIATRY INVESTIGATION, 9(2), 100–110. HTTP://DOI. ORG/10.4306/PI.2012.9.2.100

THIS ARTICLE FOCUSES ON HORTICULTURE THERAPY, HT, AND ITS BENEFITS IN THERAPEUTICALLY AND REHABILITATION APPLICATIONS IN THE AGING SENIOR POPULATION, AND HOW IT CAN PREVENT THE HIGH COST OF CONVENTIONAL MEDICAL OPTIONS. DETWEILER STUDIES THE CORRELATION BETWEEN HT METHODS USED AND THE EFFECTS ON SENIORS IT PROVIDES MULTIPLE PHYSICAL AND MENTAL BENEFITS OF HT APPLICATIONS AND HOW IT CAN SUPPORT LONG-TERM CARE AND RECUPERATION.

GRANBOM, M., IWARSSON, S., KYLBERG, M., PETTERSSON, C., & SLAUG, B. (2016). A PUBLIC HEALTH PERSPECTIVE TO ENVIRONMENTAL BARRIERS AND ACCESSIBILITY PROBLEM FOR SENIOR CITIZENS LIVING IN ORDINARY HOUSING. BMC PUBLIC HEALTH, 16. HTTP://DOI.ORG/10.1186/S12889-016-3369-2

THIS RESEARCH ARTICLE EXPLORES THE PHYSICAL MOBILITY IN AND AROUND ORDINARY HOUSING AND FURTHER LOOKS INTO HOW IT CAN HAVE NEGATIVE EFFECTS OF SOCIAL PARTICIPATION AND HEALTH. THE STUDY INVESTIGATES THE SPECIFIC HOUSEHOLD BARRIERS AND OBSTACLES WITHIN A STANDARD HOME AND HOW THEY IN TURN AFFECT THE RESIDENT. A KEY FOCUS WAS THE TYPE OF THE HOMES AND THE YEAR THEY WERE BUILT. THIS ARTICLE EXPLORED DIFFERENT TYPES OF HOMES WITH RESIDENTS OF DIFFERENT PHYSICAL CAPABILITIES TO PROVIDE EVIDENCE FOR COMMON HOUSEHOLD BARRIERS EXPERIENCED BY THE AGING POPULATION.

(2014). THE EFFECTS OF A THERAPEUTIC YOGA PROGRAM ON POSTURAL CONTROL, MOBILITY, AND GAIT SPEED IN COMMUNITY-DWELLING OLDER ADULTS. JOURNAL OF ALTERNATIV AND COMPLEMENTARY MEDICINE (NEW YORK, N.Y.), 20(12), 949–954. HTTP://DOI. ORG/10.1089/ACM.2014.0156

THIS JOURNAL ARTICLE REVIEWS THE EFFECTS OF A TWELVE WEEK YOGA PROGRAM PERFORMED BY SENIORS. THE TRIAL WAS OVERALL SUCCESSFUL IN MANY WAYS INCLUDING CONSISTENT PARTICIPATION BY MEMBERS AND IMPROVEMENTS IN PHYSICAL CAPABILITIES OF PARTICIPANTS. THE STUDY WAS TARGETING COMMUNITY DWELLING OLDER ADULTS, AND HOW A WEEKLY PROGRAM CAN HAVE A POSITIVE EFFECT ON THEIR QUALITY OF LIFE.

KELLEY, K. K., AARON, D., HYNDS, K., MACHADO, E., & WOLFF, M.

KOLBE-ALEXANDER, T. L., PACHECO, K., TOMAZ, S. A., KARPUL, D., & LAMBERT, E. V. (2015).

THE RELATIONSHIP BETWEEN THE BUILT ENVIRONMENT AND HABITUAL LEVELS

OF PHYSICAL ACTIVITY IN SOUTH AFRICAN OLDER ADULTS: A PILOT STUDY. BMC

PUBLIC HEALTH, 15, 518. HTTP://DOI.ORG/10.1186/S12889-015-1853-8

THIS STUDY REVIEWS THE IDEAS THAT THE BUILT ENVIRONMENT THAT SENIORS ARE IN PLAYS A ROLE IN THEIR PHYSICAL ACTIVITY AND DEMONSTRATE THE IMPORTANCE OF THE CORRELATION IN LOW INCOME SENIORS IN SOUTH AFRICA. ELEMENTS INCLUDING STREET CONNECTIVITY, AESTHETICS, AND SAFETY WERE CONSIDERED INTO THE STUDY. THE RESULTS CONCLUDED THAT SENIORS LIVING IN LOWER-INCOME NEIGHBORHOODS PARTICIPATE IN TRANSPORT RELATED ACTIVITY, FACTORS INCLUDING VEHICLE OWNERSHIP AND SELF-PERCEPTIVE HEALTH STATUS PROVED TO LESSEN PHYSICAL ACTIVITY LEVEL. THE BUILT ENVIRONMENT CAN HAVE CONTRIBUTING FACTORS TO SENIOR'S PHYSICAL ACTIVITY.

LEVASSEUR, M., GÉNÉREUX, M., BRUNEAU, J.-F., VANASSE, A., CHABOT, É., BEAULAC, C., & BÉDARD, M.-M. (2015). IMPORTANCE OF PROXIMITY TO RESOURCES, SOCIAL SUPPORT, TRANS PORTATION AND NEIGHBORHOOD SECURITY FOR MOBILITY AND SOCIAL PARTICIPATION IN OLDER ADULTS: RESULTS FROM A SCOPING STUDY. BMC PUBLIC HEALTH, 15, 503. HTTP://DOI.ORG/10.1186/S12889-015-1824-0

THIS RESEARCH ARTICLE EXPLORED THE KEY FACTORS IN MOBILITY AND SOCIAL PARTICIPATION IN OLDER ADULTS AND REVIEWED THE ASSOCIATION OF THE SURROUNDING NEIGHBORHOOD COMMUNITY AS A CONTRIBUTING FORCE ON THIS MATTER. A FORMAL RESEARCH WAS CONDUCTED AND REVIEWED, WITH THE FINDINGS THAT MOBILITY AND SOCIAL PARTICIPATION WERE POSITIVELY ASSOCIATED WITH CLOSENESS OF THINGS LIKE SERVICES AND PUBLIC TRANSPORTATION, AND NEGATIVELY ASSOCIATED WITH THINGS LIKE POOR USER-FRIENDLINESS AND NEIGHBORHOOD INSECURITY. THE INFORMATION FOUND PROVIDES INNOVATIVE DESIGN SOLUTIONS FOR SENIOR LIVING ENVIRONMENTS THAT SUPPORT A HIGH QUALITY OF LIFE.

SUGIYAMA, T., & WARD THOMPSON, C. (2007). OUTDOOR ENVIRMENTS, ATIVITY AND THE WELL-BEING OF OLDER PEOPLE: CONCEPTUALIZING ENVIRONMENTAL SUPPORT. ENVIRONMENT & PLANNING A. 39(8), 1943–1960.

THIS RESEARCH ARTICLE REVIEWS HOW THE OUTDOOR ENVIRONMENT HAS A POSITIVE EFFECT ON THE LIVES OF OLDER PEOPLE. THE STUDY PREFORMED PROVIDES RESEARCH INTO THE IDEAS THAT NEIGHBORHOODS WITH A SOLID INFRASTRUCTURE MAKE OUTDOOR ACTIVITIES POSSIBLE AND CAN ENCOURAGE A HIGHER QUALITY OF LIFE. THE RESEARCH PROVIDES INSIGHT INTO THE BENEFITS OF THE OUTDOORS AND PHYSICAL ACTIVITY, NATURE, AND SOCIAL INTERACTION. THIS RESEARCH REVIEWS THE BENEFITS OF THE OUTDOORS AND THE AFFECTS IT CAN HAVE ON OLDER PEOPLE.

TEPPER, D. (2016). MAKING A HOUSE AN ACCESSIBLE HOME. PT IN MOTION, 22-32.

THIS ARTICLE SUPPORTS AND ADVOCATES FOR UNIVERSAL DESIGN, UD, TO BE IMPLEMENTED IN HOMES TO SUPPORT RESIDENTS CONTINUED ACCESSIBILITY. COMMON KNOWLEDGE OF MULTIPLE PHYSICAL THERAPISTS ADVOCATE FOR THIS AS WELL, AND ENCOURAGE DESIGN THAT NOT ONLY MEETS THE CURRENT NEEDS OF ONE SPECIFIC INDIVIDUAL BUT ALLOWS FOR THE NEEDS OF ALL, NO MATTER THEIR PHYSICAL ABILITIES. AGING IN PLACE IS APPLAUDED, MAKING A CURRENT RESIDENCE ACCESSIBLE, BUT THE NOTION OF NEW CONSTRUCTION SIMPLY INTEGRATING DIFFERENT IDEAS OF UD INSTEAD OF ONLY APPLYING ADA IS A SUGGESTED GREATLY.

TSE MMY. (2010). THERAPEUTIC EFFECTS OF AN INDOOR GARDENING PROGRAMME FOR OLDER PEOPLE LIVING IN NURSING HOMES. JOURNAL OF CLINICAL NURSING, 19(7/8), 949–958. HTTP://DOI.ORG/10.1111/J.1365-2702.2009.02803.X

THIS JOURNAL EXAMINES THE DAILY ACTIVITIES OF AND THE PSYCHOLOGICAL HEALTH OF OLDER PEOPLE LIVING IN NURSING HOMES WHILE IMPLEMENTING A GARDENING PROGRAM TO SEE THE EFFECTS. THE CORE COMPONENTS REVIEWED OVER THE COURSE OF THE STUDY WERE SOCIALIZATION, SATISFACTION, LONELINESS. THEY ADDRESS THE CORRELATION BETWEEN SEDIMENTARY ACTIVITIES AND THE DECLINE IN FUNCTION. THE RESULTING INFORMATION CAME FROM A STUDY PREFORMED OVER THE PERIOD OF EIGHT WEEKS WHICH INVOLVED PARTICIPATING IN GARDENING ACTIVITIES. THE RESULTS OF THE STUDY WERE AS EXPECTED, ELEVATED FEELINGS OF HAPPINESS WITH LIFE AND SOCIAL INTERACTION AND A DECREASE IN FEELINGS OF ISOLATION AND LONELINESS.

WICKS, A. (2012). DESIGNING FOR LIVING. LANDSCAPE ARCHITECTURE AUSTRALIA, (134), 28-28.

THIS ARTICLE IS THE REFLECTION OF AN OCCUPATIONAL THERAPISTS VIEWS ABOUT LANDSCAPE ARCHITECTURE, AND URBAN DESIGN AND HOW IT CAN BE CONSIDERED WHEN IT COMES TO YOUNG CHILDREN AND AGING SENIORS. IT IS SUGGESTED THAT THE ENVIRONMENT THAT SURROUNDS AN INDIVIDUAL CAN SHAPE WHAT IS DONE AND WHAT IS DONE CAN SHAPE THE ENVIRONMENT. SUITABLE SPACES BOTH INDOOR AND OUT SHOULD ENCOURAGE ACTIVITY AND PLAY, THIS CAN PROVIDE BENEFITS IN A RAGE OF AREAS. PROPERLY MAINTAINED RECREATIONAL SPACES, BOTH INDOOR AND OUT, BENEFIT YOUNG CHILDREN AND AGING SENIORS ALIKE, AND CAN PROVIDE INVOLVEMENT AND ENGAGEMENT.

RECEDENT:

PRECEDENT NARRATIVE

THE FOLLOWING CASE STUDIES PROVIDE VALUED AND SUCCESSFUL DESIGN ELEMENTS THAT OFFER INSIGHT INTO THIS THESIS. WHEN RESEARCHING SENIOR LIVING FACILITIES MANY TYPES HAVE PROVEN SUCCESSFUL AND NOT SUCCESSFUL, FROM BETIREMENT HOMES ALL THE WAY TO NURSING HOMES.



WOODLANDHILL

ARCHITECT: POPE ARCHITECTS

YEAR COMPLETED: 2016

LOCATION: HUDSON, W

279,000 SQ.FT. SENIOR LIVING

6,100 SQ.FT. MEDICAL SUITE

95 SENIOR APARTMENTS 46 ASSISTED LIVING 19 MEMORY CARE

VALUE:

CHRISTIAN MINISTRY READY & ENGAGED PEOPLE OPERATIONAL INTEGRITY SERVICE AND EXCELLENCE STEWARDSHIP

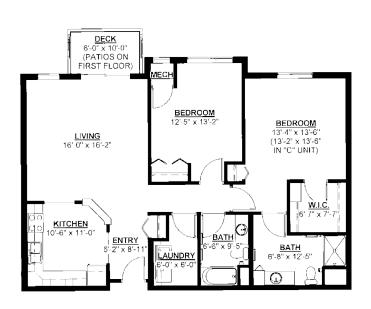
VISION:

TO PROVIDE MORE CHOICES AND OPPORTUNITIES FOR MORE OLDER ADULTS TO LIVE WELL



ASH: ONE BEDROOM 736 SQ.FT.

FIGURE 9



SPRUCE: TWO BEDROOM 1,256 SQ.FT.

FIGURE 11



DOUGLAS: ONE BEDROM SUN-ROOM 931 SQ.FT.

FIGURE 10



HICKORY: ONE BEDROOM/ SUN-ROOM 1,160 SQ.FT.

FIGURE 12

CONCLUSION:

THE DESIGN INTENTIONS OF WOODLAND HILLS SENIOR LIVING FACILITY VALUE ASPECTS INCLUDING COMMUNITY, FAITH, AND PROMOTING HEALTHY AGING. THIS IS ACHIEVED BY PROVIDING SPACES TO ACTIVELY PARTICIPATE AND ACT UPON THESE VALUES. THEY PROVIDE ACCESSIBLE DWELLING UNITS ALONG WITH ROOMS FOR WORSHIP AND ROOMS FOR WELLNESS. THEY HAVE OUTDOOR SPACES INCLUDING WATER FEATURES ALONG WITH WALKING PATHS AND SEATING AREAS THAT ALLOW FOR OUTDOOR ACTIVITY. THE COLORS USED THROUGHOUT THE LIVING FACILITY ARE CALMING AND NATURAL COLORS. THE USE OF LARGE AND LARGE WINDOWS ALLOW FOR NATURAL LIGHT INTO THE INDOOR SPACES.







MARYVILL NURSING H O M E

ARCHITECT: ANKROM MOSIAN

YEAR COMPLETED: 2015

LOCATION: BEAVERTON, OR

11,685 SQ.FT.

MEMORY CARE LONG TERM CARE REHABILITATION

MISSION:

PROMOTING THE HEALTH OF THOSE WHO ARE MADE INFIRM BY DISABILITY OR AGE

RESPECTING HUMAN DIGNITY IN THE EXPERIENCE OF SICKNESS

AND DEATH

FOSTERING THE PHYSICAL, PSYCHOLOGICAL, EMOTIONAL, SPIRITUAL, AND SOCIAL WELL-BEING OF PEOPLE.





CONCLUSION:

THIS IS DONE BY CLEAR-STORY WINDOWS AND LARGE-SPAN WINDOWS. BY ALLOWING FOR AMPLE NATURE LIGHT THIS PROVIDES OPPORTUNITIES FOR LESS ARTIFICIAL LIGHTS TO BE USED DURING THE DAY, SAVING ON ELECTRICITY. NATURAL DAY LIGHT ALSO PROVIDES A SOFTER LIGHT TO THE RESIDENTS THAT IS NOT AS HARSH AS ARTIFICIAL LIGHTING OPTIONS. THE USE OF THE WOOD PROVIDES A SOFT AND COMFORTING FEEL TO THE FACILITY THAT ALSO HAS A DESIRABLE AESTHETIC TO IT. PLAYING OFF OF THE USE OF WOOD IS THE USE OF LIGHT COLORS. WITH THE MATERIAL CHOICE AND COLORS USED THIS LIVING FACILITY PROVIDES A CALM AND SOOTHING LOOK THAT CAN OFFER THE RESIDENTS AND SHORT TERM STAY PATIENTS WITH A SENSE OF EASE.



CONCLUSION:

CONSIDERING THE LOCATION AMONG HOUSING UNITS DROVE THE EXTERIOR DESIGN WHICH RESEMBLES MULTIPLE HOUSING UNITS CONNECTED BY CORRIDORS. INTEGRATING ANY DESIGN WITHIN THE COMMUNITY IS IMPORTANT. THIS ALLOWS FOR THE DEVELOPMENT TO CONTINUE KEEP THE RESIDENTIAL LOOK WHILE MAKING THE RESIDENTS OF THE ELDERLY ESTABLISHMENT FEEL AT HOME AS WELL, AS THEY DO NOT STICK OUT VISUALLY. THIS ESTABLISHMENTS CONSIDERED THE IMPORTANCE OF OUTDOOR SPACES. THEY PROVIDE WALKWAYS, SEATING, AND GREEN ELEMENTS. THIS CREATES A COMPLETE SPACE THAT ALLOWS FOR OUTDOOR ENGAGEMENT.

ST BRIEUC'S ELDERLY ESTABLISHMENT:

ARCHITECT: NOMADEARCHI-TECTS

YEAR COMPLETED: 2014

LOCATION: SAINT BRIEUC,

FRANCE

5,000 SQ.FT.

ELDERLY HOUSING

GOALS:

TO INTEGRATE INTO RESIDENTIAL SURROUNDINGS
CREATE A COMFORTABLE AND SOCIAL ENVIRONMENT TO ALL
RESIDENTS RESPECT INDIVIDUALITY AND PRIVACY



ROGRAM

THE PROGRAM FOR THE SENIOR LIVING FACILITY CONSISTS OF TWO DIFFERENT TYPES OF SPACES: ONE PRIVATE TO THE RESIDENTS AND ONE PUBLIC TO THE COMMUNITY. THE GOAL IS TO PROVIDE COMFORTABLE LIVING ACCOMMODATIONS TO SENIORS WHILE PROVIDING THE RESIDENTS AND COMMUNITY SPACES TO ENGAGE AND INTERACT WITH EACH OTHER. THIS INTENTION IS DRIVEN FORM THE IDEA THAT THE TYPES OF SPACES PROVIDED TO SENIORS CAN SHAPE THE TYPE OF LIFESTYLE THEY CHOSE TO PARTICIPATE IN. THEREFORE. MORE INTERACTIVE. PRODUC-BEAUTIFUL SPACES ARE. THE GREAT-TIVE. AND ER CHANCE IT CAN LEAD TO A HEALTHIER LIFESTYLE.

FUNCTION

SINCE THE MOTIVATION OF THE DESIGN WILL BE DRIVEN BY CONSIDERING THE GOAL IS CONNECTIVITY THOUGH ACCESSIBILITY, COMMUNITY, AND TO CONNECT THE RESIDENTS NATURE THE SENIOR LIVING FACILITY MUST PROVIDE FOR TO THE EVERYDAY CONVE-FLUIDITY THROUGHOUT THE EXECUTION OF THE DESIGN NIENCES PROVIDED WITH-WITHIN THE SITE AND EXTENDING INTO THE COMMUNITY. IN THE TOWN THE SENIOR SINCE A FOCUS OF THE DESIGN IS ACCESSIBLE DESIGN THE SE- LIVING FACILITY MUST RE-NIOR LIVING FACILITY SHOULD ALLOW FOR UNIVERSAL USE SPOND WITH PROPER LOCA-TO PEOPLE OF ANY PHYSICAL ABILITY. INCLUDING HANDI- TION WITHIN THE COMMUNITY. CAPPED PEOPLE, THROUGHOUT THE ENTIRETY OF THE DESIGN. SINCE THE PROPOSED LOCA-SINCE A FOCUS OF THE DESIGN IS ON INTEGRATING WITHIN THE TION IS EMPTY THE SENIOR COMMUNITY THE SENIOR LIVING FACILITY SHOULD PROVIDE OP- LIVING FACILITY SHOULD CRE-PORTUNITY TO NOT ONLY SUPPORT THE IMMEDIATE RESIDENTS OF A TE GREENERY BY MEANS THE FACILITY BUT THE RESIDENTS OF THE COMMUNITY AS WELL. OF GARDENS, PATHS, AND

M

SUSTAINABLE DESIGNS.

ECONOMY

SINCE THE PROPOSED SENIOR LIVING FACILITY IS IN THE IS-SAQUAH HIGHLANDS IT MUST PROVIDE OPPORTUNITY FOR ALL-LEVEL INCOME RESI-DENTS, AS IS PROVIDED AMONG THE OTHER HOUSING OPTIONS WITHIN THE COMMUNITY. SINCE THE SENIOR LIVING FA-CILITY IS PROPOSED TO BE CONSTRUCTED IN A NEW UP AND COMING TOWN THAT VAL-INCLUDING ASPECTS LIKE TURE WHILE ALLOWING FOR

SINCE THE SENIOR LIVING FA-CILITY HAS UNDEVELOPED LAND NEXT TO THE PROPOSED SITE, DEDICATED TO FUTURE DEVELOPMENT OF ISSAQUAH HIGHLANDS, THIS LOCATION SHOULD PROVIDE OPPORTU-UES SUSTAINABLE DESIGN NITIES FOR CONNECTIVITY TO THE QUALITY OF MATERIALS, THE DEVELOPMENT IN THE FU-

LEAD TIME, MUST BE OF HIGH THE FUTURE DEVELOPMENT LEVEL ALONG WITH THE CON- TO FURTHER SUPPORT THE SIDERATION OF CONSTRUC- GOALS OF A SENIOR LIV-TION MANAGEMENT, WASTE ING FACILITY ALONG WITH CONTROL, AND RECYCLABILITY. THE COMMUNITY OF IS-SAQUAH HIGHLANDS ITSELF. SINCE THE LIVING FACILI-TY HAS MANY PURPOSED GREEN FEATURES AMONG THE SITE THE SENIOR LIVING / ASSISTED LIVING FACILITY SHOULD PROVIDE OPPORTU-NITY FOR GROWTH AND FU-TURE SUSTAINABLE DESIGNS.

SPACE LIST

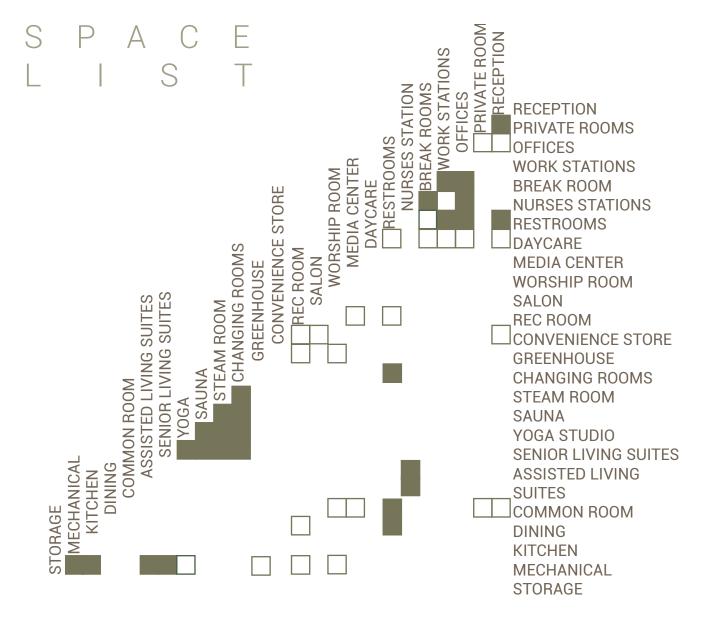
Function	People	Capacity	No. of Units	Area/Units	Net Area	Net Area Subtotal
Entry						
Reception/Displays	4	8	1			
Subtotal						
Staff Services						
Private rooms	3	5	2	200	400	
Offices	3	3	2	250	500	
Work Stations	3	3	3	300	900	
Break Room	3	8	1	450	450	
Nurses Stations	5	5	2	450	1000	
Restrooms	1	1	2	110	220	
Daycare	10	10	1	850	850	
Subtotal		35			4,320	
Residential Ammenities	S					
Library/Media Center	10	10	1	580	580	
Worship room	15	30	1	450	450	
Salon	3	3	1	280	280	
Rec Room	30	50	1	1,500	1,500	
Convenience Store/Café	12	12	1	300	300	
Green House	8	8	1	300	300	
Subtotal		78			3410	
Wellness Center						
Changing Room	6	12	2	400	800	
Steam room	6	6	1	200	200	
Sauna	2	8	2	100	200	
Yoga/Aerobic Studio	15	15	2	1500	3000	
Bathroom	6	6	2	145	290	
Subtotal		47			4,490	
Living Spaces						
Residential Suite 1	20	40	20	920	18,000	
Residential Suite 2	10	20	10	1,230	12,300	
Assisted Living Suites	12	24	12	760	9,120	
Common Room	30	50	1	700	700	
Subtotal		104			22,138	
Residential Dining						
Seating	45		1			
Serving	2		1			

LAND USE REQUIREMENTS

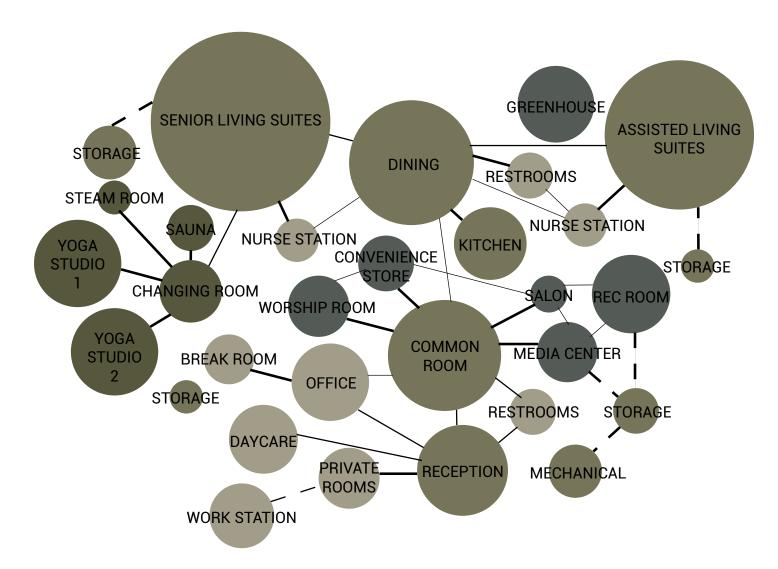
Land Use Area	PHASE 1							
	PEOPLE	GROSS AREA	FLOOR	BUILDING FOOTPRINT	GAC	LAND AREA		

SENIOR LIVING FACILITY		PEOPLE					
Senior Living Parking		140	34,358	3	17,179	14%	124,000
j	Staff	30	11,400	1	11,400	9%	124,000
RE	SIDENTS	50	19,000	1	19,000	15%	124,000
	Visitor	15	5,700	1	5,700	5%	124,000
	Service	1	380	1	380	1%	124,000
		140	70,838		104,959		

FIGURE 22



S P A C E C O N C E P T



KEY

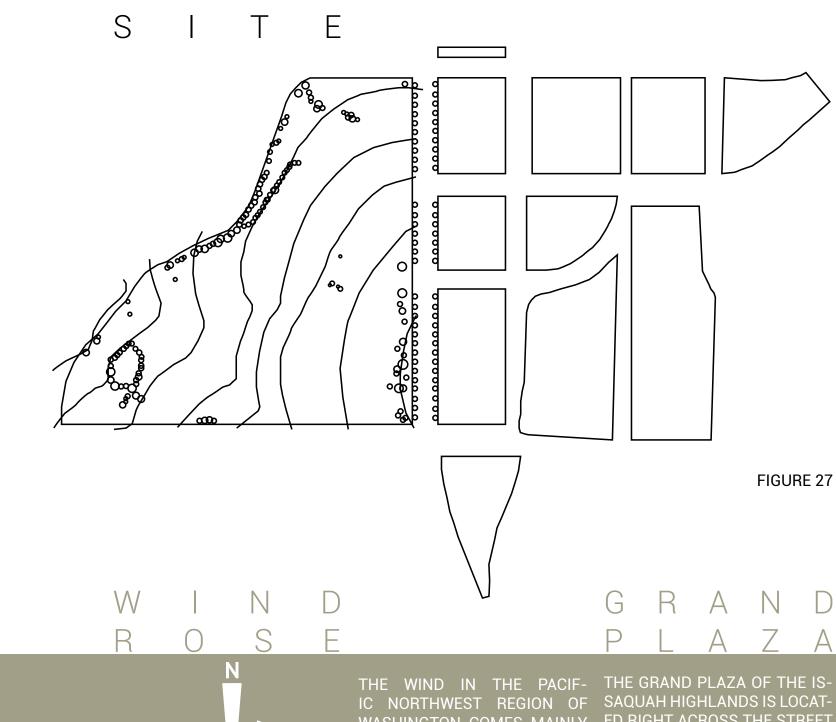
MANDATORY

DESIRABLE

KEY
STRONG CONNECTION
MEDIUM CONNECTION
LIGHT CONNECTION
PRIVATE CONNECTION

SITE:

NARRATIVE THE SITE IS ONE OF THE DRIVING FACTORS IN THIS THESIS, THIS SITE WAS CHOSEN BECAUSE IT MET ALL THE REQUIREMENTS I NEEDED TO SUPPORT THE DESIGN INTENTIONS.THIS SITE IS SURROUNDED BY THE INFRASTRUCTURE TO SUSTENANCE THE TYPOLOGY CHO-SEN FOR THIS THESIS WHILE INCLUDING THE DESIRED VISTAS AND VEGETATION DESIRED. THIS SITE IS LOCATED IN A REGION I HAVE NEVER RESEARCHED BEFORE THEREFORE LEARNING ABOUT THE SUSTAINABLE TECHNOLOGIES OF THE PLACE WILL GREATLY IMPACT THE OVERALL DESIGN. THE SITE IS NOW VACANT, BESIDES LITTLE PLANT LIFE, AND IS DESIGNATED AS FUTURE DEVELOPMENT TO THE TOWN, THEREFORE NO EXISTING STRUCTURES WILL BE DISTURBED BY THIS THE-SIS. THIS THESIS WILL EXAMINE WAYS TO INCORPORA-TEELEMENTS OF THE SURROUNDING TOWN WHILE INTE-GRATING IT INTO THE NATURAL ELEMENTS OF THE PLACE.



LOCATION

COUNTY: KING COUNTY

INCLUDES 2,117,125 PEOPLE WITH 12.4% OF THOSE PEOPLE BE-ING 65 YEARS AND OLDER.

ISSAQUAH HIGHLANDS. WA 98029

HOUSES A POPULATION OF 34,950 PEOPLE. THERE AREA TOTAL OF 4 SENIOR LIVING FACILITIES AND ONLY 1

ASSISTED LIVING FACILITIES WHICH PROVIDE OPPORTUNITY FOR THE NEED OF SENIOR HOUSING.

"ISSAQUAH HIGHLANDS COMBINES THE CONVENIENCE AND EX-CITEMENT FOUND IN DENSE CITIES WITH THE QUALITY OF LIFE FOUND IN THE SUBURBS. ENVIRONMENTALLY SENSITIVE WITH SAFE NEIGHBORHOOD, EXCELLENT SCHOOLS, AND MANY RECRE-ATIONAL OPPORTUNITIES-OUR COMMUNITY PROVIDES AN IDEAL PLACE FOR YOU AND PLAY."

THE QUALITIES THAT ARE VALUED IN THE HIGHLANDS ARE THE QUALITIES THAT WOULD SUPPORT THE DESIGN OF THE PRO-POSED SENIOR LIVING FACILITY.



SAMMAMMISH

LAKE

FIGURE 25

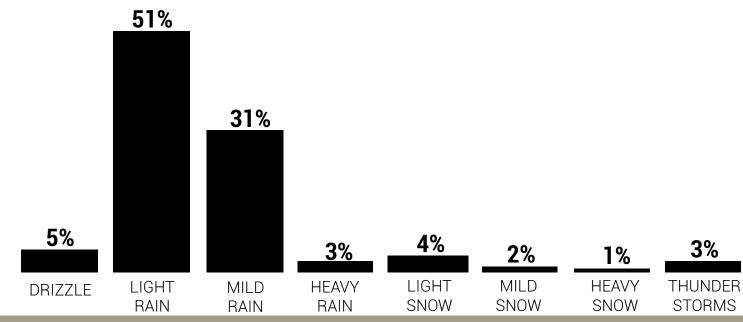


WASHINGTON COMES MAINLY FROM THE SOUTHWEST BE-CAUSE OF THE COASTAL WINDS COMING UP FORM THE SOUTH WHICH IS WHY THE TEMPERA-TURES ARE SO MILD FOR BE-ALSO WINDS THAT DO BLOW DOWN FROM THE NORTH THAT BRING IN THE COLD CLIMATES. WITH THESE WINDS SUSTAIN-ABLE STRATEGIES LIKE WIND AN CROSSWALKS. HARVESTING FOR ENERGY PURPOSES ARE OPTIONS TO BE EXPLORED INTO FURTHER FIGURE 28 THROUGHOUT THIS THESIS.

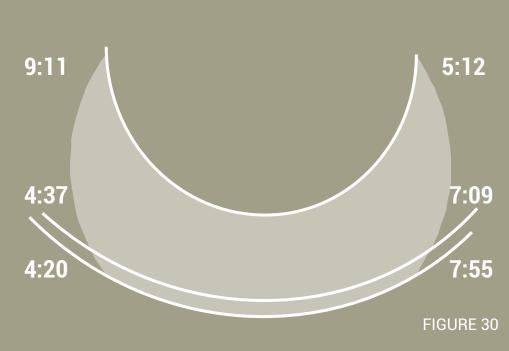
ED RIGHT ACROSS THE STREET FROM THE PROPOSED THESIS SITE, THIS PLAZA HAS CONVE-NIENCES THAT WILL SUPPORT THE DEMAND OF THE SENIOR LIVING FACILITY. TO CROSS ING IN THE NORTH. THEIR ARE THE STREET TO REACH THE **GRAND PLAZA RESIDENTS AND** VISITORS MUST CROSS A ONE-WAY STREET THAT PROVIDES PROPER AND SAFE PEDESTRI-



W E A T H E R P A T T E R N S







AS IN ANY LOCATION THE TIMES THAT THE SUN RISE AND SET THROUGHOUT THE YEAR CHANGE DRASTICALLY. IN THE WESTERN WASHING-TON AREA SPECIFICALLY THE MOST DRASTIC TIME DIFFER-ENCE BETWEEN THE SUNSET IS 4 HOURS AND 51 MINUTES WHILE THE DIFFERENCE BE-TWEEN THE SUN RISE IS NOT AS DRASTIC WITH A DIFFERENCE OF 1 HOUR AND 43 MINUTES. THIS ALLOWS FOR A MAXIMUM OF 11 HOURS AND A MINIMUM OF 7 HOURS AND 25 MINUTES.

THE PACIFIC NORTHWEST IS KNOWING SPECIFICALLY FOR THEIR RAINY BUT MILD WEATH-ER PATTERNS THROUGHOUT THE ENTIRE YEAR. THIS AL-LOWS FOR EXPLORATION INTO SUSTAINABLE STRATEGIES THAT RELY HEAVILY ON RAIN-WATER COLLECTION FOR THIS THESIS. THIS WILL MOST LIKE-LY THE MOST EXPLORED SUS-TAINABLE STRATEGY SOLELY BECAUSE IT MAKES THE MOST SENSE FOR THIS CLIMATE. RAINWATER CAN BE HARVEST-ED AND USED FOR THE BENE-FIT OF THE RESIDENTS.

FIGURE 31

42



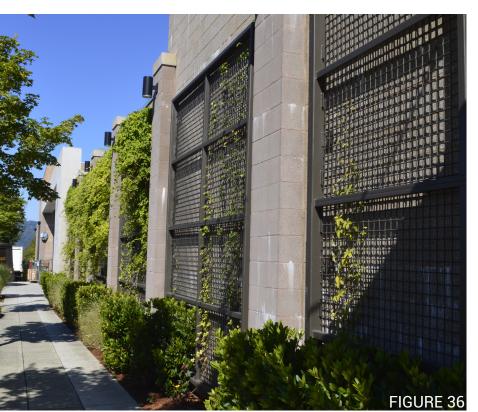
SUSTAINABLE STRATEGIES

THE HIGHLANDS HAVE A SET OF SUSTAINABLE STANDARDS, THESE STANDARDS ARE FOUND WITHIN THE COMMUNITY IN ALL THE BUILDINGS ALREADY DESIGNED AND ARE REQUIRED FOR ANY FUTURE DEVELOPMENT IN THE CITY. THESE ARE THE BASE LINE OF SUSTAINABLE APPLICATIONS THAT MUST BE MET, BUT THERE IS OPPORTUNITIES TO APPLY FURTHER SUSTAINABLE STRATEGIES THAT ARE NOT INCLUDED IN THE SET STANDARDS.

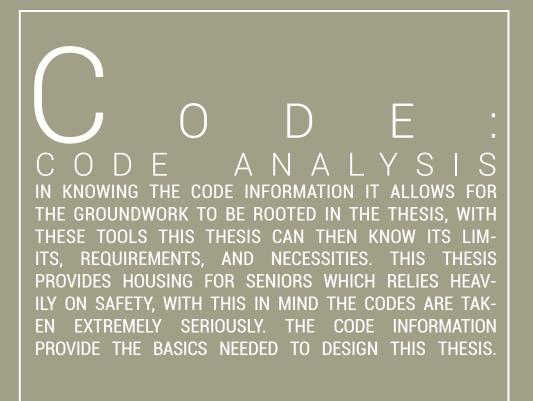












CLASSIFICATION: RESIDENTIAL MINIMUM:

K-4

CORRIDOR/AISLE WIDTH 36" EXIT DOORS 32" STAIR WIDTH44"

CONSTRUCTION TYPE: PROTECTED WOOD FRAMING V-A

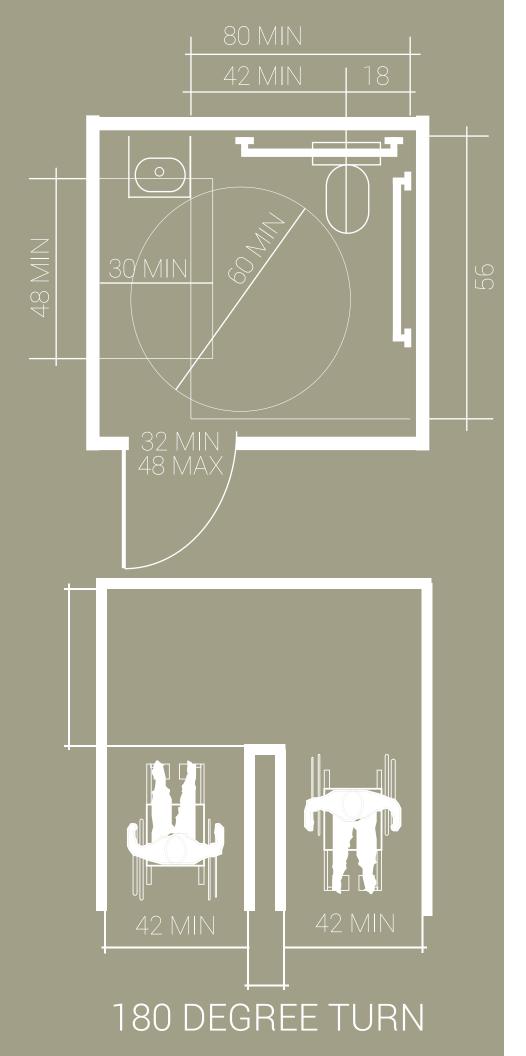
MAXIMUM TRAVEL DISTANCE TO EXIT 250 FEET

FIRE RATING RESISTANCE RE-QUIREMENTS: 1 HOURS EXTERIOR WALLS STRUCTURAL FRAMING FLOOR/CEILING/ROOF

ALLOWABLE STORIES ABOVE GRADE

ALLOWABLE HEIGHT ABOVE GRADE

OCCUPANCY: 180



LANFOR PROCEEDING:

THE RESEARCH OF THIS THESIS WILL BE CONDUCT ED IN MULTIPLE AREAS, THIS WILL BE DONE THROUGH OUT THE PROJECTS DEVELOPMENT. THE RESEARCH WILI CONTINUE TO FOCUS ON THE KEY COMPONENTS OF THE THESIS INCLUDING PROJECT TYPOLOGY, SITE AND CLI MATE, PROGRAMMATIC REQUIREMENTS AND HEALTH' AGING METHODS, ETC. THE STUDY OF HOW SPAC ES CAN AFFECT PEOPLE AND THEIR PRODUCTIVITY WILL CONTINUE TO BE AN EMPHASIS IN RESEARCH

ESIGN METHODOLOGY

DESCRIPTIVE RESEARCH

THE DESIGN METHODOLOGIES USED WILL BE A COMBINATION OF DESCRIPTIVE RESEARCH IN-DESIGN RESEARCH AND DESCRIPTIVE RESEARCH COLLECTIVE- CLUDES QUANTITATIVE AND LY THESE METHODS WILL PROVIDE A DEEP UNDERSTANDING QUALITATIVE DATA BOTH TO BE OF THE RESEARCH AND DESIGN INTENTIONS OF THIS THESIS.

RESEARCH

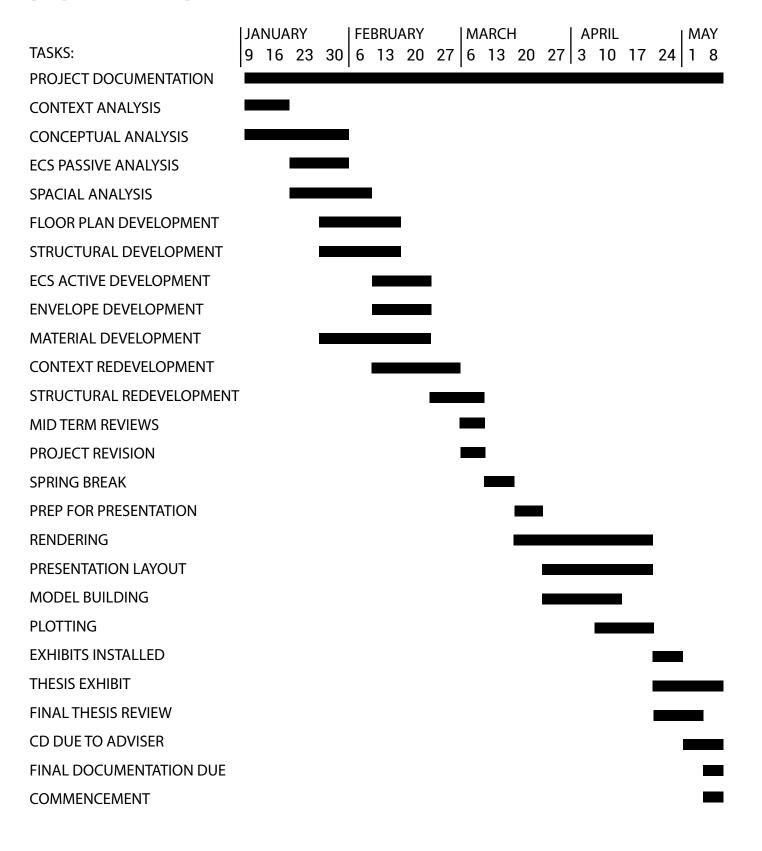
THIS METHOD WILL BE USED THROUGHOUT THE COMPLETION ALONG WITH DIRECT OBSER-OF THE THESIS TO PROVIDE FURTHER UNDERSTANDING OF FORM AND FUNCTION. THROUGH EXPLORATION OF DESIGN AND DATA WILL BE ANALYZED AND REDESIGN IT WILL ALLOW FOR THE PIECES THAT WORK TO BE COLLECTIVELY ARCHIVED FOR STRATEGICALLY PIECED TOGETHER WHILE ELIMINATING THE EL-EMENTS THAT DO NOT ADD TO THE UNDERLYING IDEAS OF THIS ENCE THROUGHOUT THE DE-THESIS. THIS TYPE OF STUDY WILL BE DONE THROUGH MEANS SIGN PROCESS. BY USING THIS OF INVESTIGATING CONCEPTS, SKETCHES, MODELS, ETC. THE METHOD OF RESEARCH IT WILL DESIGN RESEARCH METHODOLOGY IS NECESSARY IN THE FIELD ALLOW FOR SPECIFIC TOPICS OF ARCHITECTURE TO BE ABLE TO PRODUCE A VISUAL UNDER-STANDING OF THE CONCEPT THAT IS THEORIZED. THIS METHOD MATE ZONE, HEALTHY AGING, WILL PROVIDE A VISUAL UNDERSTANDING OF EACH PHASE OF ETC. DOCUMENTATION OF THE THE PROCESS UNTIL THE FINAL DESIGN IS CONCEPTUALIZED. IN THE END THIS METHOD WILL ALLOW FOR COMPONENTS SUPPORT THIS THESIS WILL THAT DISPLAY A HIGHER AND MORE EDUCATED DESIGN BE PROPERLY GIVEN CREDIT TO MAKE UP THE THESIS COMPLETELY WHILE PRODUC-ING A DESIGN RESEARCH METHODOLOGY TYPE PROJECT. THROUGHOUT THIS BOOK.

USED AS SUPPORTING INFOR-MATION PERTAINING TO THE THESIS OBJECTIVE. THIS TYPE OF RESEARCH WILL ALLOW FOR A COLLECTION OF STATIS-TICAL AND SCIENTIFIC DATA VATION AND INTERVIEWS. THIS CONTINUED USE AND REFER-INCLUDING TYPOLOGY. CLI-DIRECT INFORMATION USED TO THROUGH MEANS OF CITATION

D O C U M E NTATION OF DESIGN

THE DOCUMENTATION OF THIS THESIS WILL BE AN ONGOING COMBINATION OF THE FOL-LOWING METHODS: SKETCH-ES, TEXTS, PHOTOS, MODELS, COMPUTER BIM PROGRAM-MING, ETC. A DIGITAL COPY OF THE COMPLETE SET OF DOCUMENTATIONS WILL BE AVAILABLE TO THE UNIVERSI-TY UPON COMPLETION OF THE PROJECT. ALONG WITH A DIG-ITAL COPY WILL BE A PHYSI-CAL DISPLAY INCLUDING A FI-NAL CONTEXT MODEL, A FINAL BUILDING MODEL. WITH PRE-SENTATION BOARDS DISPLAY-ING DESIRED RENDERINGS AND INFORMATION.

SCHEDULE



HSIS:

HOW CAN ARCHITECTURE ENGAGE AND ENCOURAGE SENIORS TO LEAD A HEALTHY AND POSITIVE LIFESTYLE?

9 O A L :

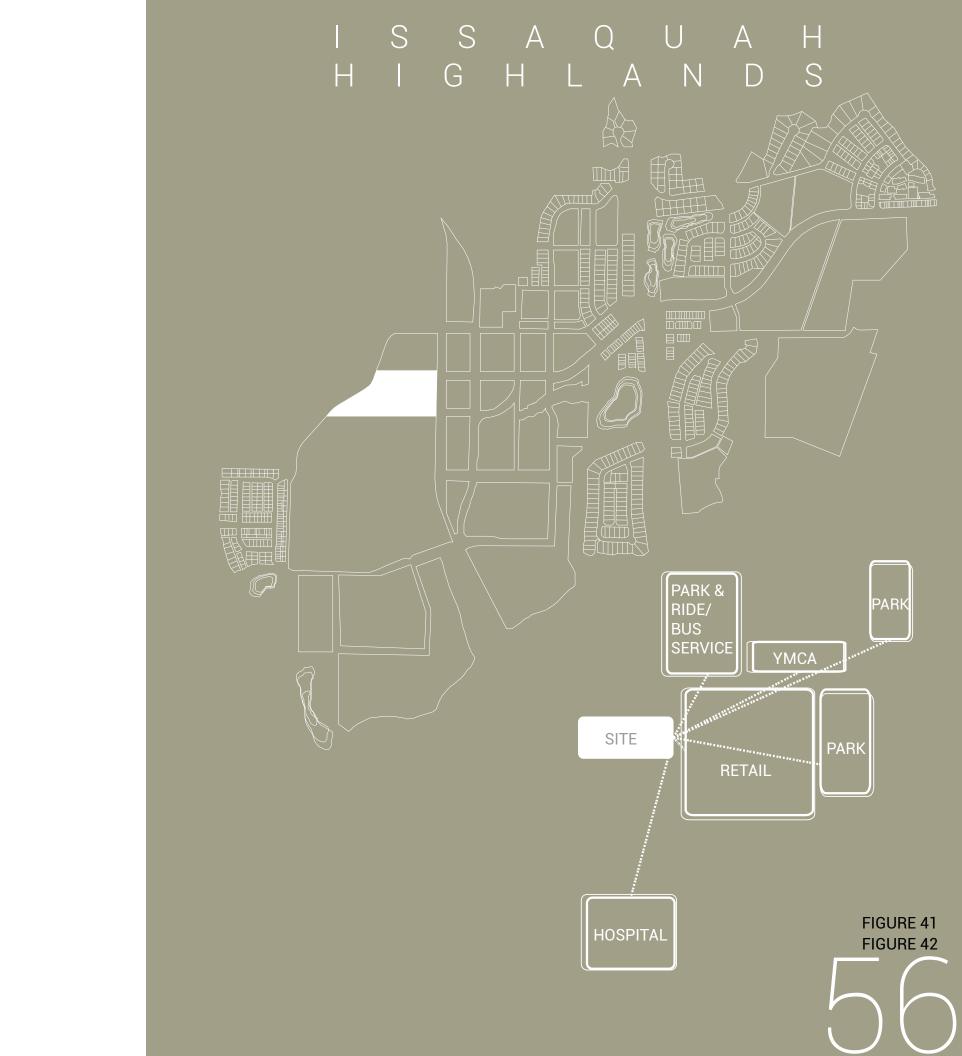
TO ACTIVATE SENIORS MINDS AND BODIES TO MAINTAIN HEALTH AND HAPPINESS IN ORDER TO PREVENT DEGENERATION.

T Y P O L O G Y:

INDEPENDENT SENIOR LIVING COMMUNITY

JUSTIFICATION:

- DEMAND
- AFFECTS MOST PEOPLE
- NEED FOR REDEFINITION
- IMPROVE THE STIGMA
- -SITE RELAVENT







RESEARCH

WHAT ARE THE NEEDS
THAT MUST BE MET TO
ALLOW FOR SENIORS
TO MAINTAIN THEIR
HEALTH AND HAPPINESS?

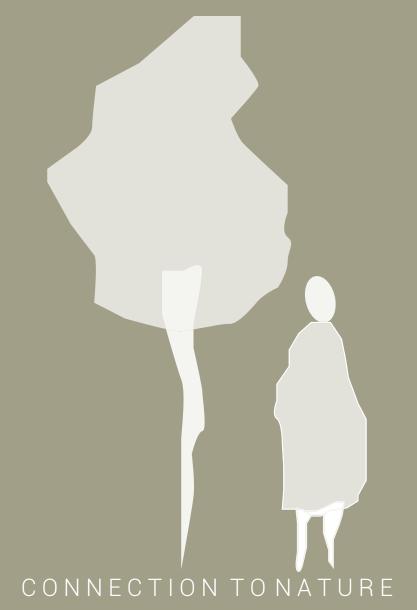


SENSE OF PURPOSE



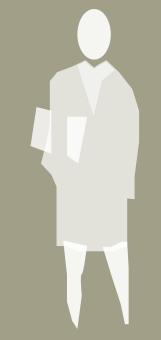
PHYSICALPARTICIPATION



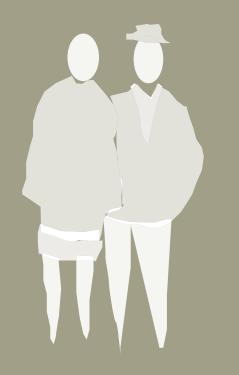








NEW EXPERIENCES AND KNOWLEDGE



SENSEOFBELONGING



SOCIAL NETWORK

P ROGRAMMING

RECEPTION PRIVATE ROOMS OFFICES WORK STATIONS **BREAK ROOM** NURSES STATIONS RESTROOMS DAYCARE MEDIA CENTER WORSHIP ROOM SALON **REC ROOM** CONVENIENCE STORE GREENHOUSE CHANGING ROOMS STEAM ROOM SAUNA YOGA STUDIO SENIOR LIVING SUITES ASSISTED LIVING SUITES COMMON ROOM DINING **KITCHEN** MECHANICAL STORAGE

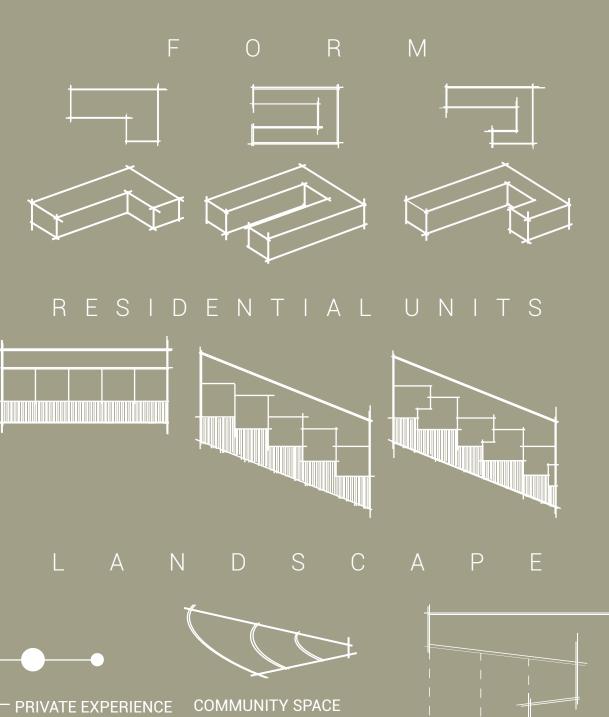
RECEPTION PRIVATE ROOMS OFFICES WORK STATIONS **BREAK ROOM** NURSES STATIONS RESTROOMS DAYCARE MEDIA CENTER WORSHIP ROOM— SALON REC ROOM CONVENIENCE STORE GREENHOUSE CHANGING ROOMS STEAM ROOM SAUNA YOGA STUDIO SENIOR LIVING SUITES ASSISTED LIVING SUITES COMMON ROOM DINING KITCHEN

MECHANICAL

STORAGE

STORAGE UNITS
WOODSHOP
AROBIC STUDIO
CARDIO ZONE
LOUNGING NOOKS
CLUBHOUSE
THEATER
CAFE
SENSORY GARDEN
COMMUNITY GARDEN
OUTDOOR CLASS
FIREPIT
PLAYGROUND
MULTI-USE ROOM

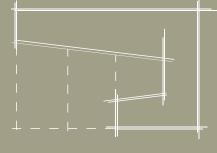
ROCESS



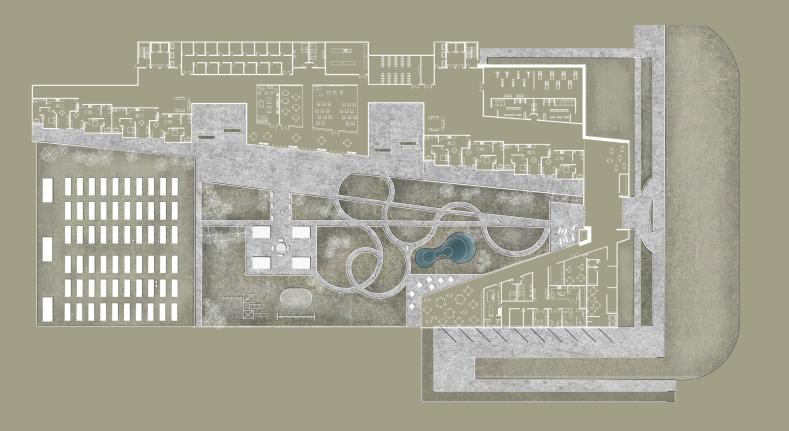


PUBLIC — PRIVATE EXPERIENCE

MULTI-USE/PURPOSE SPACE INTIMATE SPACE

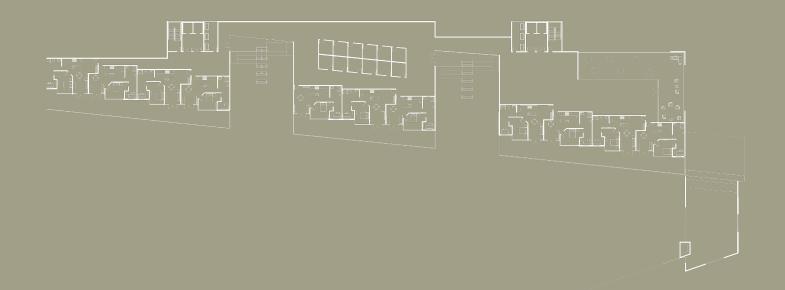


DESIGN





THIRD FLOOR













SAMANTHA BAIERL

CONTACT INFORMATION

PHONE: 715.781.6306

EMAIL: SAMANTHA. BAIERL@NDSU. EDU

I HAVE ALWAYS HELD AN INTEREST IN ARCHITECTURE, SINCE I WAS YOUNG I CONSISTENTLY LOOKED UP WHEN WALKING INTO A BUILDING TO SEE WHAT IT IS ALL ABOUT. GROWING UP I WAS ALSO FAIRLY ARTISTIC, AND HAD AN APPRECIATION FOR THE BEAUTY THAT CAN BE CREATED AND EXPLORED. THEREFORE, I PUT TO OF MY DEEP INTERESTS TOGETHER AND CHOOSING ARCHITECTURE FOR A MAJOR WAS A NO BRAINIER. THROUGHOUT MY COLLEGE CAREER I LEARNED ABOUT ARCHITECTURE AND MORE. THIS PROGRAM CHALLENGED ME IN MY DESIGN ABILITIES AND TIME MANAGEMENT, TWO THINGS I WILL TAKE WITH ME THROUGHOUT MY DESIGN CA-

RFFR

References:

- "AGED CARE ACTIVITIES." PINTEREST. N.P., N.D. WEB. 10 DEC. 2016.
- "AVERAGE WEATHER FOR SEATTLE, WASHINGTON, USA WEATHERSPARK." N.P., N.D. WEB. 19 OCT. 2016.
- "BALLOONS, COLORFUL, CROWD, PEOPLE, PHOTOGRAPHY IMAGE #130363 ON FAVIM.COM." N.P., N.D. WEB. 10 DEC. 2016.
- "ISSAQUAH, WA OFFICIAL WEBSITE POPULATION." N.P., N.D. WEB. 19 OCT. 2016.
- "ISSAQUAH, WASHINGTON." N.P., N.D. WEB. 19 OCT. 2016.
- "ISSAQUAH, WASHINGTON CLIMATE." HTTP://WWW.BESTPLACES.NET. N.P., N.D. WEB. 19 OCT. 2016.
- "MARYVILLE." N.P., N.D. WEB. 9 DEC. 2016.
- "OLD PEOPLE PHOTOGRAPHY SENIOR CITIZEN SELF-CONSCIOUSNESS." WED DING PHOTOG RAPHER LONDON GUY
- MILNES PHOTOGRAPHY. N.P., 8 MAR. 2013. WEB. 10 DEC. 2016.
- "POPULATION ESTIMATES, JULY 1, 2015, (V2015)." N.P., N.D. WEB. 19 OCT. 2016.
- "ST BRIEUC'S ELDERLY ESTABLISHMENT." ARCHITIZER. N.P., N.D. WEB. 20 SEPT. 2016.
- "STRUCTURAL TYPE OF DWELLING AND COLLECTIVES REFERENCE GUIDE, 2011 CENSUS." N.P., N.D. WEB. 21 SEPT. 2016.
- "WOODLAND HILL SENIOR LIVING COMMUNITY IN HUDSON, WI OFFERING SE NIOR APARTMENTS, ASSISTED LIVING AND SPECIALTY CARE." N.P., N.D. WEB. 9 DEC. 2016.