



3 BLUEBIRDS FARM

TEAM 6
STANTEC INTERN PROJECT 2022

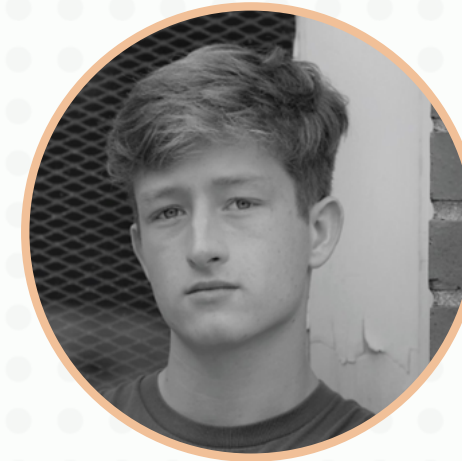
THE TEAM



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Centennial College
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discipline



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Mechanical Engineering

PROMPT

PLAN

- offer a planned residential farm community with up to 25 on-site residents and full-time caregivers
- resident homes will house 4-5 individuals with 2-3 staff members in each location
- place to still host camp
- on-site micro-businesses will serve two main purposes: Vocational opportunities for our participants, as well as revenue for operational expenses
 - include an on-site farm stand, farmer's market, shared community gardens for local farmers & restaurants, and an artisan shop for participants to sell their artwork

GROUP B
Sensory Garden
Events Barn
Teen Program Building
Adult Program Building
Wood Working & Art/Pottery
Nature Walk
Existing Pond (south)

THE FARM



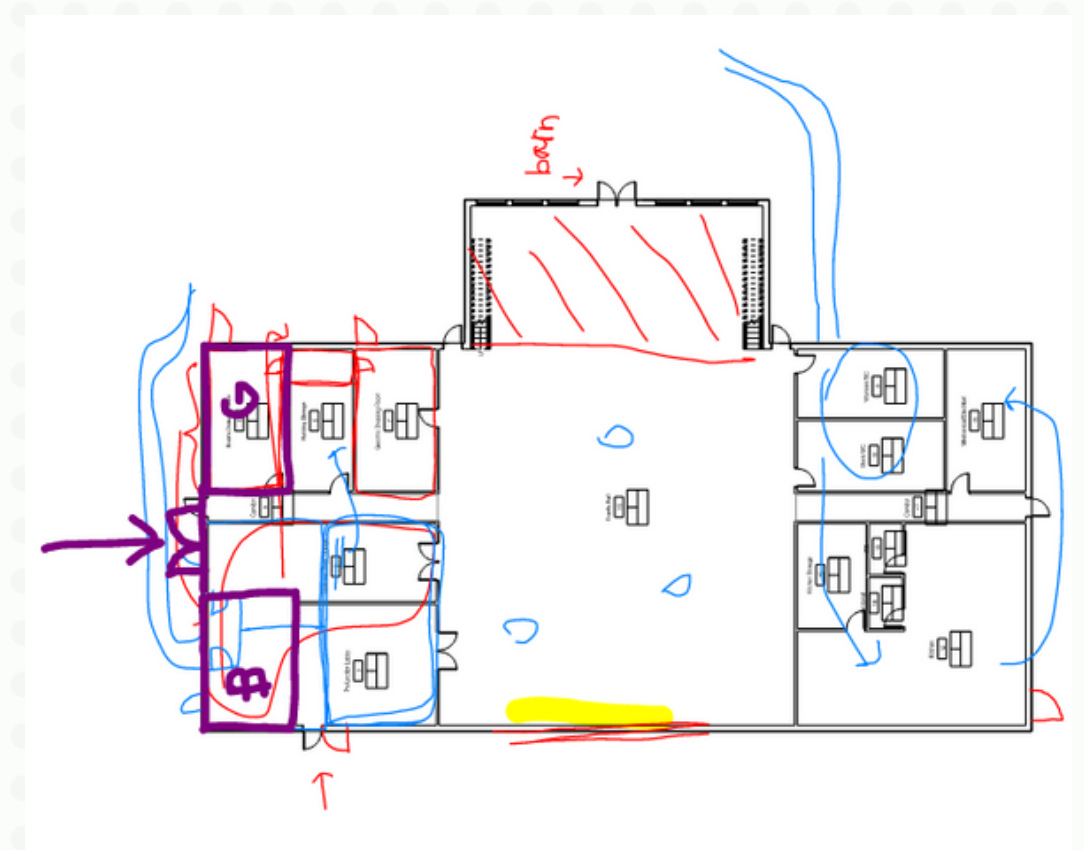
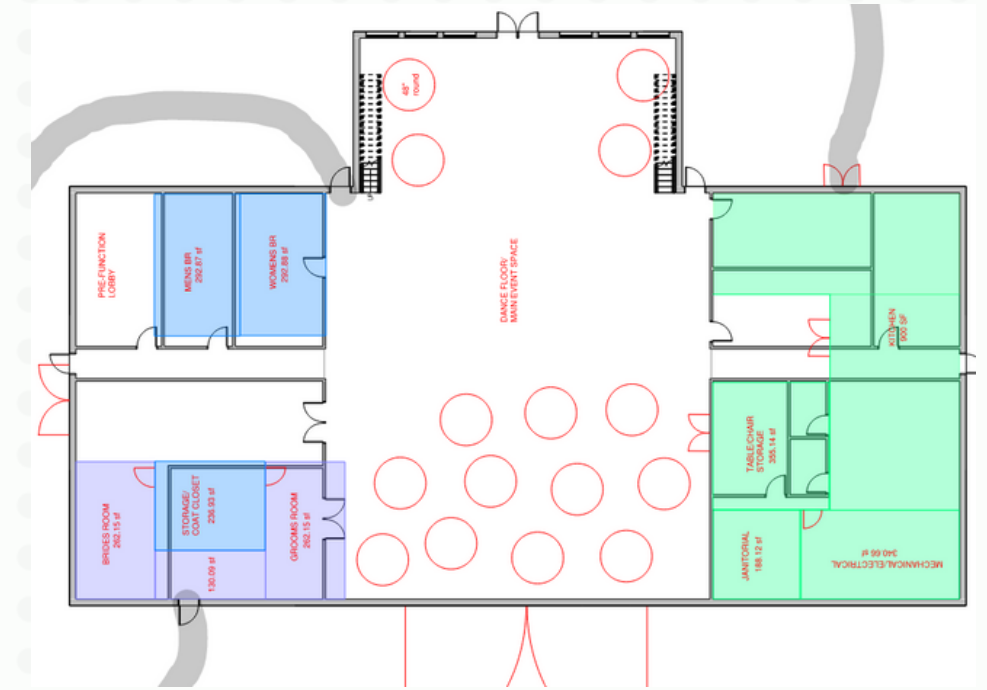
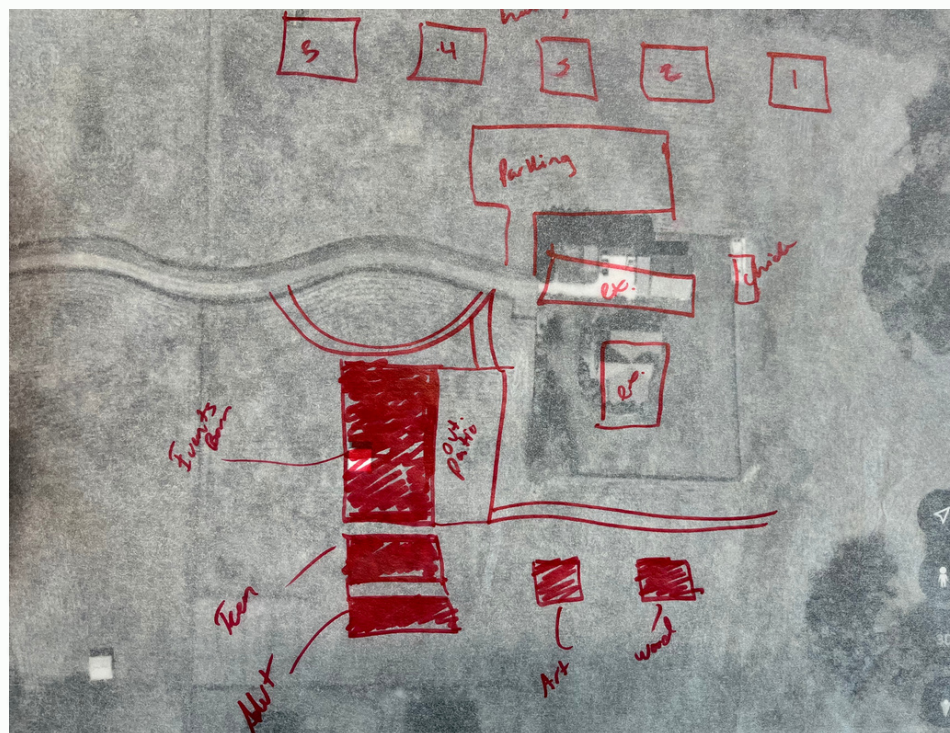
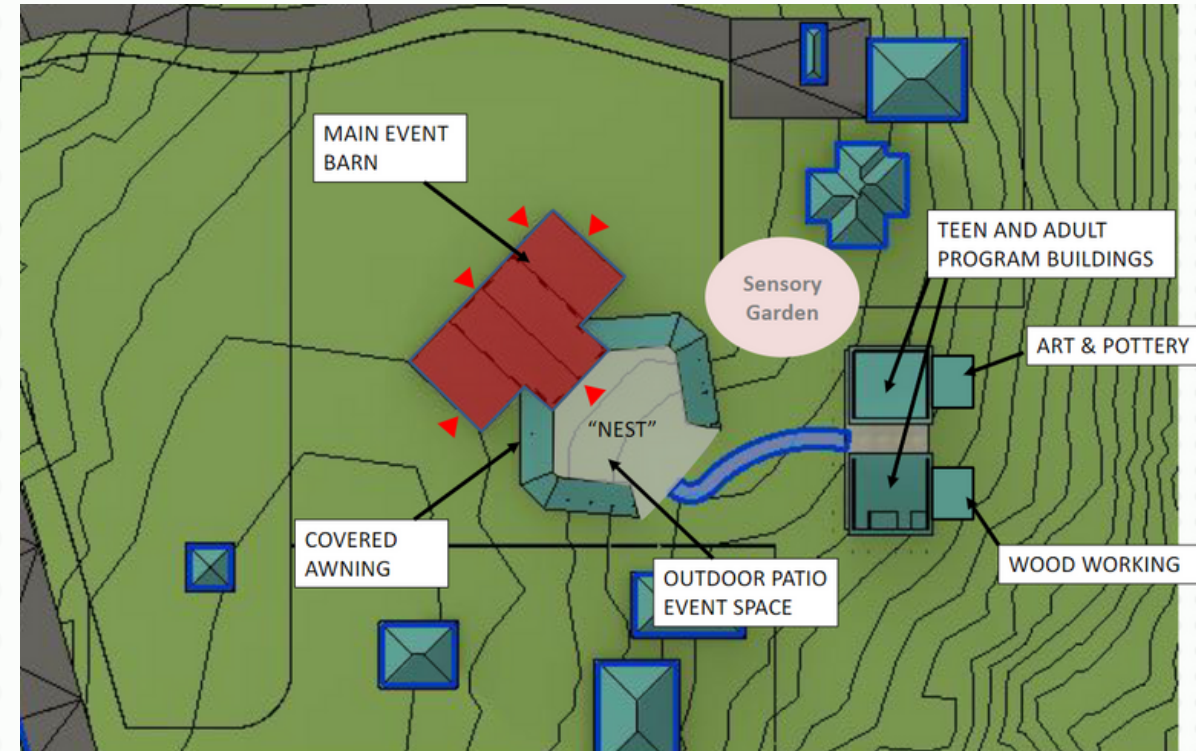
SITE PLAN

3 Bluebirds Farm

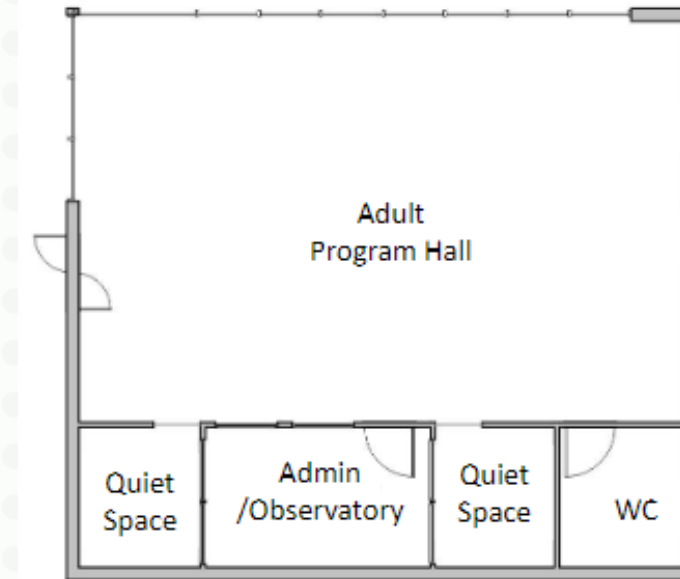
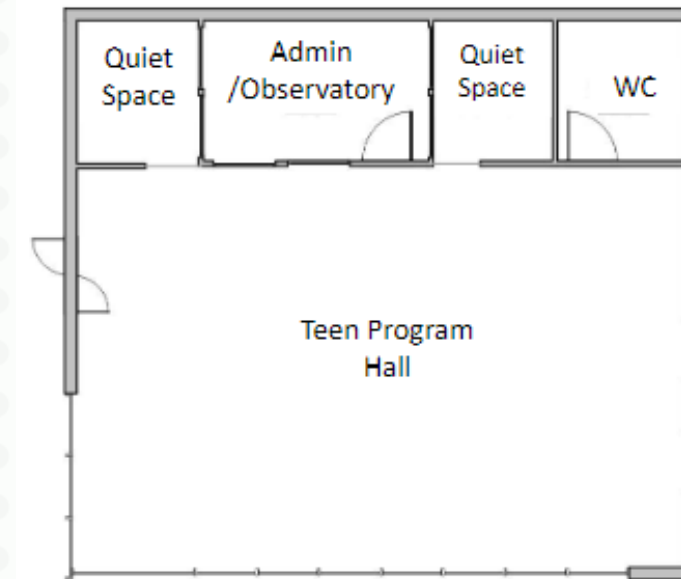
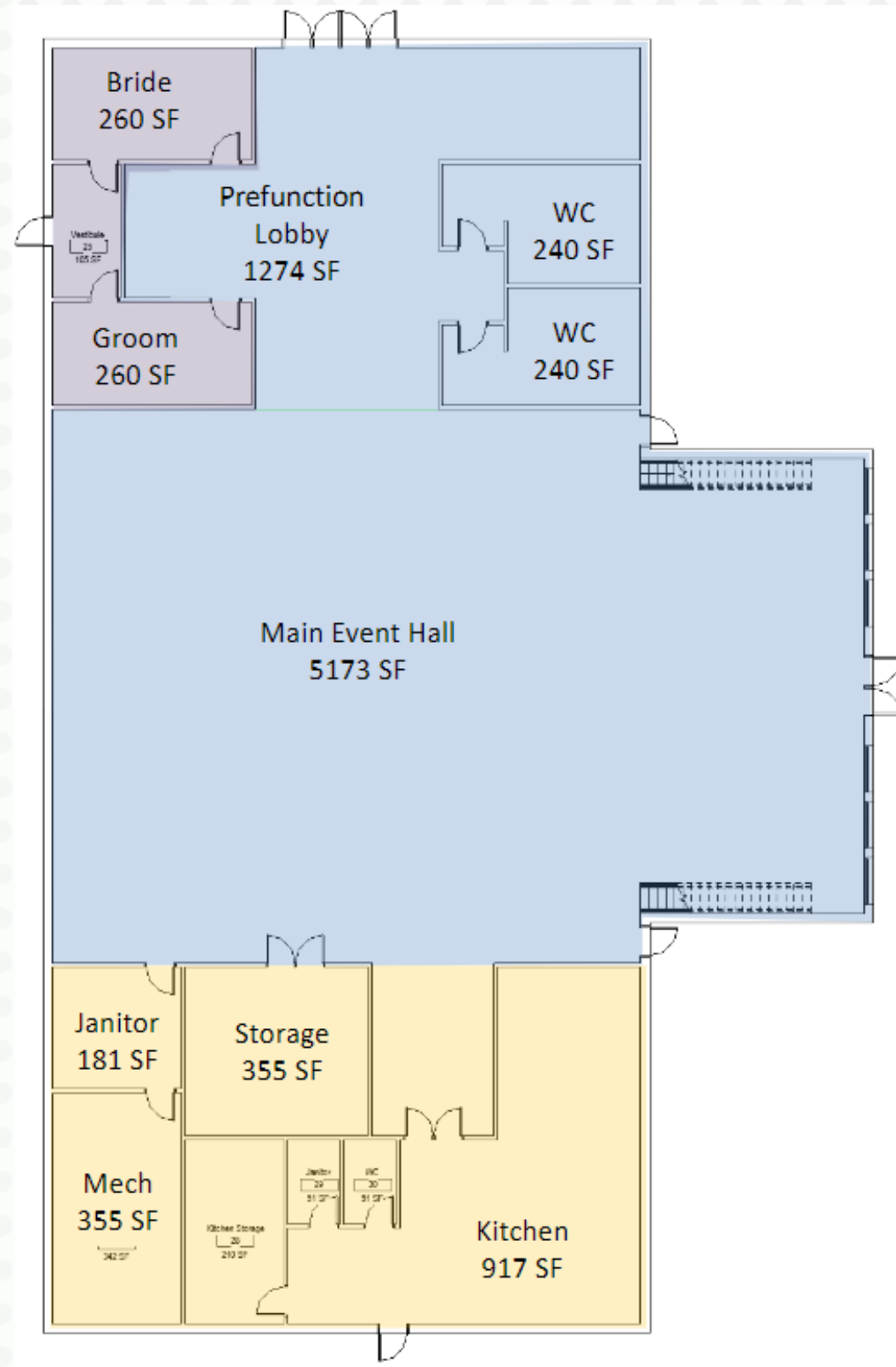
Horse Creek Rd

Holland Church Rd

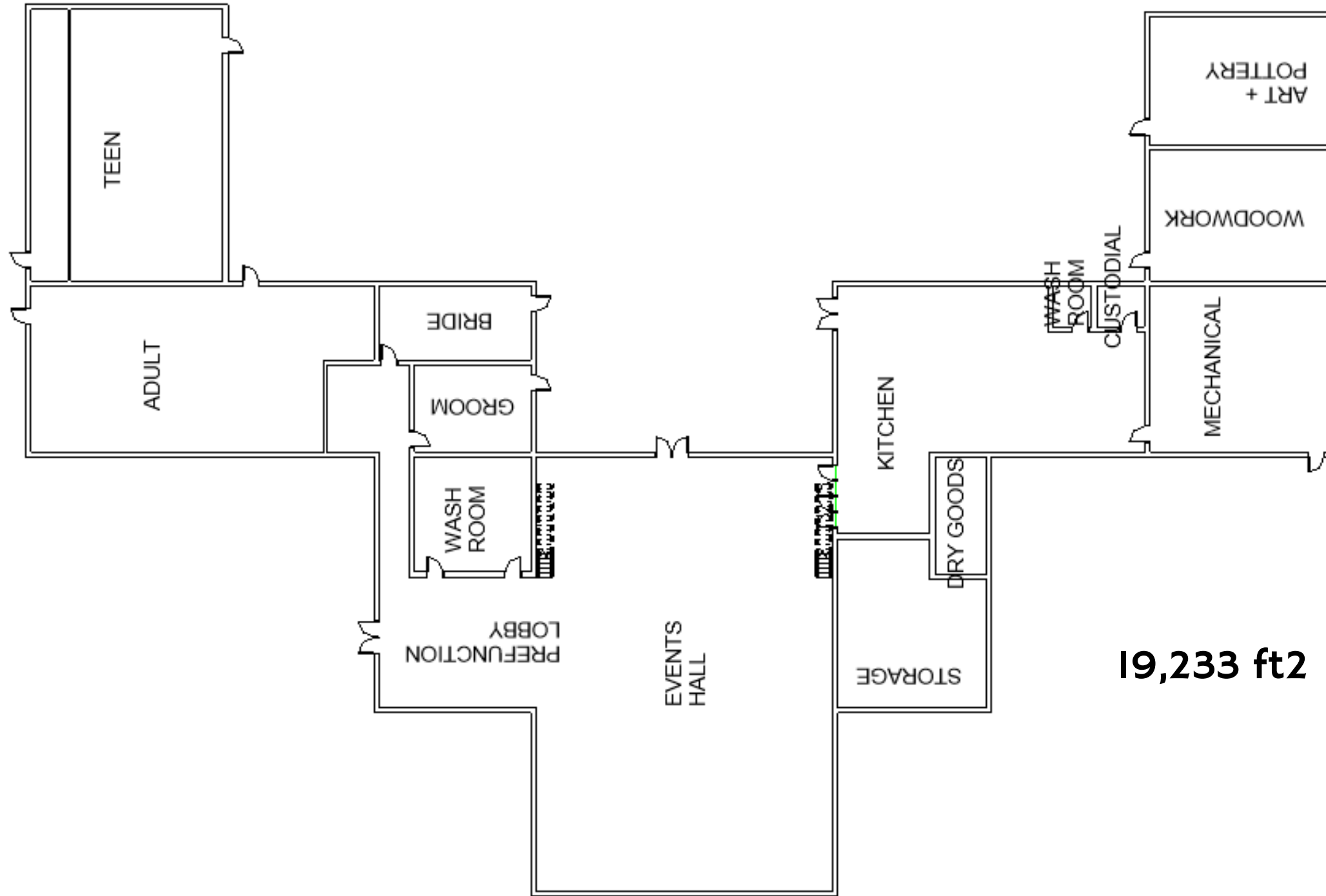
PROCESS WORK



SCHEMATIC FLOORPLANS



FINAL FLOORPLANS



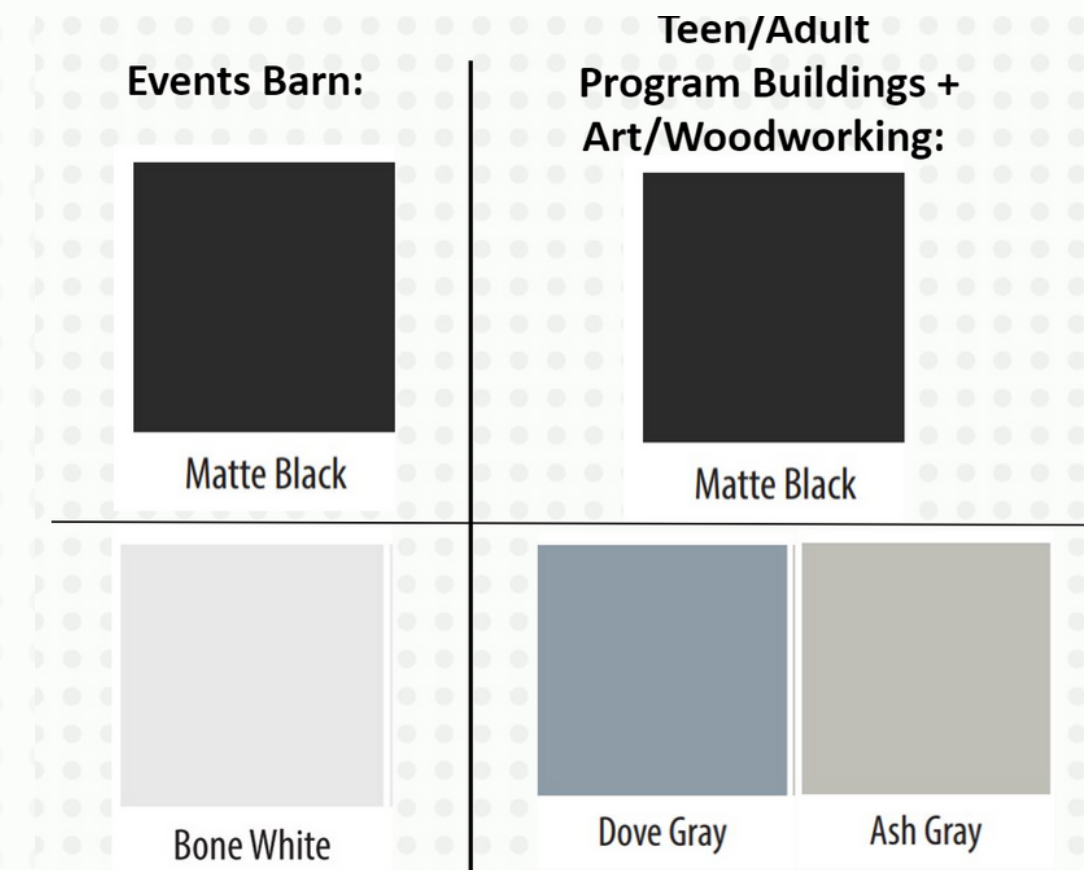
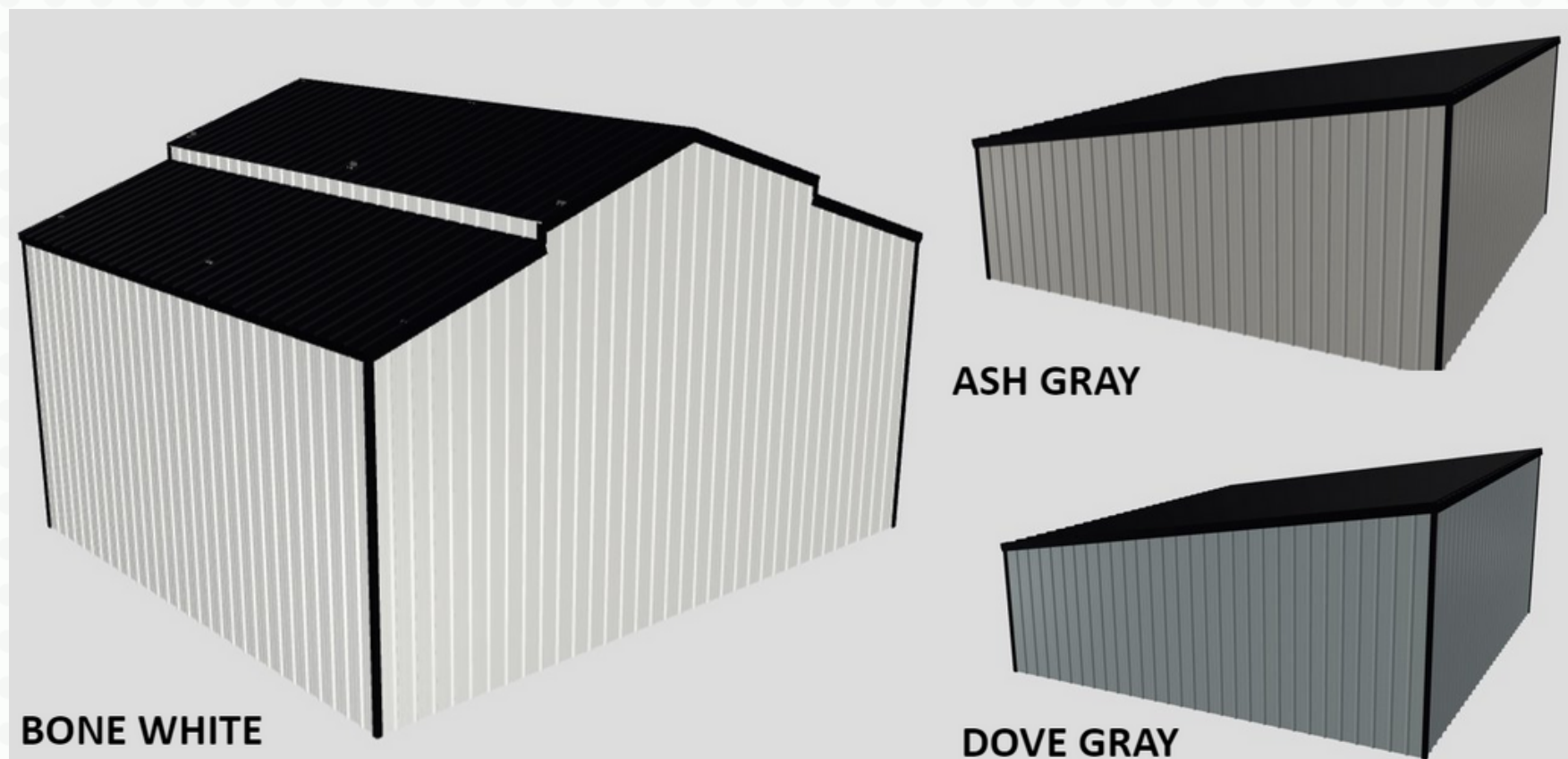
EXTERIOR MATERIALS

Metal Siding:

- Western Metal Vertical Siding: PBR Panel / R Panel (Exposed Fastner)

Metal Roof:

- Western Metal PBR Panel –Metal Roofing Panels (Exposed Fastner)

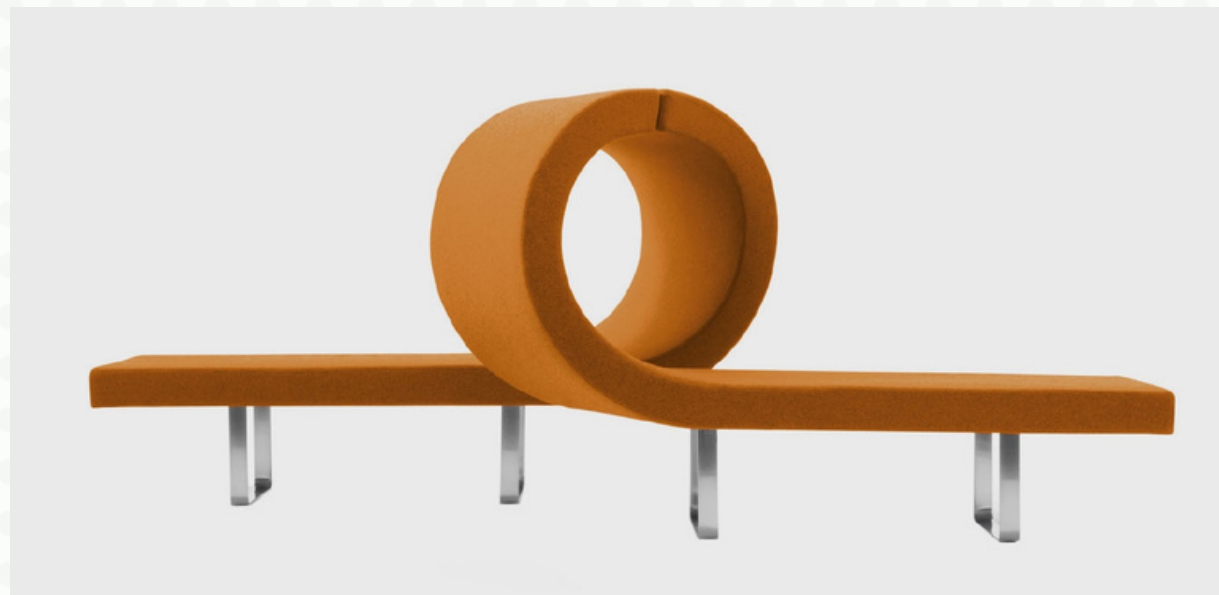




ACOUSTICAL ELEMENTS



FURNITURE-YOUTH



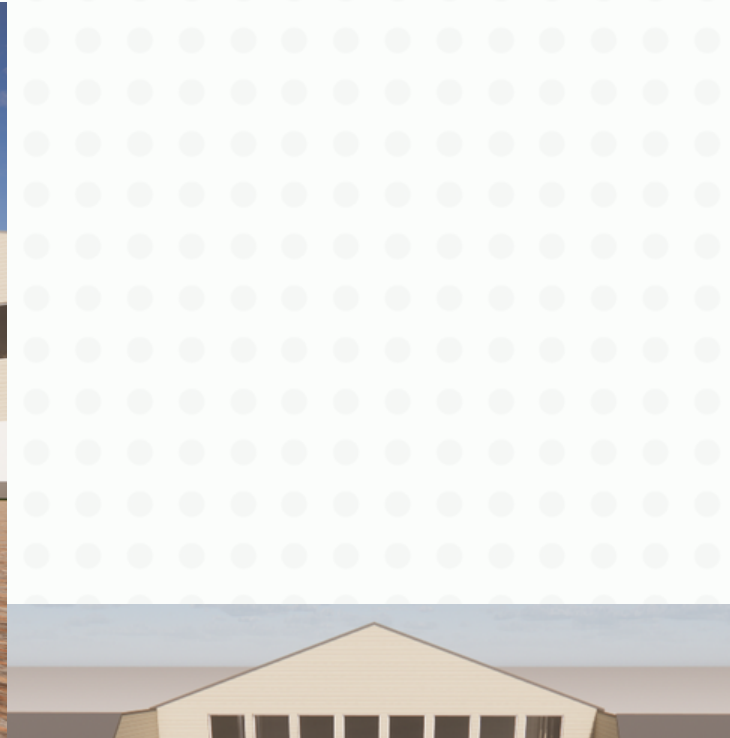
FURNITURE-ADULT

arcadia



 Stantec

SCHEMATIC PATIO DESIGN



LANDSCAPE DESIGN GUIDELINES



INTERACTIVE PLAY STRUCTURES



NON-VERBAL VISUAL CUE



SPACE FOR EMOTIONAL SUPPORT AND RESET + ACCESSIBILITY



INDOOR TO OUTDOOR TRANSITION



VARIOUS LANDFORMS + FENCE UP FOR SAFETY



WATER FEATURE + MIXTURE USE OF MATERIAL



PLANT PALETTE

VISUAL PLANTING

1. **Signet Marigold** - *Tagetes tenuifolia*
2. **Zinnia** - *Zinnia spp.*
3. **Calendula** - *Calendula officinalis*
4. **Canna Lily** - *Canna generalis*
5. **Snapdragons** - *Antirrhinum multiflorum*



TACTILE PLANTING

1. **Chenille Plant** - *Acalypha hispida*
2. **Bunny Tail Ornamental Grass** - *Lagurus ovatus*
3. **Celosia** - *Celosia spp*
4. **Lamb's Ear** - *Stachys byzantina*



OLFACTORY PLANTING

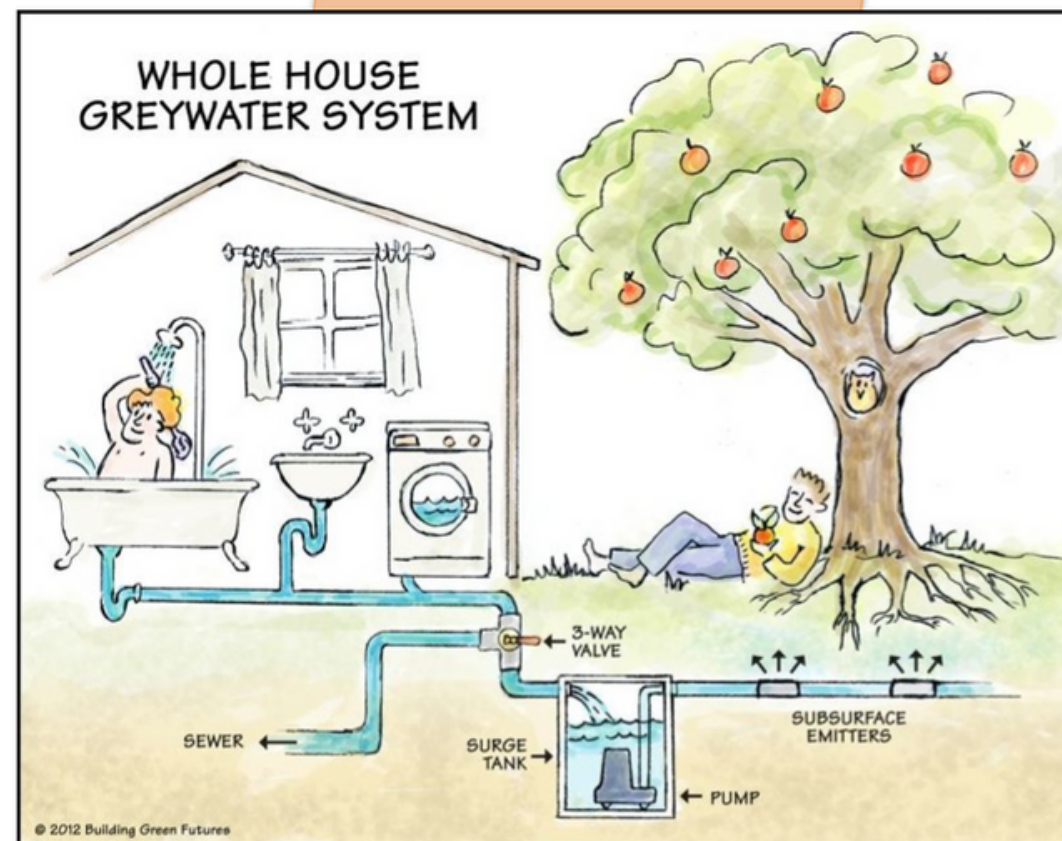
1. **Pineapple Sage** - *Salvia elegans*
2. **Curry Plant** - *Helichrysum italicum*
3. **Chocolate Cosmos** - *Cosmos atrosanguineus*
4. **Basil** - *Ocimum basilicum*
5. **Scented Geraniums** - *Pelargonium spp.*



ENGINEERING DESIGN GOALS

SUSTAINABILITY

Increase water efficiency with gray and rainwater collection for irrigation and plumbing use



HEALTHY BUILDING

Provide thermal comfort and ventilation to all indoor spaces that meets ASHRAE Standard 55 and 62.1



- ASHRAE 55 - Thermal Environmental Conditions for Human Occupancy
- ASHRAE 62.1 - Ventilation for Acceptable Indoor Air Quality

MECHANICAL EQUIPMENT



rustic exposed ductwork in events hall



4-way square diffuser



round ceiling diffuser