



**ARKANSAS STATE**  
UNIVERSITY



# CAMPUS BEAUTIFICATION PLAN

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# INTRODUCTION

## SETTING INTENTIONAL GOALS FOR CAMPUS BEAUTIFICATION

# INTRODUCTION

## THE PURPOSE OF THIS MASTERPLAN



- + **IMPROVE CAMPUS AESTHETICS FOR RECRUITMENT**
  - INCREASE ORNAMENTAL PLANTING AREAS IN THE HEART OF CAMPUS
  - FOCUS MAINTENANCE ON THE CAMPUS CORE
  - IMPROVE ANNUAL PLANTING STRATEGY IN HIGH IMPACT PLANTING AREAS ON CAMPUS
  - CREATE MANAGEMENT PLAN FOR EXISTING AND PROPOSED LANDSCAPING



- + **AQUIRE ARBORETUM STATUS**
  - COMPILE EXISTING TREE INVENTORY TO INFORM CAMPUS TREE MANAGMENT AND CARE
  - BUILD CAMPUS CHARACTER AND STUDENT ENGAGEMENT THROUGH ARBORETUM SIGNAGE AND EVENTS



- + **CAMPUS MASTERPLANNING**
  - IMPROVE LANDSCAPE AESTHETIC CONSISTENCY ACROSS CAMPUS
  - PROVIDE A KIT OF PARTS TO AID IN THE FUTURE DEVELOPMENT OF THE ASTATE CAMPUS

# ANALYSIS

**COMPILED OBSERVATIONS OF EXISTING CONDITIONS  
TO INFORM NEXT STEPS**

# ANALYSIS

## EXISTING CONDITIONS ASSESSMENT - KEY ISSUES



1. LARGE ASPHALT PARKING LOTS WITH LITTLE SHADE



2. SOD DYING BACK UNDERNEATH MATURE TREES IN THE CAMPUS CORE



3. LACK OF SUCCESSFUL FOUNDATION PLANTING IN THE CAMPUS CORE



4. LIMITED ANNUAL COLOR AT HIGH-IMPACT AREAS LEAVE THE CAMPUS LOOKING BROWN IN WINTER



5. UNSIGHTLY STORMWATER SYSTEMS ON CAMPUS



6. WIDESPREAD DISEASE AND MAINTENANCE ISSUES

# ANALYSIS

## HIGH IMPACT PLANTING AREAS



### LEGEND

-  EXISTING ANNUAL PLANTING BEDS
-  PREVIOUSLY IDENTIFIED LOCATIONS FOR FUTURE SIGNAGE/ANNUAL PLANTING

# ANALYSIS

## EXISTING HIGH IMPACT PLANTING AREAS



1 MARION BERRY CAMPUS ENTRANCE



2 AGGIE RD CAMPUS ENTRANCE



3 HOWL CAMPUS MONUMENT & ADMIN



4 RENG STUDENT UNION



5 WELCOME CENTER



6 N CARAWAY RD CAMPUS ENTRANCE



7 AGGIE / RED WOLF BLVD CAMPUS ENTRANCE



8 BOOKOUT CIRCLE



# ANALYSIS

## PROPOSED HIGH IMPACT AREAS - EXISTING CONDITIONS



1 AGGIE RD EAST ENTRANCE



2 CAMPUS ARCH



3 UNIVERSITY LOOP ENTRANCE



4 RED WOLF BLVD CORNER

### GOALS FOR HIGH IMPACT PLANTING AREAS ON CAMPUS:

- + CREATE A DISTICTIVE CAMPUS AESTHETIC THAT IS LEGIBLE TO PEOPLE DRIVING PAST
- + EMPHASIZE AND BEAUTIFY KEY ENTRY POINTS TO CAMPUS
- + PROVIDE YEAR-ROUND INTEREST AND COLORFUL DISPLAYS THAT CORRESPOND TO CAMPUS EVENTS
- + CREATE PHOTO OPPORTUNITIES IN THE CAMPUS CORE FOR STUDENTS AND VISITORS
- + HIGHLIGHT EXISTING SIGNAGE



# ANALYSIS

## HIGH IMPACT PLANTING AREAS - EXISTING PLANT PALETTE

### TREES



YAUPON HOLLY



FOSTER HOLLY



NELLIE R. STEVENS  
HOLLY



STAR MAGNOLIA



CRAPE MYRTLE

### SHRUBS / GROUNDCOVERS



BURNING BUSH



DWARF YAUPON HOLLY



NANDINA



KNOCKOUT ROSE



SWEETSPIRE



INDIAN HAWTHORN



WINTERCREEPER



MONDO GRASS + LIRIOPE



FOTHERGILLA



TULIPS



IMPATIENS

## CAMPUS CORE FOUNDATION PLANTINGS



1 ADMIN



2 NYIT



5 LAB SCIENCES



6 LIBRARY

### + EXISTING CONDITION

- THE EXISTING FOUNDATION PLANTING ON CAMPUS IS HIGHLY INCONSISTANT AND PATCHY
- MANY PLANTING BEDS ARE FULLY BARE OR CONTAIN SPARSE VEGETATION

### + GOALS

- CREATE A COHESIVE CAMPUS AESTHETIC THAT DEFINES THE CAMPUS CORE
- STRATEGICALLY LOCATE PLANTING AREAS TO ACHIEVE THE HIGHEST IMPACT
- BUILD A SIMPLE AND PRACTICAL PLANT PALETTE THAT IS EASY TO REPLICATE AND APPLY TO NEW SITES AS NEEDED

# ANALYSIS

## TREE INVENTORY - SPECIES COMPOSITION

ACROSS CAMPUS, 3,068 INDIVIDUAL TREES FROM 85 UNIQUE SPECIES WERE SURVEYED.



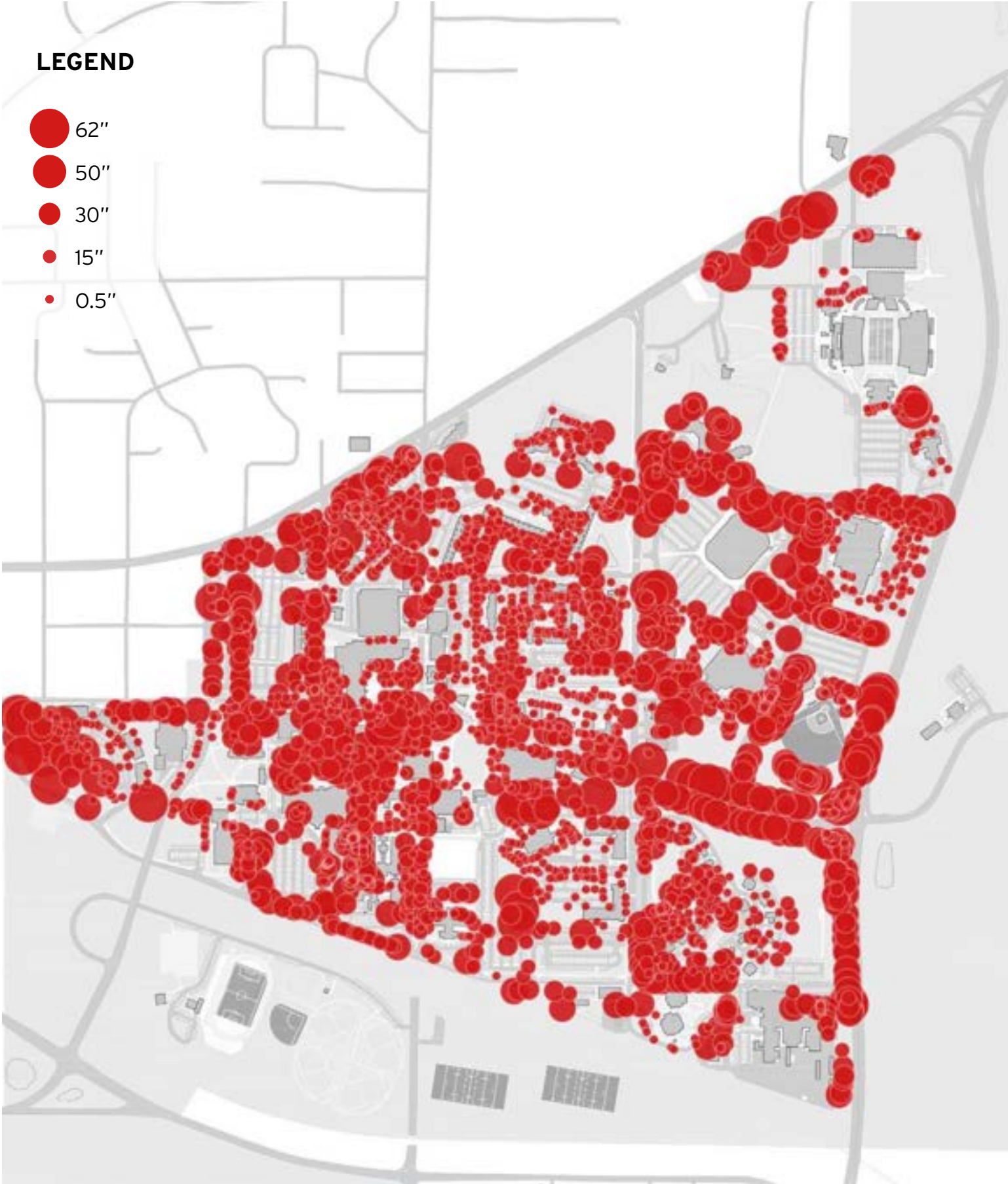
## TOP 10 MOST ABUNDANT SPECIES

TOTALING 1,737 INDIVIDUALS BETWEEN THEM, THESE SPECIES COMPOSE OVER HALF OF ASTATE'S CAMPUS TREES.

|  |                                |                                                                                                                                                     |  |                                                                                                                                              |
|--|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------|
|  |                                | <b>Crape Myrtle • 504</b><br><i>Lagerstroemia indica</i><br>deciduous shrub or tree<br>15 - 25' tall<br>pink flowers in summer<br><b>Non-native</b> |  | <b>Loblolly Pine • 264</b><br><i>Pinus taeda</i><br>evergreen conifer<br>60 - 150' tall<br>grown for lumber<br>Native                        |
|  |                                | <b>Willow Oak • 209</b><br><i>Quercus phellos</i><br>deciduous tree<br>40 - 75' tall<br>highly adaptable<br>Native                                  |  | <b>Lacebark Elm • 205</b><br><i>Ulmus parvifolia</i><br>deciduous tree<br>40 - 50' tall<br>resistant to Dutch elm disease<br><b>Invasive</b> |
|  |                                | <b>Red Maple • 149</b><br><i>Acer rubrum</i><br>deciduous tree<br>up to 100' tall<br>red fall foliage<br>Native                                     |  | <b>Japanese Zelkova • 132</b><br><i>Zelkova serrata</i><br>deciduous tree<br>50 - 80' tall<br>honeycomb patterned bark<br><b>Non-native</b>  |
|  |                                | <b>Bald Cypress • 72</b><br><i>Taxodium distichum</i><br>deciduous conifer<br>50 - 70' tall<br>thrives in standing water<br>Native                  |  | <b>Southern Red Oak • 71</b><br><i>Quercus falcata</i><br>deciduous tree<br>80 - 150' tall<br>beautiful foliage<br>Native                    |
|  |                                | <b>Southern Magnolia • 67</b><br><i>Magnolia grandiflora</i><br>evergreen tree<br>up to 90' tall<br>flowers up to 1' wide<br>Native                 |  | <b>Thornless Honey Locust • 64</b><br><i>Gleditsia triacanthos</i><br>deciduous tree<br>25 - 40' tall<br>provides dappled shade<br>Native    |
|  | other: 75 species, 1,331 trees |                                                                                                                                                     |  |                                                                                                                                              |
|  |                                |                                                                                                                                                     |  |                                                                                                                                              |
|  |                                |                                                                                                                                                     |  |                                                                                                                                              |
|  |                                |                                                                                                                                                     |  |                                                                                                                                              |
|  |                                |                                                                                                                                                     |  |                                                                                                                                              |

# ANALYSIS

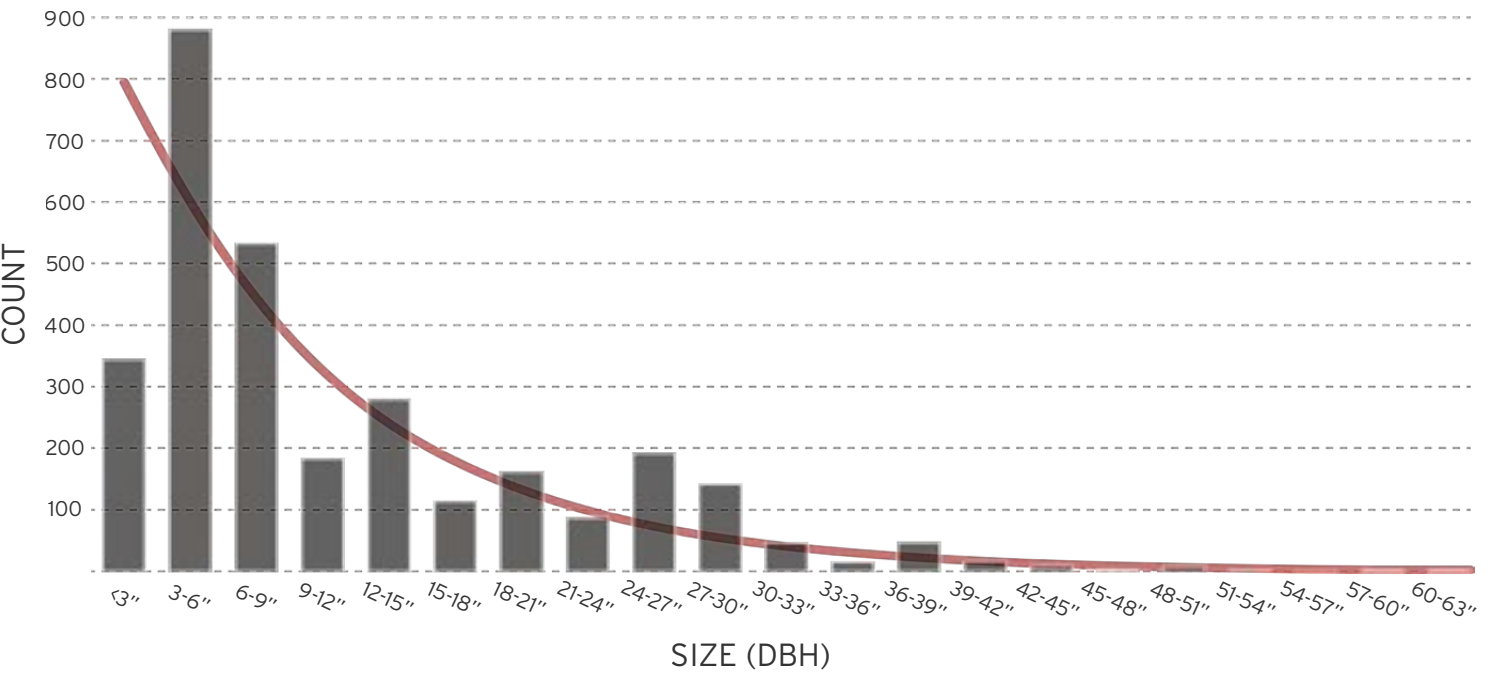
## TREE INVENTORY - SIZE



## SIZE DISTRIBUTION ACROSS POPULATION

MAINTAINING AN IDEAL DISTRIBUTION OF TREE SIZES IS CRUCIAL FOR THE LONG-TERM SUSTAINABILITY OF URBAN FORESTS. A BALANCED POPULATION ENSURES A ROBUST STOCK OF YOUNGER TREES TO REPLACE MATURE TREES AS THEY DIE OFF. YOUNGER COHORTS ALSO ADD GENETIC AND SPECIES DIVERSITY, INCREASING RESILIENCE.

BELOW, AN IDEALIZED SIZE-CLASS CURVE IS COMPARED TO THE CURRENT DISTRIBUTION OF ASTATE'S TREES. THE RESULTS SHOW THAT CERTAIN CLASSES, PARTICULARLY YOUNG TREES (3-9" DBH) AND MATURE TREES (24-30" DBH), ARE OVERREPRESENTED, WHILE THE SMALLEST SAPLINGS (<3") AND SEVERAL INTERMEDIATE CLASSES ARE UNDERREPRESENTED. STRATEGIC PLANTING OF NEW SAPLINGS CAN HELP REBALANCE THE POPULATION.



## OUTREACH + CONTINUED STUDY

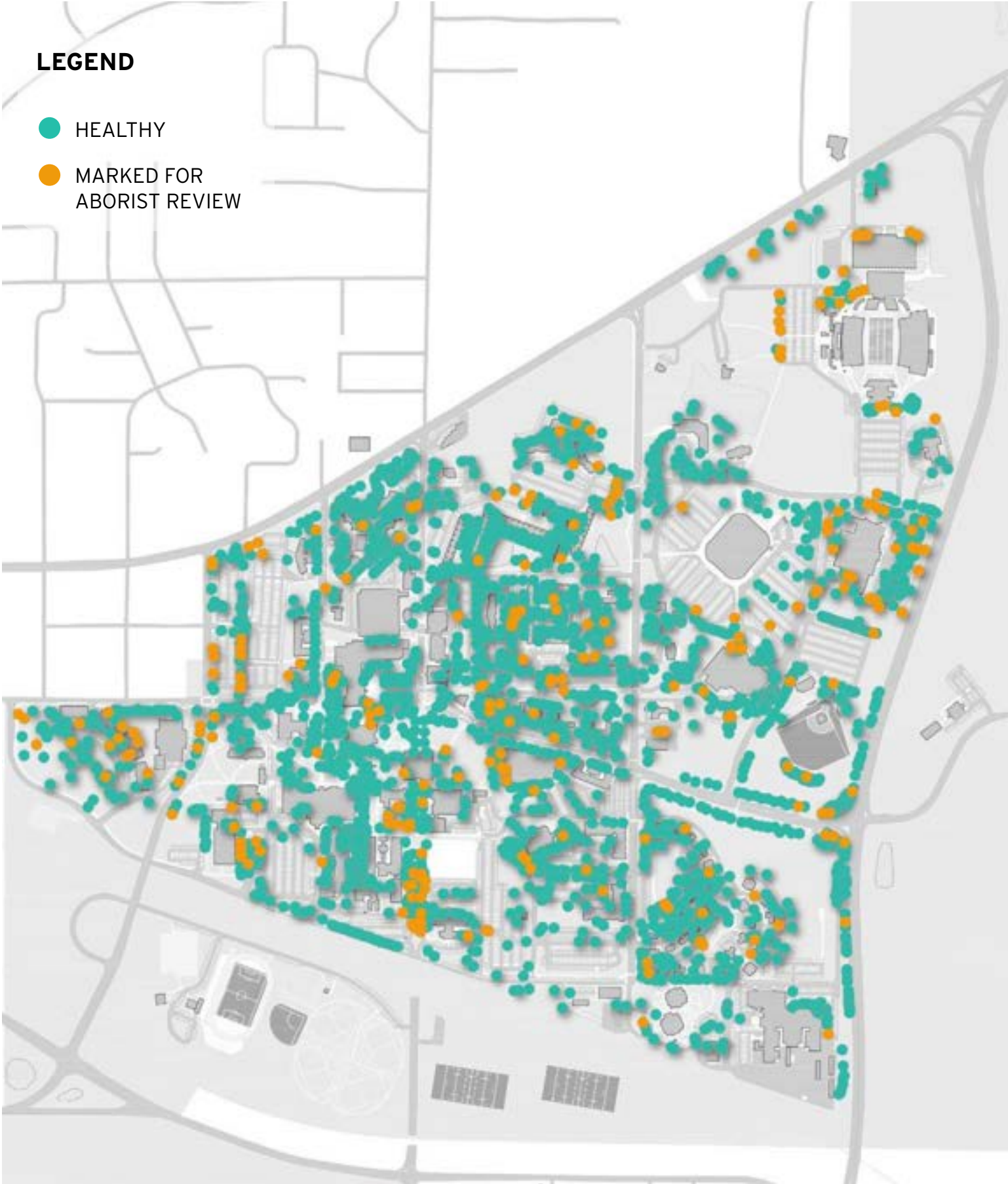
CREATED FROM OUR SURVEY RESULTS, THIS WEB MAP ENGAGES THE UNIVERSITY COMMUNITY TO DIRECTLY LEARN ABOUT AND FROM THE CAMPUS FOREST. IN ADDITION, THE DATA COLLECTED CAN BE THE FOUNDATION FOR FUTURE RESEARCH, MONITORING, AND CITIZEN SCIENCE.



scan the QR code to further explore the campus tree inventory

# ANALYSIS

## TREE INVENTORY - TREE HEALTH



## COMMON ISSUES + SOLUTIONS

A TOTAL OF 277 TREES, OR APPROXIMATELY 9% OF THE CAMPUS POPULATION, WERE FOUND TO HAVE HEALTH ISSUES. THESE INCLUDE TREES IN DECLINE, STRUCTURALLY COMPROMISED, OR ALREADY DEAD. SUCH TREES REPRESENT A SAFETY LIABILITY AND THEY INCREASE ONGOING MAINTENANCE COSTS.

FROM A PLANNING PERSPECTIVE, HOWEVER, THEIR REMOVAL ALSO CREATES OPPORTUNITY. REPLACING THESE TREES OFFERS A CHANCE TO INTRODUCE GREATER SPECIES DIVERSITY, ENHANCE SEASONAL INTEREST, AND BETTER ALIGN THE CAMPUS CANOPY WITH LONG-TERM SUSTAINABILITY GOALS.



### + FUNGAL INFECTION AND DISEASE

SOME TREES SHOWED SIGNS OF INFECTION, INCLUDING **LEAF SPOT, CANKERS, AND CANOPY DIEBACK**. ON A CAMPUS, FREQUENT HUMAN ACTIVITY AND MAINTENANCE (E.G., MOWING, CONSTRUCTION, ROOT COMPACTION) CAN CAUSE WOUNDS THAT ALLOW PATHOGENS TO ENTER. MONITORING AND PREVENTATIVE CARE CAN LIMIT FUTURE LOSSES. COMMON DISEASES TO WATCH OUT FOR INCLUDE **OAK WILT, ANTHRACNOSE, AND POWDERY MILDEW**.



### + PESTS

EMERALD ASH BORER (EAB) POSES THE GREATEST THREAT. **56 OF SURVEYED ASH TREES** SHOWED CANOPY DIEBACK CONSISTENT WITH EAB, WHICH TYPICALLY LEADS TO NEAR-TOTAL MORTALITY. OTHER PEST PRESSURES INCLUDED SCALE AND BORERS ON ORNAMENTALS. MANAGEMENT SHOULD PRIORITIZE REMOVING DECLINING ASHES, DIVERSIFYING REPLACEMENTS, AND TREATING SELECT HIGH-VALUE TREES.



### + IMPROPER MAINTENANCE

SEVERAL PROBLEMS STEM FROM POOR PRACTICES:

- **MULCH VOLCANOES**, CAUSES ROT AND GIRDLING ROOTS.
- **IMPROPER PRUNING**, LEAVING LARGE, UNHEALED CUTS.
- **POOR SPECIES SELECTION**, IGNORING "RIGHT TREE, RIGHT PLACE" PRINCIPLES.

IMPROVED TRAINING, PLANTING STANDARDS, AND ROUTINE CARE WILL REDUCE PREVENTABLE DECLINE AND EXTEND CANOPY LONGEVITY.

CAMPUS ARBORETUM ACCREDITATION

|                                                     | LEVEL I | LEVEL II | LEVEL III |
|-----------------------------------------------------|---------|----------|-----------|
| ARBORETUM PLAN                                      | ●       | ●        | ●         |
| ORGANIZATIONAL OR GOVERNANCE GROUP                  | ○       | ○        | ○         |
| LABELED TREE AND WOODY PLANT TAXA                   |         |          |           |
| 25 +                                                | ●       |          |           |
| 100 +                                               |         | ●        |           |
| 500 +                                               |         |          | ●         |
| STAFF OR VOLUNTEER SUPPORT                          |         |          |           |
| Volunteer or paid                                   | ●       |          |           |
| Paid Management                                     |         | ●        | ○         |
| Curator                                             |         |          | ○         |
| PUBLIC DIMENSION                                    |         |          |           |
| Public access and at least one event per year       | ●       | ●        | ●         |
| Enhanced public and educational programs            |         | ●        | ●         |
| Substantial educational programming                 |         |          | ●         |
| COLLECTIONS POLICY                                  |         | ○        | ○         |
| COLLABORATION WITH OTHER ARBORETA                   |         |          | ○         |
| COLLECTIONS DATA SHARING WITH NETWORKED COLLECTIONS |         |          | ○         |
| TREE SCIENCE, PLANTING, AND CONSERVATION ACTIVITIES |         |          | ○         |

● - CRITERIA SATISFIED      ● - PARTIALLY SATISFIED      ○ - NOT YET SATISFIED

PLAN OF ACTION

- + GOVERNANCE**

  - A FORMAL TREE COMMITTEE OR GOVERNING BODY SHOULD OVERSEE POLICY, BUDGETS, AND ALIGNMENT WITH CAMPUS SUSTAINABILITY GOALS.
  - **STAFFING:** ASSIGN AN ARBORETUM COORDINATOR WITHIN FACILITIES/GROUNDS, SUPPORTED BY STAFF AND FACULTY ADVISORS, TO ENSURE CONSISTENT MANAGEMENT AND RECORD-KEEPING.
- + SPECIES DIVERSITY**

  - NEW PLANTINGS SHOULD BROADEN SPECIES DIVERSITY, WITH EMPHASIS ON NATIVES AND ADAPTED ORNAMENTALS. REPLACING UNHEALTHY OR DEAD TREES IS AN OPPORTUNITY TO ADD UNDERREPRESENTED SPECIES AND BALANCE AGE CLASSES.
  - **LABELING:** INTERPRETIVE SIGNAGE MAKES THE CAMPUS ARBORETUM A PASSIVE EDUCATION AND OUTREACH TOOL
- + MAINTENANCE AND ORGANIZATION**

  - ROUTINE CARE MUST FOLLOW BEST PRACTICES FOR PRUNING, MULCHING, PEST MANAGEMENT, AND SOIL HEALTH, WITH ACTIVITIES DOCUMENTED FOR ACCREDITATION.
  - **STAFFING:** TRAIN GROUNDS CREWS IN ANSI/ISA STANDARDS AND PROVIDE OVERSIGHT BY A CERTIFIED ARBORIST OR LANDSCAPE MANAGER.
- + COLLECTIONS**

  - LEVEL II REQUIRES AT LEAST 100 DOCUMENTED SPECIES. MAINTAIN AN UPDATED INVENTORY WITH ACCURATE MAPPING, SIGNAGE, AND INTERPRETATION FOR STUDENTS AND VISITORS.
  - **STAFFING:** A COLLECTIONS MANAGER SHOULD OVERSEE THE DATABASE, LABELING, AND VERIFICATION, WORKING WITH FACULTY TO SUPPORT TEACHING AND RESEARCH.



# VISION

**A COHESIVE CAMPUS AESTHETIC THAT DRAWS PEOPLE IN AND  
CREATES A POSITIVE COMMUNITY ENVIRONMENT**

## VISION

### FOUR PRIMARY IMPACT ZONES



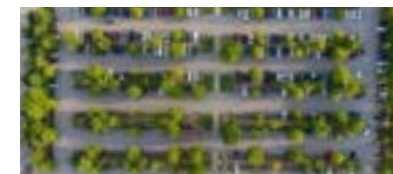
#### + HIGH IMPACT PLANTING / SIGNAGE AREAS

- INCREASE EVERGREEN AND PERENNIAL PLANTING TO SUPPLEMENT ANNUAL COLOR
- CREATE A SCHEDULE OF ANNUAL PLANTING THAT COORDINATES WITH CAMPUS EVENTS AND EXTENDS THE BLOOM SEASON



#### + CAMPUS CORE BEAUTIFICATION

- CREATE A PLANTING STRATEGY AS A KIT OF PARTS WITH PLANT PALETTES FOR FOUNDATION PLANTING
- IMPROVING LAWNS UNDERNEATH MATURE TREES WITH ORGANIZED MULCH RINGS AND PLANTING
- DEVELOP MANAGEMENT PLAN FOCUSED ON THE CAMPUS CORE ORNAMENTAL PLANTING AREAS



#### + PARKING LOT TREE PLANTING

- STANDARDIZE TREE PLANTING IN LARGE PARKING LOTS ACROSS CAMPUS TO INCREASE SHADE AND IMPROVE AESTHETICS



#### +STORMWATER DETENTION STRATEGIES

- STANDARDIZE PLANTING AND MAINTENANCE STRATEGIES AT WET AREAS AND PONDS AROUND CAMPUS

# VISION

## CAMPUS BEAUTIFICATION MASTERPLAN



### OVERALL MASTERPLAN

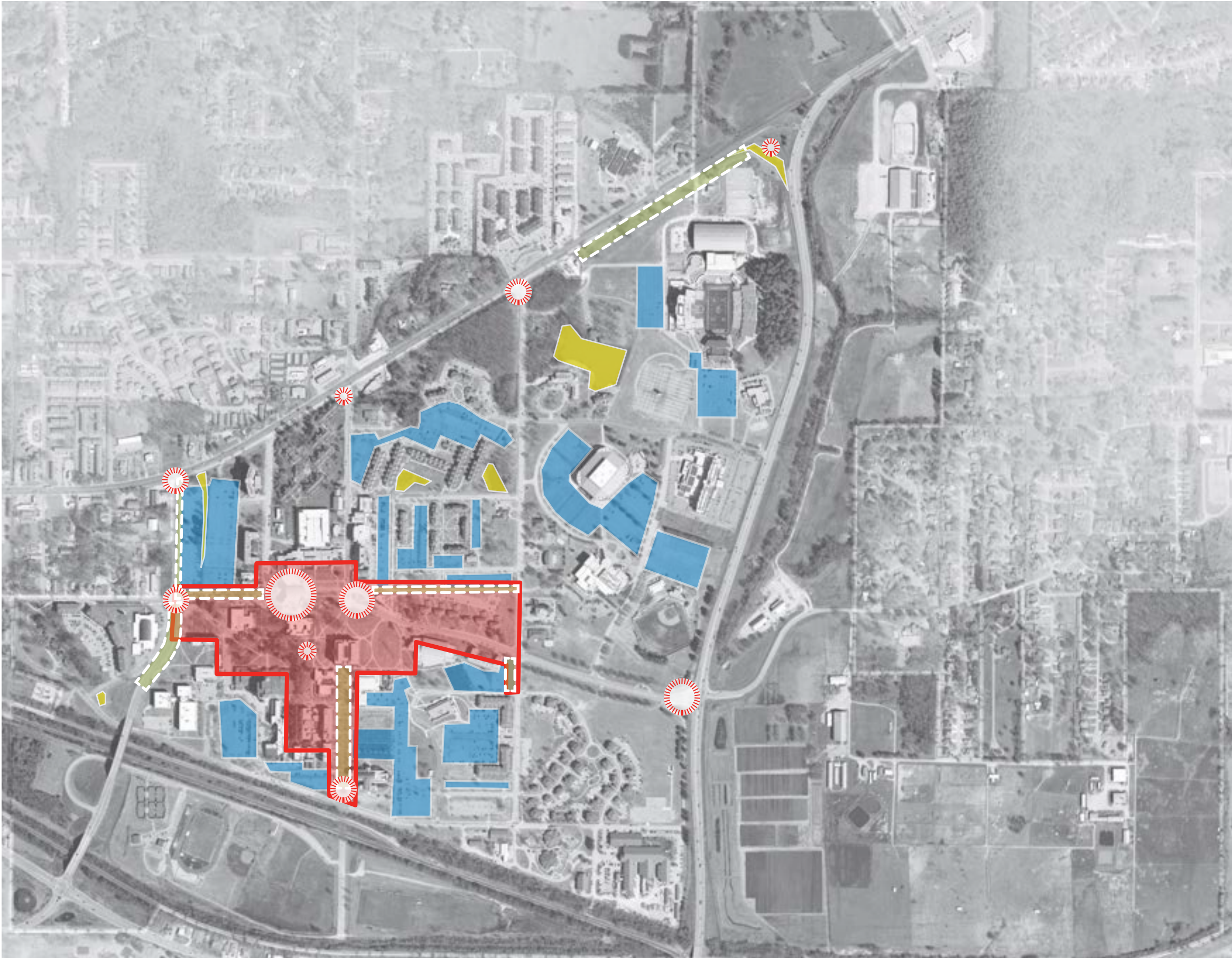
BY FOCUSING STRATEGIC IMPROVEMENTS IN KEY AREAS ON CAMPUS, THIS MASTERPLAN WILL DRASTICALLY IMPROVE THE OVERALL AESTHETICS OF ASTATE JONESBORO.

CAMPUS ENTRY POINTS AND THE PRIMARY PEDESTRIAN CORE ARE THE MAIN FOCUS OF THIS MASTERPLAN, WITH ADDITIONAL RECOMMENDATIONS PROVIDED FOR STUDENT PARKING AND STORMWATER DETENTION AREAS.

THIS PLAN BREAKS DOWN EACH IMPACT ZONE INTO INDIVIDUAL DESIGNS AND STANDARD DETAILS.

VISION

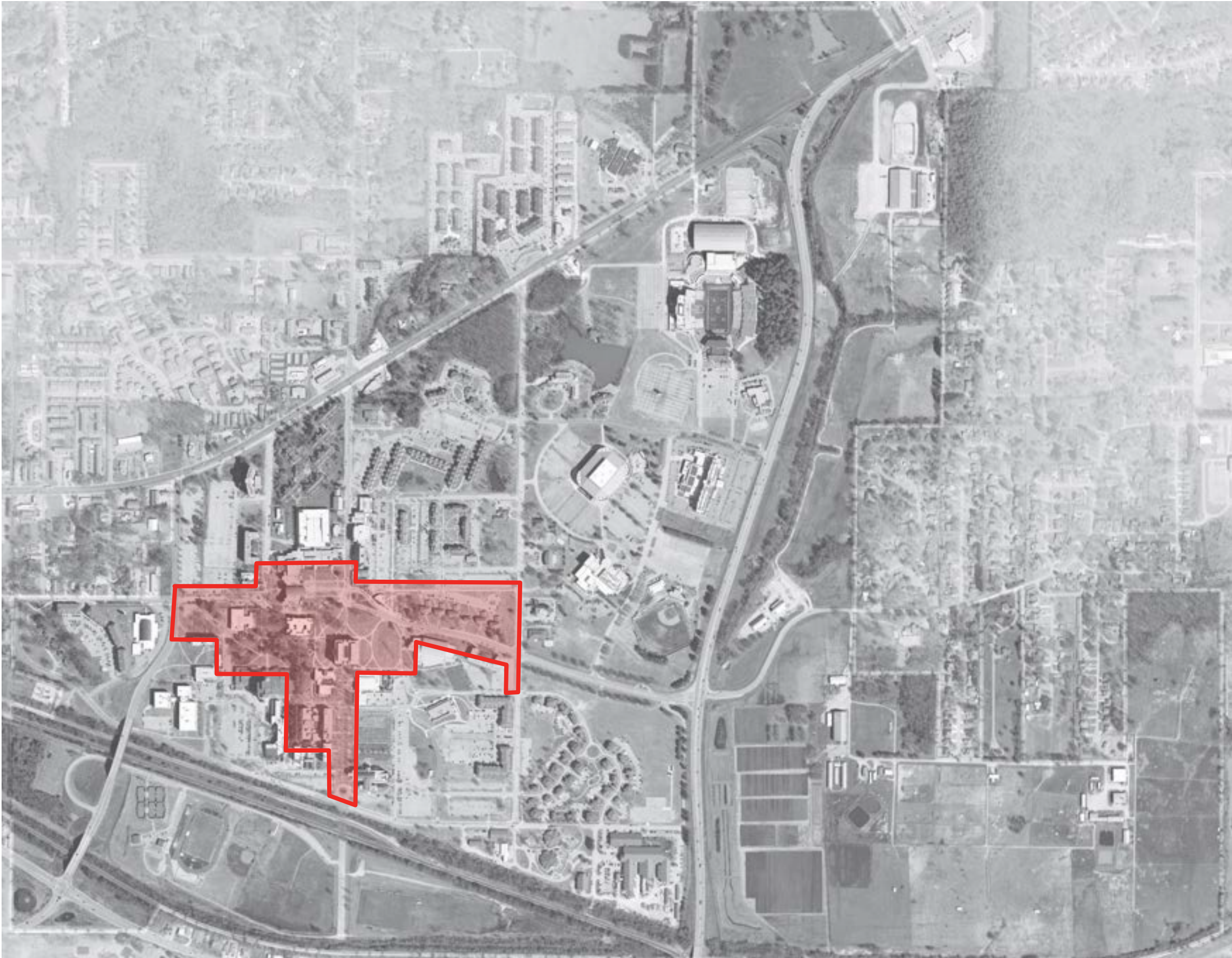
CAMPUS BEAUTIFICATION MASTERPLAN



- LEGEND
- CAMPUS CORE BEAUTIFICATION AREA
- HIGH IMPACT PLANTING / SIGNAGE AREAS
- PARKING LOT TREE PLANTING IMPROVEMENTS
- PROPOSED CAMPUS TREE PLANTING PROJECTS
- STORMWATER DETENTION IMPROVEMENT AREAS

# VISION

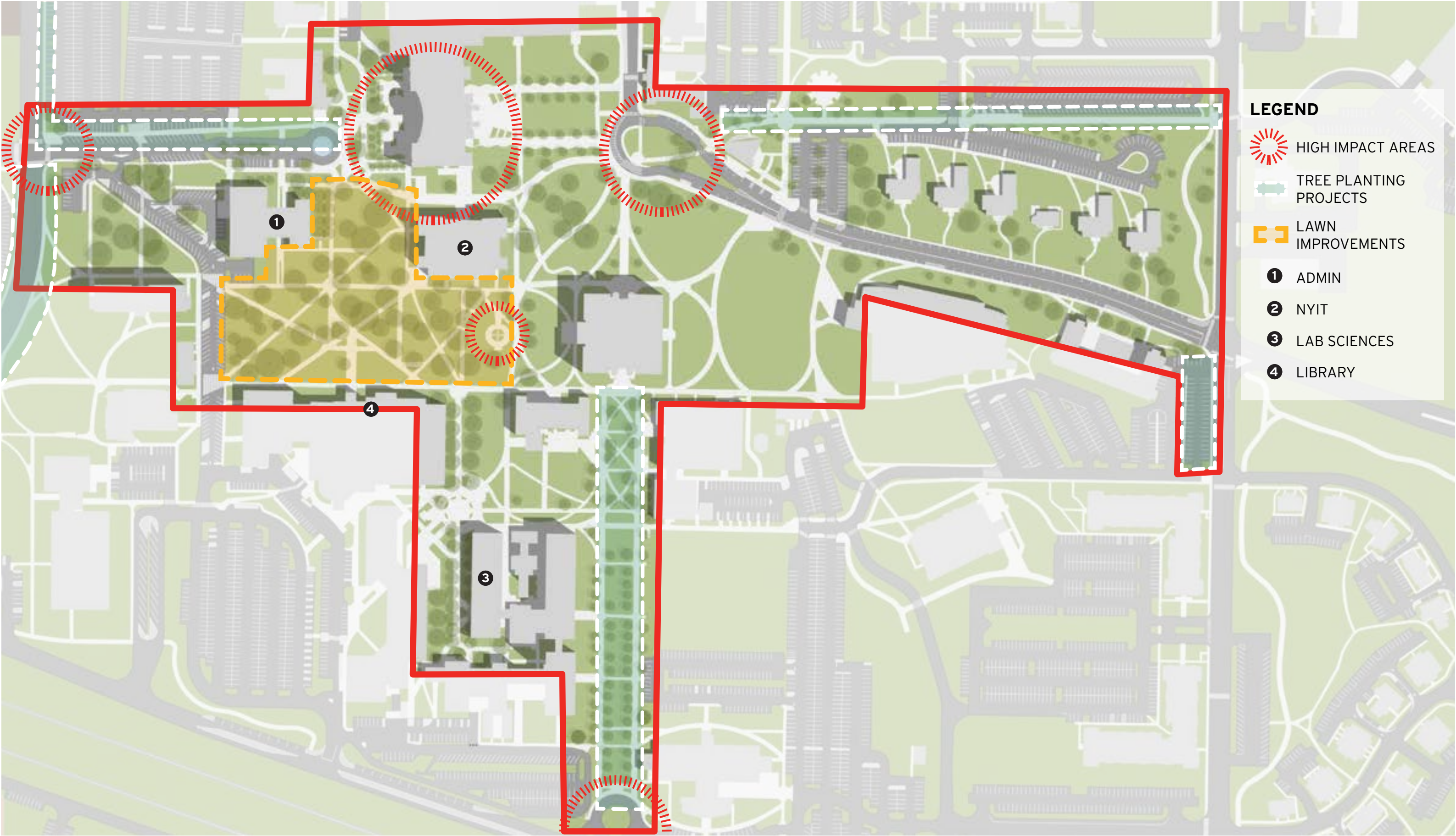
## CAMPUS CORE BEAUTIFICATION AREA



### LEGEND

 CAMPUS CORE BEAUTIFICATION AREA

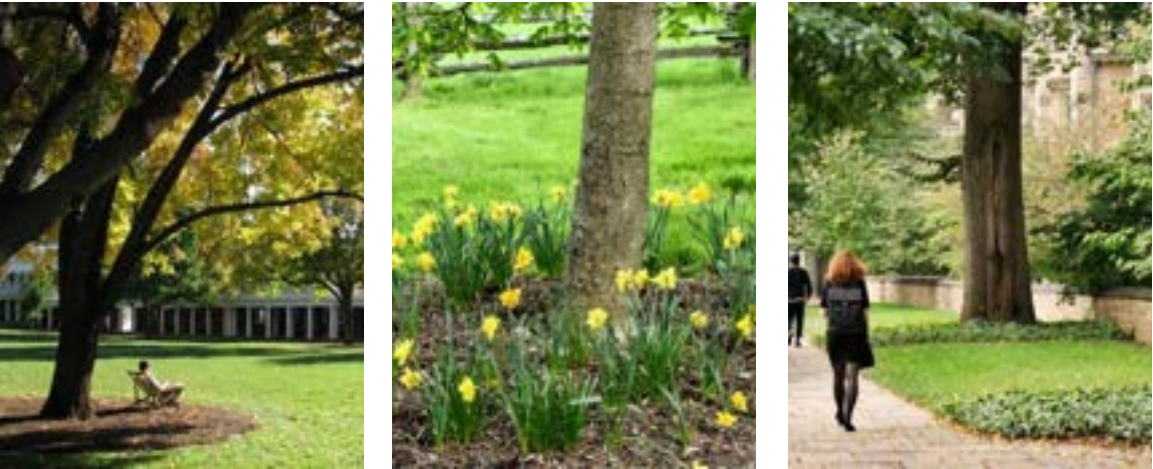
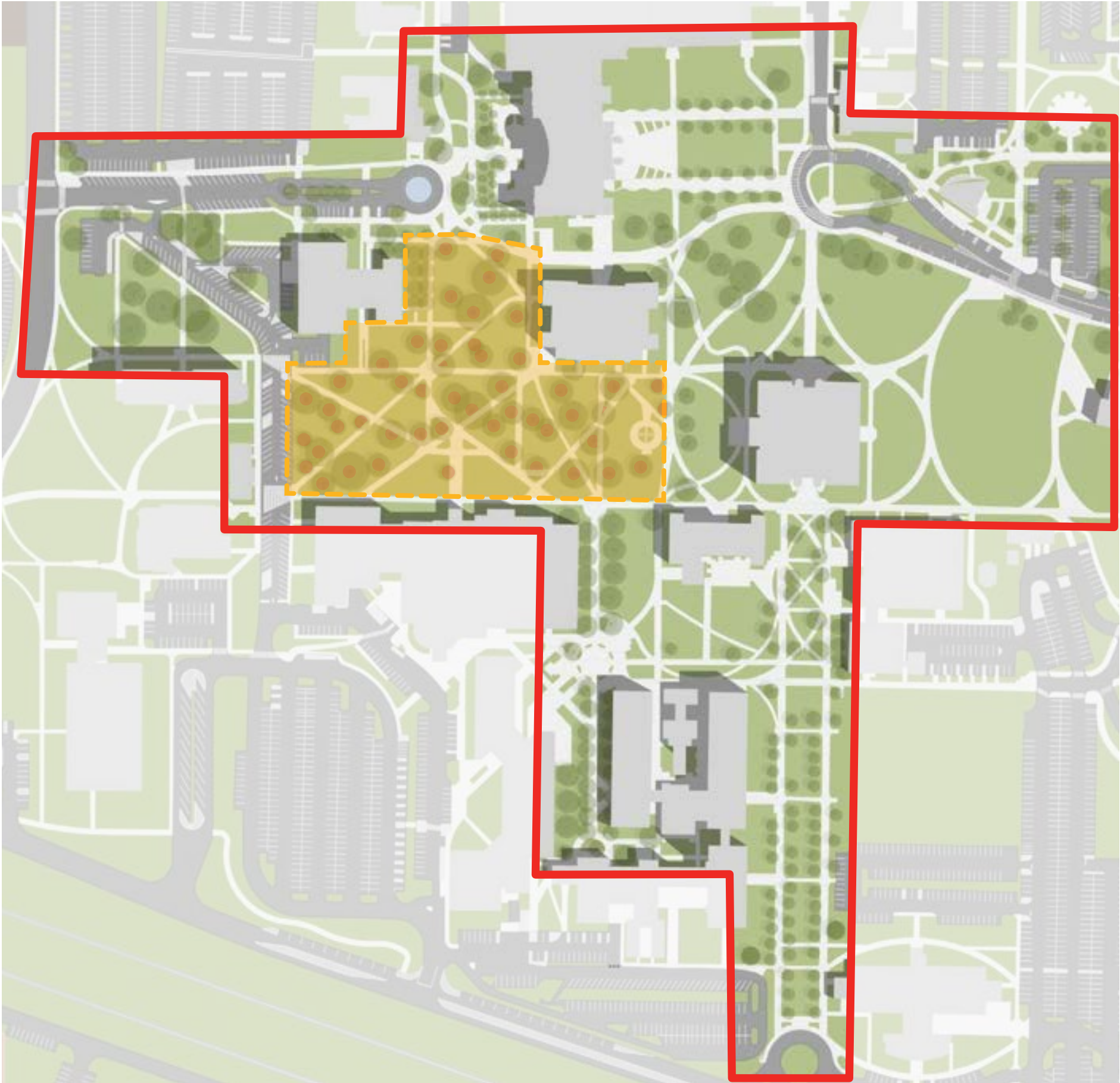
CAMPUS CORE BEAUTIFICATION PLAN



**LEGEND**

- HIGH IMPACT AREAS
- TREE PLANTING PROJECTS
- LAWN IMPROVEMENTS
- 1** ADMIN
- 2** NYIT
- 3** LAB SCIENCES
- 4** LIBRARY

CAMPUS CORE - LAWN IMPROVEMENTS



**SOD**  
AS THE TREES IN THE CAMPUS CORE HAVE MATURED, THE SHADE HAS INCREASED, KILLING MUCH OF THE BERMUDA LAWN THAT EXISTS IN THIS AREA. THE LACK OF IRRIGATION ALSO PREVENTS EXISTING ZOYSIA SOD FROM THRIVING HERE. INSTALLING A FULL IRRIGATION SYSTEM AND RE-SODDING THIS AREA WITH A SHADE-TOLERANT GRASS WILL GREATLY IMPROVE THE AESTHETICS AND FUNCTIONALITY OF THE CAMPUS CORE. MULCHING A CIRCLE AROUND EACH OF THE LARGE TREES WILL ALSO HELP WITH MAINTENANCE MOVING FORWARD.

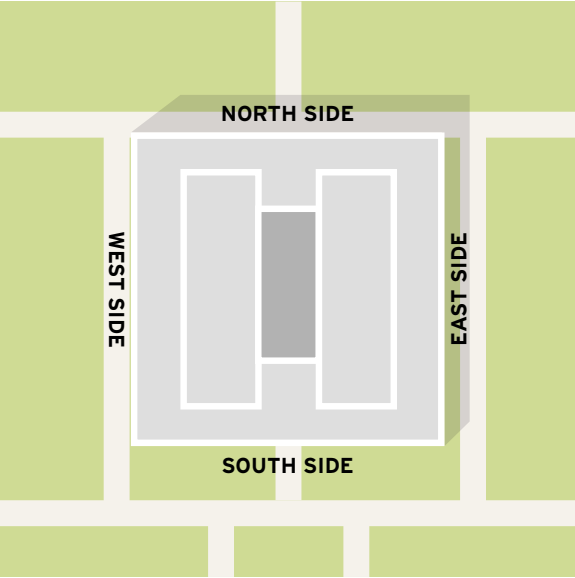
- RECOMMENDATION:
- + EL TORO ZOYSIA SOD
  - + POP-UP IRRIGATION SYSTEM
  - + 10' RADIUS MULCH RING WITH 1/4-6" STEEL EDGING
  - + LIMB UP EXISTING TREES TO ALLOW MORE LIGHT TO REACH THE SOD

**GROUNDCOVER & SEASONAL INTEREST**  
MAINTAINING EXISTING ENGLISH IVY GOUNDCOVER AND ADDING PERENNIAL BULBS FOR SEASONAL INTEREST

- EVERGREEN:
- + ENGLISH IVY (EXISTING), ASIATIC JASMINE, LIRIOPE
- SEASONAL INTEREST:
- + DAFFODILS AROUND EDGE OF TREE MULCH RINGS
  - + RED SPIDER LILY AROUND EDGES OF EVERGREEN GROUNDCOVER

VISION

CAMPUS CORE - FOUNDATION PLANTING



**KIT OF PARTS PLANT PALETTE**  
SUN AND SHADE CREATE UNIQUE MICROCLIMATES ON EACH SIDE OF CAMPUS BUILDINGS.

BY UTILIZING PLANT PALETTES TAILORED TO THE CARDINAL DIRECTIONS, FOUNDATION PLANTING CAN BE STANDARDIZED ACROSS CAMPUS TO CREATE A COHESIVE CAMPUS FEEL.

EACH PLANTING PROJECT WILL STILL REQUIRE THOUGHTFUL OBSERVATION AND ANALYSIS OF MICROCLIMATES AND SUN/ SHADE CONDITIONS, BUT THIS PALETTE OFFERS A JUMPING OFF POINT TO SIMPLIFY THE PROCESS.

PLANT PALETTE - NORTH

LIMITED SUNLIGHT IN EARLY MORNING AND LATE EVENING. VERY SHADY.



**SWEETSPIRE**  
*ITEA VIRGINICA*  
SUN: FULL SUN-PART SHADE  
WATER: MEDIUM TO WET  
'LITTLE HENRY'  
HEIGHT X SPREAD: 2' X 2.5'  
'HENRY'S GARNET'  
HEIGHT X SPREAD: 4' X 4'



**OAKLEAF HYDRANGEA**  
*HYDRANGEA QUERCIFOLIA*  
HEIGHT X SPREAD: 7' X 7'  
SUN: FULL SUN-PART SHADE  
WATER: MEDIUM



**COMPACT INKBERRY HOLLY**  
*ILEX GLABRA 'COMPACTA'*  
HEIGHT X SPREAD: 3.5' X 5'  
SUN: FULL SUN-PART SHADE  
WATER: MEDIUM TO WET



**LIRIOPE**  
*LIRIOPE MUSCARI 'MONROE'S WHITE'*  
HEIGHT X SPREAD: 1' X 1.5'  
SUN: PART SHADE-SHADE  
WATER: MEDIUM



**NORTHERN SEA OATS**  
*CHASMANTHIUM LATIFOLIUM*  
HEIGHT X SPREAD: 3' X 2'  
SUN: FULL SUN-PART SHADE  
WATER: MEDIUM TO WET



**CHRISTMAS FERN**  
*POLYSTICHUM ACROSTICHOIDES*  
HEIGHT X SPREAD: 2' X 2'  
SUN: PART SHADE-SHADE  
WATER: DRY TO MEDIUM

PLANT PALETTE - EAST

COOL MORNING SUN, AFTERNOON SHADE.



**SWEETSPIRE**  
*ITEA VIRGINICA*  
SUN: FULL SUN-PART SHADE  
WATER: MEDIUM TO WET  
'LITTLE HENRY'  
HEIGHT X SPREAD: 2' X 2.5'  
'HENRY'S GARNET'  
HEIGHT X SPREAD: 4' X 4'



**AUTUMN BONFIRE AZALEA**  
*RHODODENDRON 'ROBLEZA'*  
HEIGHT X SPREAD: 3' X 3.5'  
SUN: FULL SUN-PART SHADE  
WATER: MEDIUM



**COMPACT INKBERRY HOLLY**  
*ILEX GLABRA 'COMPACTA'*  
HEIGHT X SPREAD: 3.5' X 5'  
SUN: FULL SUN-PART SHADE  
WATER: MEDIUM TO WET



**LIRIOPE**  
*LIRIOPE MUSCARI 'MONROE'S WHITE'*  
HEIGHT X SPREAD: 1' X 1.5'  
SUN: PART SHADE-SHADE  
WATER: MEDIUM



**NORTHERN SEA OATS**  
*CHASMANTHIUM LATIFOLIUM*  
HEIGHT X SPREAD: 3' X 2'  
SUN: FULL SUN-PART SHADE  
WATER: MEDIUM TO WET

PLANT PALETTE - SOUTH

FULL SUN ALL DAY.



**SWEETSPIRE**  
*ITEA VIRGINICA*  
SUN: FULL SUN-PART SHADE  
WATER: MEDIUM TO WET  
'LITTLE HENRY'  
HEIGHT X SPREAD: 2' X 2.5'  
'HENRY'S GARNET'  
HEIGHT X SPREAD: 4' X 4'



**BLUE RUG JUNIPER**  
*JUNIPERUS HORIZONTALIS 'WILTONII'*  
HEIGHT X SPREAD: 0.5' X 6'  
SUN: FULL SUN  
WATER: MEDIUM



**RED YARROW**  
*ACHILLEA MILLEFOLIUM 'RED VELVET'*  
HEIGHT X SPREAD: 2' X 2'  
SUN: FULL SUN  
WATER: DRY TO MEDIUM



**GREY OWL JUNIPER**  
*JUNIPERUS VIRGINIANA 'GREY OWL'*  
HEIGHT X SPREAD: 3' X 5'  
SUN: FULL SUN  
WATER: MEDIUM



**LOWBUSH BLUEBERRY**  
*VACCINEUM ANGUSTIFOLIUM*  
HEIGHT X SPREAD: 2' X 2'  
SUN: PART SHADE  
WATER: MEDIUM



**FOUNTAIN GRASS**  
*PENNISETUM ALOPECUROIDES*  
HEIGHT X SPREAD: 2' X 2'  
SUN: FULL SUN-PART SHADE  
WATER: MEDIUM TO WET

PLANT PALETTE - WEST

MORNING SHADE, HOT AFTERNOON SUN.



**SWEETSPIRE**  
*ITEA VIRGINICA*  
SUN: FULL SUN-PART SHADE  
WATER: MEDIUM TO WET  
'LITTLE HENRY'  
HEIGHT X SPREAD: 2' X 2.5'  
'HENRY'S GARNET'  
HEIGHT X SPREAD: 4' X 4'



**BLUE RUG JUNIPER**  
*JUNIPERUS HORIZONTALIS 'WILTONII'*  
HEIGHT X SPREAD: 0.5' X 6'  
SUN: FULL SUN  
WATER: MEDIUM



**RED YARROW**  
*ACHILLEA MILLEFOLIUM 'RED VELVET'*  
HEIGHT X SPREAD: 2' X 2'  
SUN: FULL SUN  
WATER: DRY TO MEDIUM



**GREY OWL JUNIPER**  
*JUNIPERUS VIRGINIANA 'GREY OWL'*  
HEIGHT X SPREAD: 3' X 5'  
SUN: FULL SUN  
WATER: MEDIUM



**FOUNTAIN GRASS**  
*PENNISETUM ALOPECUROIDES*  
HEIGHT X SPREAD: 2' X 2'  
SUN: FULL SUN-PART SHADE  
WATER: MEDIUM TO WET

SCREENING SHRUBS/TREES

SCREENING OPTIONS FOR VARIOUS MICROCLIMATES



**DON'S DWARF WAX MYRTLE**  
*MORELLA CERIFERA 'DONS DWARF'*  
HEIGHT X SPREAD: 4.5' X 5'  
SUN: FULL SUN-PART SHADE  
WATER: MEDIUM



**GREENLEAF AMERICAN HOLLY**  
*ILEX OPACA 'GREENLEAF'*  
HEIGHT X SPREAD: 25' X 15'  
SUN: FULL SUN-PART SHADE  
WATER: MEDIUM



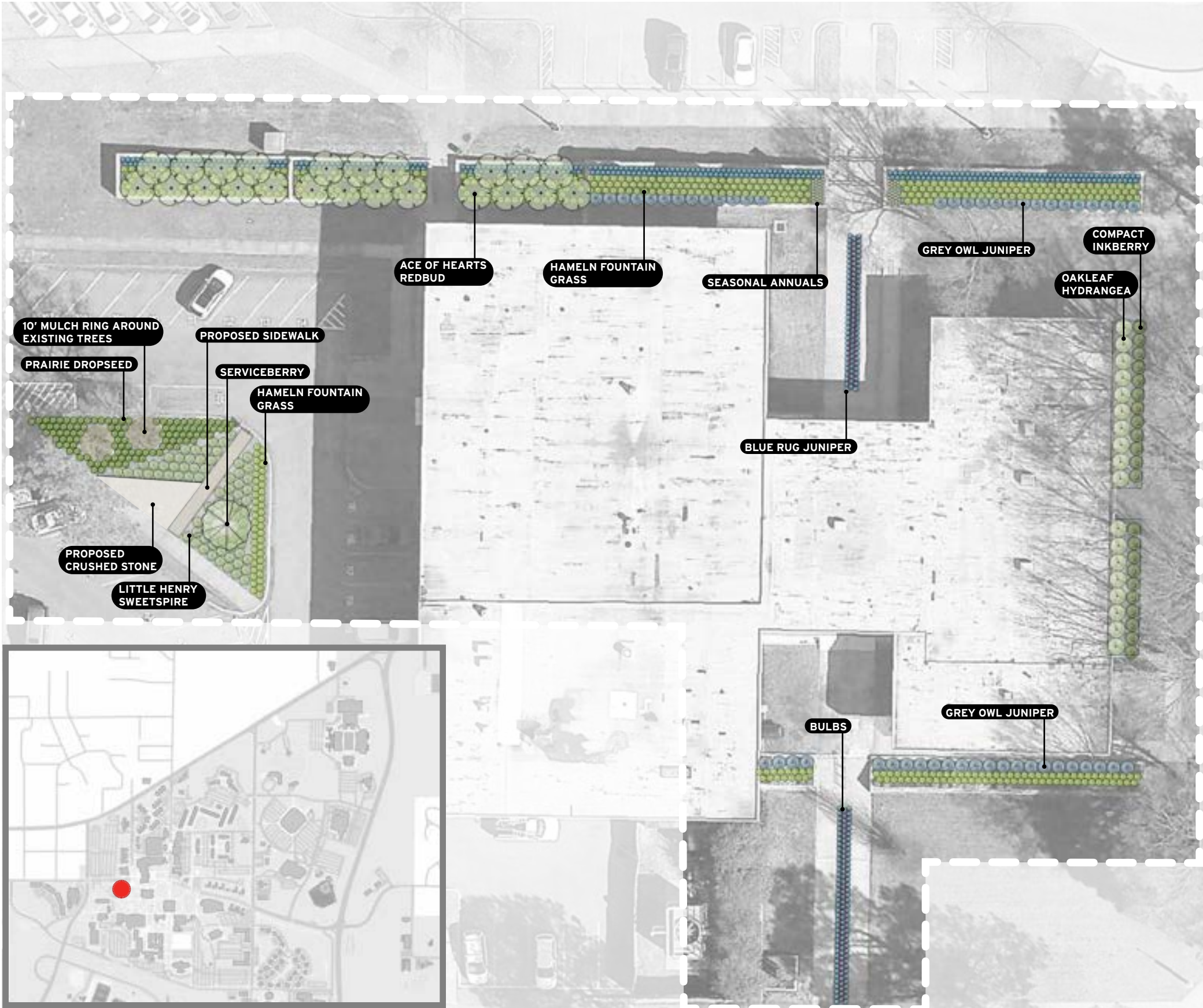
**MARY NELL HOLLY**  
*ILEX 'MARY NELL'*  
HEIGHT X SPREAD: 15' X 10'  
SUN: FULL SUN-PART SHADE  
WATER: MEDIUM



**INKBERRY HOLLY**  
*ILEX GLABRA*  
HEIGHT X SPREAD: 8' X 8'  
SUN: FULL SUN-PART SHADE  
WATER: MEDIUM TO WET

VISION

CAMPUS CORE IMPROVEMENTS - ADMIN



LEGEND



GREY OWL JUNIPER  
*JUNIPERUS X 'GREY OWL'*



OAKLEAF HYDRANGEA  
*HYDRANGEA QUERCIFOLIA*



COMPACT INKBERRY  
*ILEX GLABRA 'COMPACTA'*



LITTLE HENRY SWEETSPIRE  
*ITEA VIRGINICA 'SPRICH'*



HAMELN FOUNTAIN GRASS  
*PANNISSETUM ALOPECUROIDES 'HAMELN'*



PRAIRIE DROPSEED  
*SPOROBOLUS HETEROLEPIS*



BLUE RUG JUNIPER  
*JUNIPERUS HORIZONTALIS 'BLUE RUG'*



BULBS  
*TULIPS AND RED SPIDER LILY*



SEASONAL ANNUALS



SERVICEBERRY  
*AMELANCHIER ARBOREA*



ACE OF HEARTS REDBUD  
*CERCIS CANADENSIS 'ACE OF HEARTS'*

SCALE  
1"=16'

VISION

CAMPUS CORE IMPROVEMENTS - NYIT



VISION

CAMPUS CORE IMPROVEMENTS - LAB SCIENCES

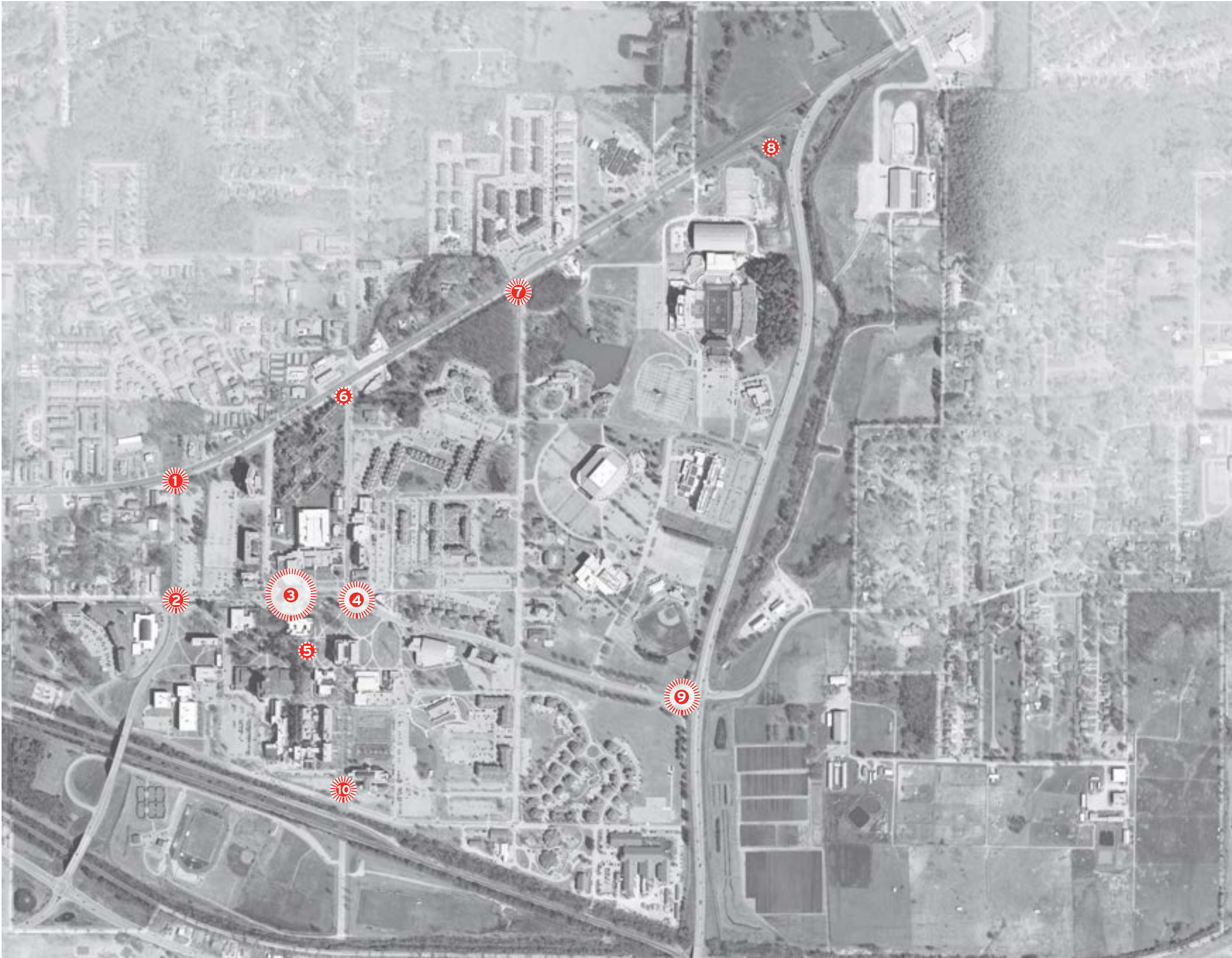


VISION

CAMPUS CORE IMPROVEMENTS - LIBRARY



HIGH IMPACT PLANTING / SIGNAGE AREAS



LEGEND

-  HIGH IMPACT PLANTING / SIGNAGE AREAS
- 1** MARION BERRY CAMPUS ENTRANCE
- 2** AGGIE RD WEST CAMPUS ENTRANCE
- 3** RENG STUDENT UNION
- 4** AGGIE RD WELCOME CENTER LOOP
- 5** A&M COLLEGE ARCH
- 6** N CARAWAY RD CAMPUS ENTRANCE
- 7** UNIVERSITY LOOP CAMPUS ENTRANCE
- 8** RED WOLF BLVD CORNER
- 9** AGGIE RD EAST CAMPUS ENTRANCE
- 10** BOOKOUT CIRCLE

# VISION

## HIGH IMPACT PLANTING AREAS - MARION BERRY CAMPUS ENTRANCE

### LEGEND



LITTLE HENRY SWEETSPIRE  
*ITEA VIRGINICA 'SPRICH'*



HAMELN FOUNTAIN GRASS  
*PANNISETUM ALOPECUROIDES 'HAMELN'*



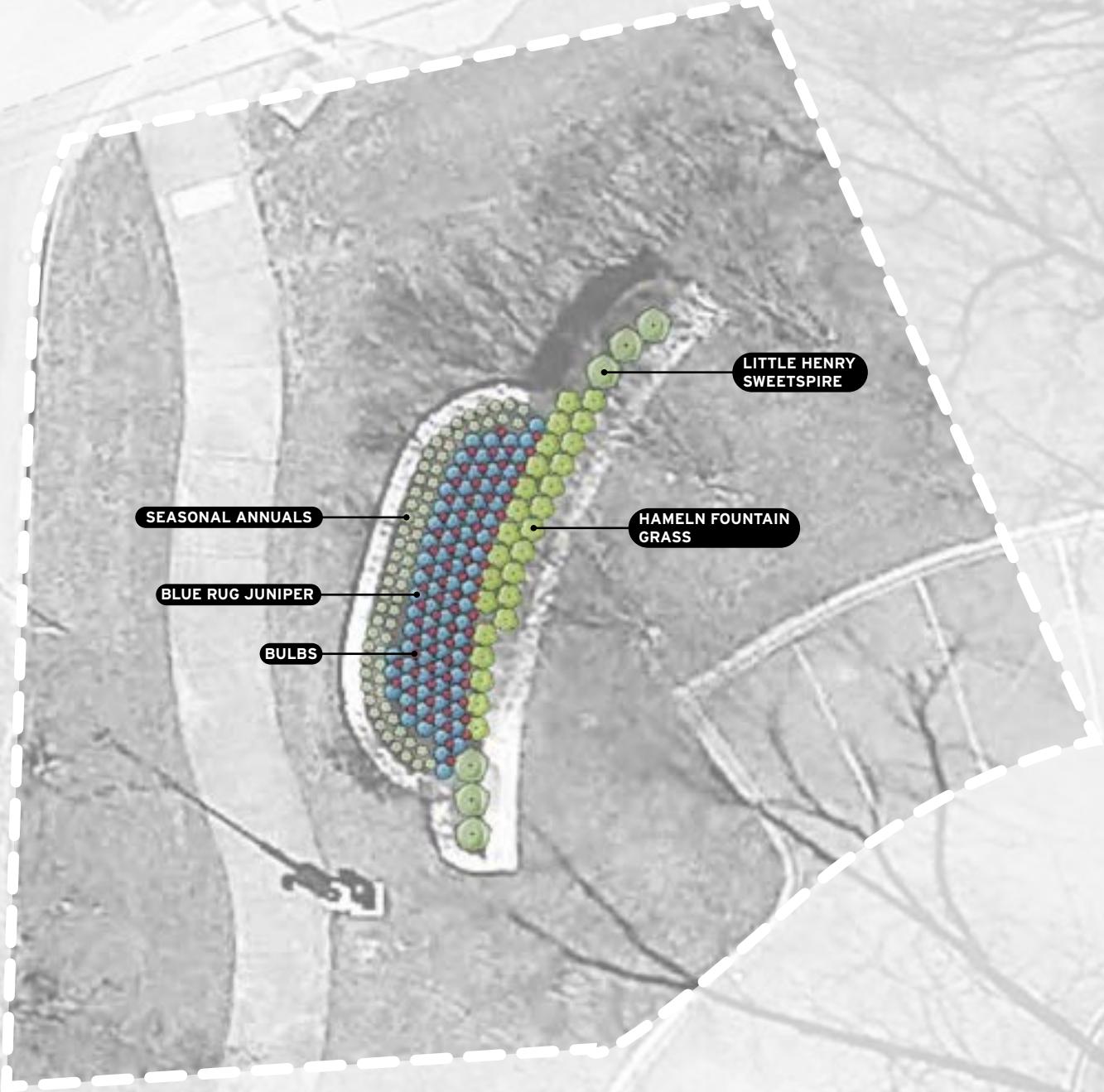
BLUE RUG JUNIPER  
*JUNIPERUS HORIZONTALIS 'BLUE RUG'*



BULBS  
TULIPS AND RED SPIDER LILY



SEASONAL ANNUALS



SCALE  
1"=8'

HIGH IMPACT PLANTING AREAS - AGGIE RD WEST CAMPUS ENTRANCE

LEGEND



LITTLE HENRY SWEETSPIRE  
*ITEA VIRGINICA 'SPRICH'*



GREY OWL JUNIPER  
*JUNIPERUS X 'GREY OWL'*



HAMELN FOUNTAIN GRASS  
*PANNISETUM ALOPECUROIDES 'HAMELN'*



BLUE RUG JUNIPER  
*JUNIPERUS HORIZONTALIS 'BLUE RUG'*



MONROE'S WHITE LIRIOPE  
*LIRIOPE MUSCARI 'MONROE'S WHITE'*



BULBS  
TULIPS AND RED SPIDER LILY



SEASONAL ANNUALS

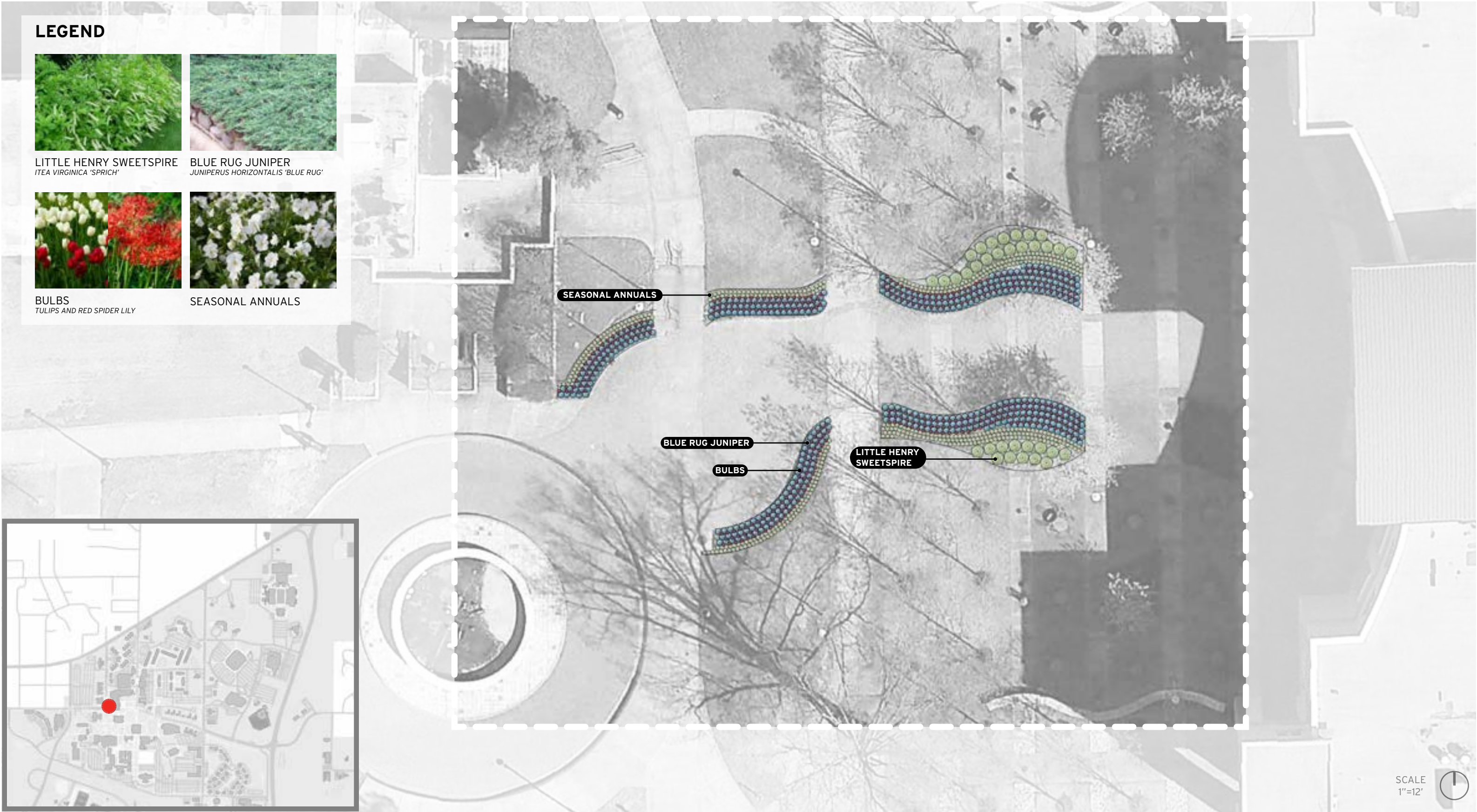


BLACKGUM  
*NYSSA SYLVATICA*



# VISION

## HIGH IMPACT PLANTING AREAS - RENG STUDENT UNION WEST



# VISION

## HIGH IMPACT PLANTING AREAS - HOWL SCULPTURE

### LEGEND



LITTLE HENRY SWEETPIRE  
*ITEA VIRGINICA 'SPRICH'*



COMPACT INKBERRY  
*ILEX GLABRA 'COMPACTA'*



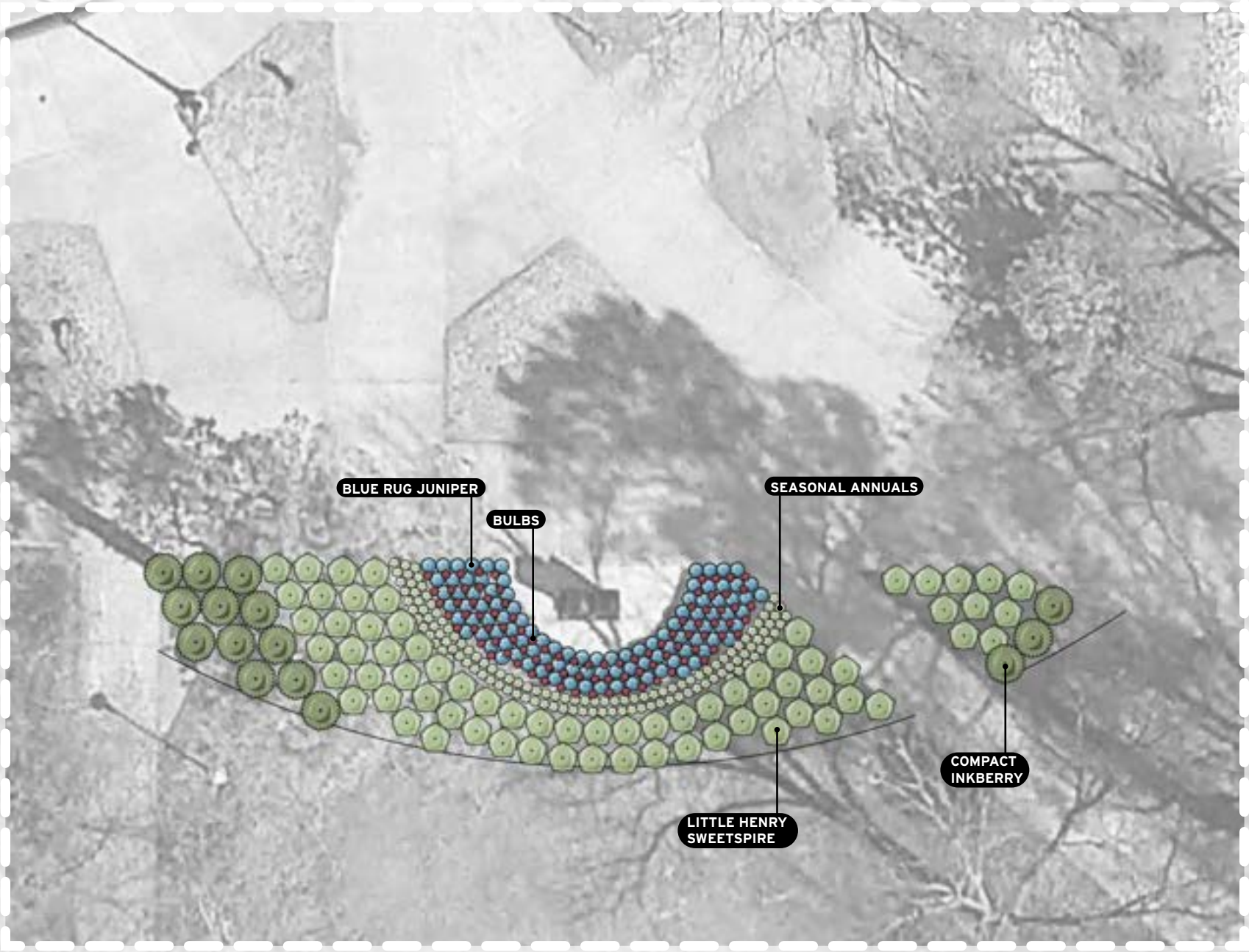
BLUE RUG JUNIPER  
*JUNIPERUS HORIZONTALIS 'BLUE RUG'*



BULBS  
TULIPS AND RED SPIDER LILY



SEASONAL ANNUALS



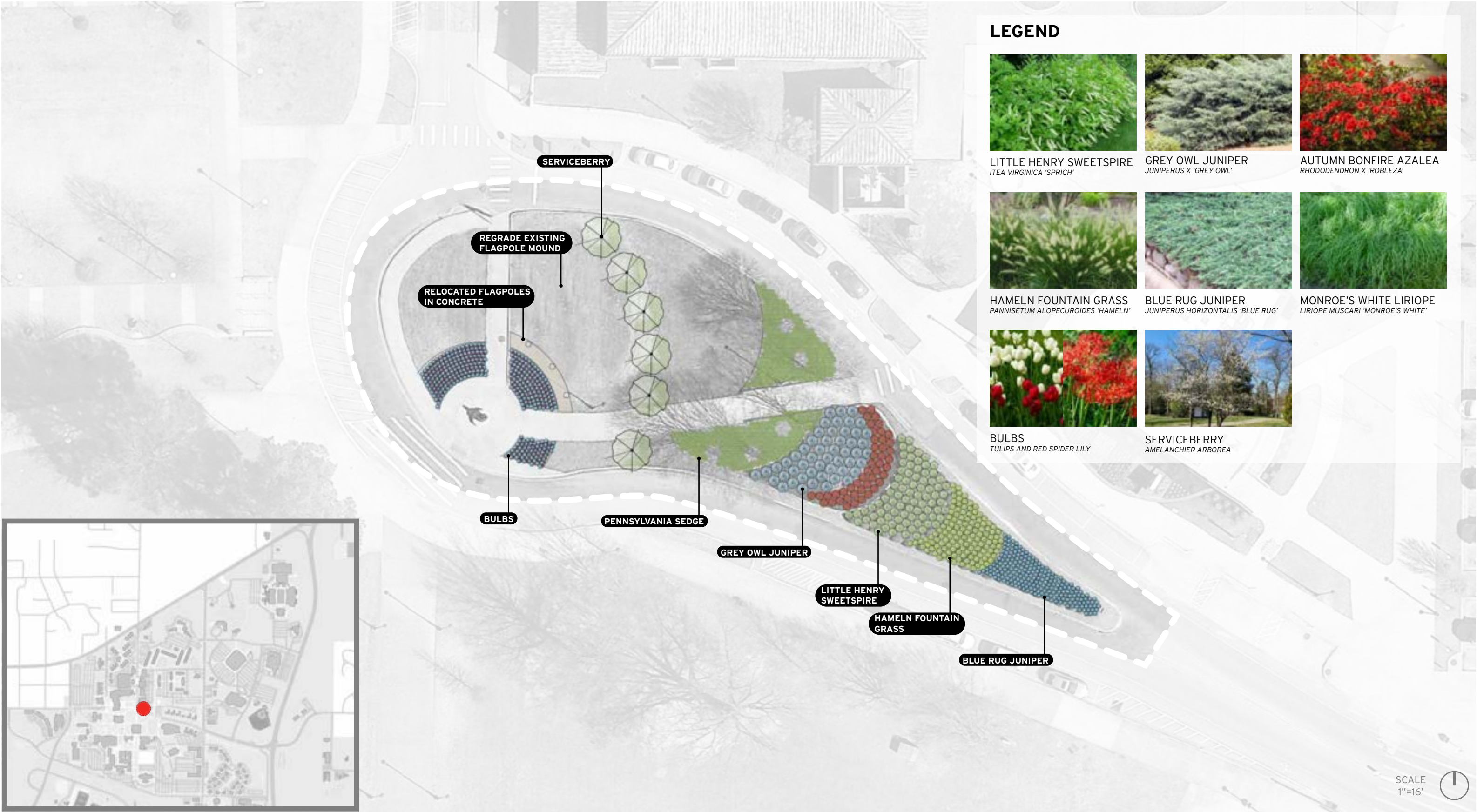
SCALE  
1"=8'

VISION

HIGH IMPACT PLANTING AREAS - RENG STUDENT UNION EAST



HIGH IMPACT PLANTING AREAS - AGGIE RD WELCOME CENTER LOOP



VISION

HIGH IMPACT PLANTING AREAS - A&M COLLEGE ARCH

LEGEND



LITTLE HENRY SWEETSPIRE  
*ITEA VIRGINICA 'SPRICH'*



GREY OWL JUNIPER  
*JUNIPERUS X 'GREY OWL'*



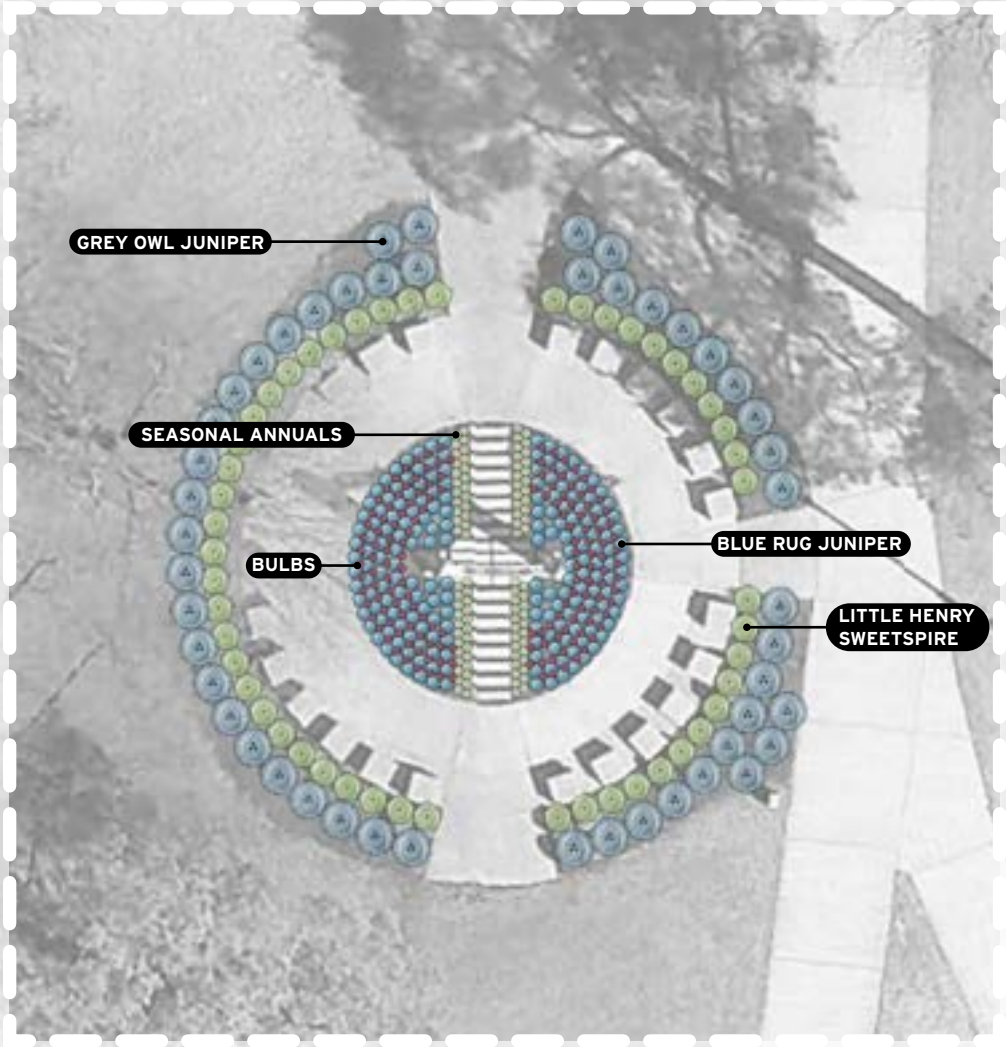
BLUE RUG JUNIPER  
*JUNIPERUS HORIZONTALIS 'BLUE RUG'*



BULBS  
TULIPS AND RED SPIDER LILY



SEASONAL ANNUALS



SCALE  
1"=10'



HIGH IMPACT PLANTING AREAS - N CARAWAY RD CAMPUS ENTRANCE

LEGEND



LITTLE HENRY SWEETSPIRE  
*ITEA VIRGINICA 'SPRICH'*



HAMELN FOUNTAIN GRASS  
*PANNISETUM ALOPECUROIDES 'HAMELN'*



BLUE RUG JUNIPER  
*JUNIPERUS HORIZONTALIS 'BLUE RUG'*



BULBS  
TULIPS AND RED SPIDER LILY



SEASONAL ANNUALS



# VISION

## HIGH IMPACT PLANTING AREAS - UNIVERSITY LOOP CAMPUS ENTRANCE



HIGH IMPACT PLANTING AREAS - RED WOLF BLVD CORNER



LEGEND



RED WOLF SCULPTURE

FOUNTAIN



BLACKGUM  
*NYSSA SYLVATICA*



BALD CYPRESS  
*TAXODIUM DISTICHUM*



RIVER BIRCH  
*BETULA NIGRA*



SWEETBAY MAGNOLIA  
*MAGNOLIA VIRGINIANA*



POND EDGE PLANTING  
*BLUE FLAG IRIS, PICKEREL WEED*



LOW NATIVE GRASSES  
*PRAIRIE DROPSEED, BLUE GRAMA GRASS*



STREAM BANK RESTORATION PLANTING  
*BUTTONBUSH, GRAY DOGWOOD, NORTHERN SEA OATS, PALM SEDGE, VIRGINIA WILD RYE, PLAINS COREOPSIS, BLUE VERVAIN*

SCALE  
1"=20'

# VISION

## HIGH IMPACT PLANTING AREAS - AGGIE RD EAST CAMPUS ENTRANCE

### LEGEND



LITTLE HENRY SWEETPIRE  
*ITEA VIRGINICA 'SPRICH'*



COMPACT INKBERRY  
*ILEX GLABRA 'COMPACTA'*



HAMELN FOUNTAIN GRASS  
*PANNISETUM ALOPECUROIDES 'HAMELN'*



BLUE RUG JUNIPER  
*JUNIPERUS HORIZONTALIS 'BLUE RUG'*



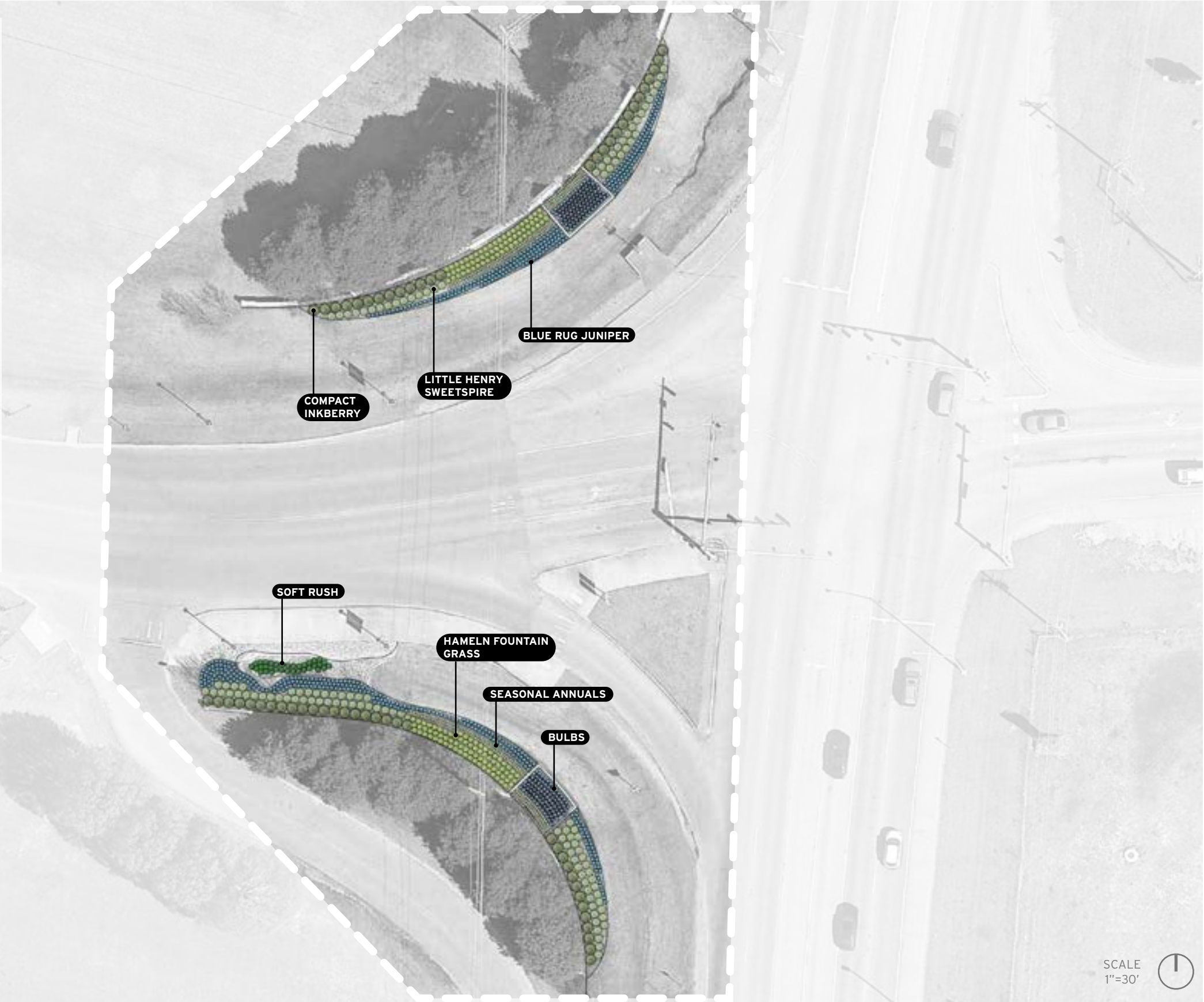
SOFT RUSH  
*JUNCUS EFFUSUS*



BULBS  
TULIPS AND RED SPIDER LILY



SEASONAL ANNUALS



SCALE  
1"=30'

# VISION

## HIGH IMPACT PLANTING AREAS - BOOKOUT CIRCLE

### LEGEND



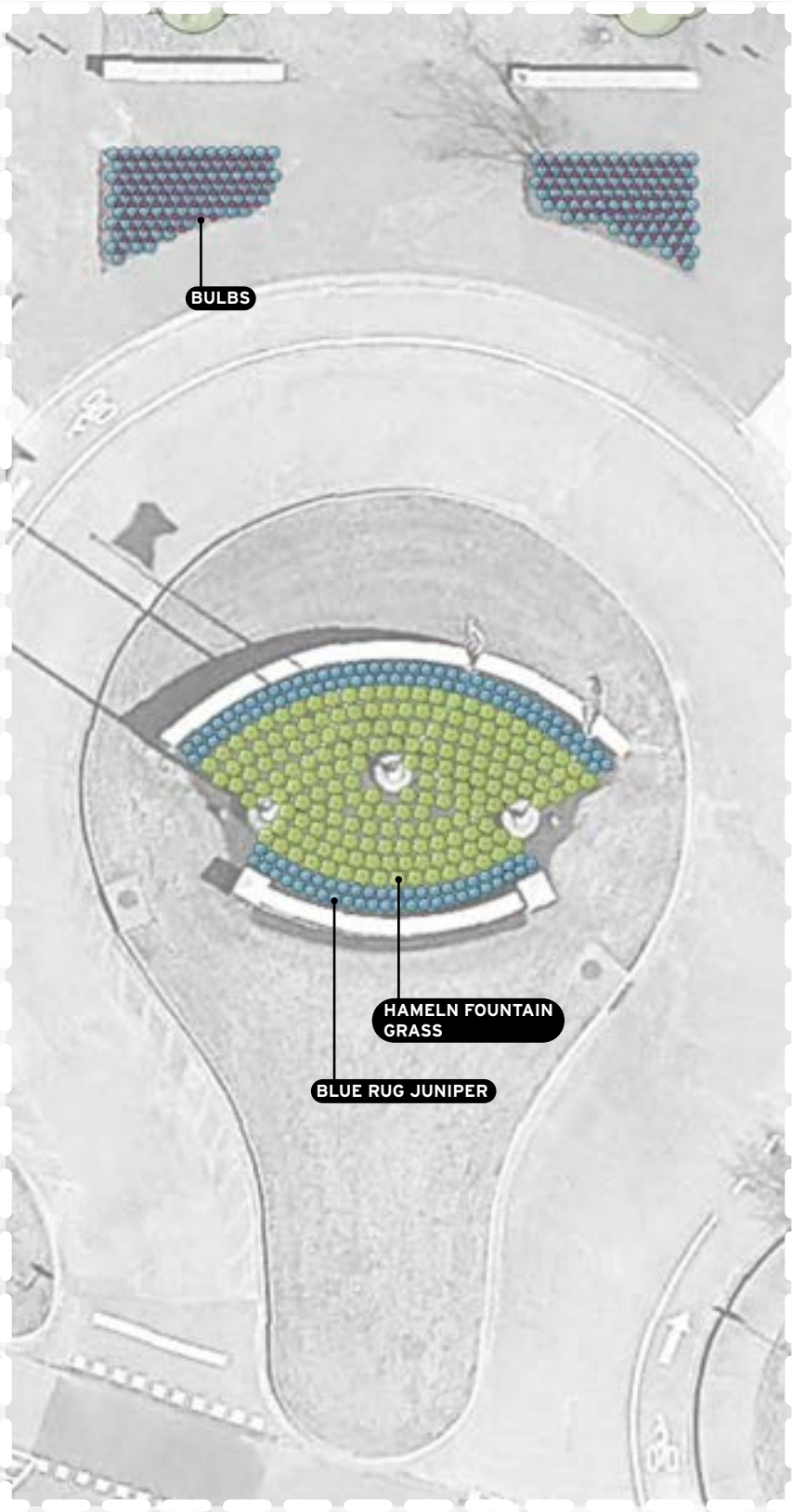
HAMELN FOUNTAIN GRASS  
*PANNISSETUM ALOPECUROIDES 'HAMELN'*



BLUE RUG JUNIPER  
*JUNIPERUS HORIZONTALIS 'BLUE RUG'*



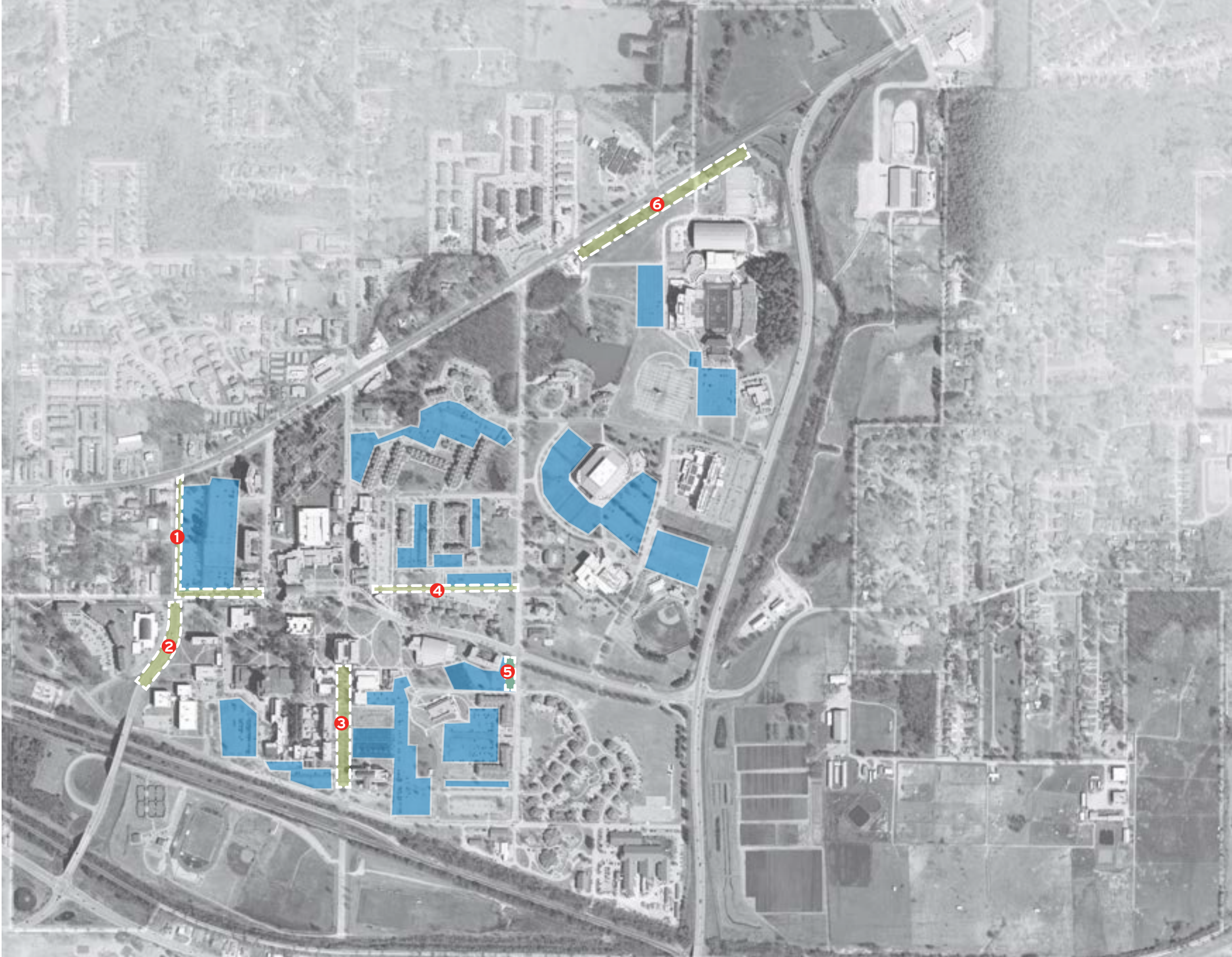
BULBS  
TULIPS AND RED SPIDER LILY



SCALE  
1"=10'

# VISION

## TREE PLANTING MASTERPLAN



### LEGEND

-  PARKING LOT TREE PLANTING
-  PROPOSED CAMPUS TREE PLANTING PROJECTS
-  1 NORTH MARION BERRY
-  2 SOUTH MARION BERRY
-  3 BOOKOUT ALLEE
-  4 PEDESTRIAN CONNECTOR
-  5 UNIVERSITY LOOP CORNER
-  6 E JOHNSON AVE EDGE

PARKING LOT TREE PLANTING

TREE WELLS TO BE INSTALLED IN ALL LARGE PARKING LOTS ACROSS CAMPUS  
PHASED OUT OVER TIME

SUGGESTED SPACING:  
+ ONE LARGE TREE WELL FOR EVERY 20 PARKING SPACES



BENEFITS

- + IMPROVED AESTHETICS
- + REDUCED URBAN HEAT ISLAND EFFECT, LOWER TEMPERATURES ACROSS CAMPUS
- + INCREASED SHADE
- + STRATEGY CAN BE IMPLEMENTED ACROSS CAMPUS WITHOUT RESTRIPIING PARKING LOTS

PARKING LOT TREE PALETTE



BALD CYPRESS  
*TAXODIUM DISTICHUM*

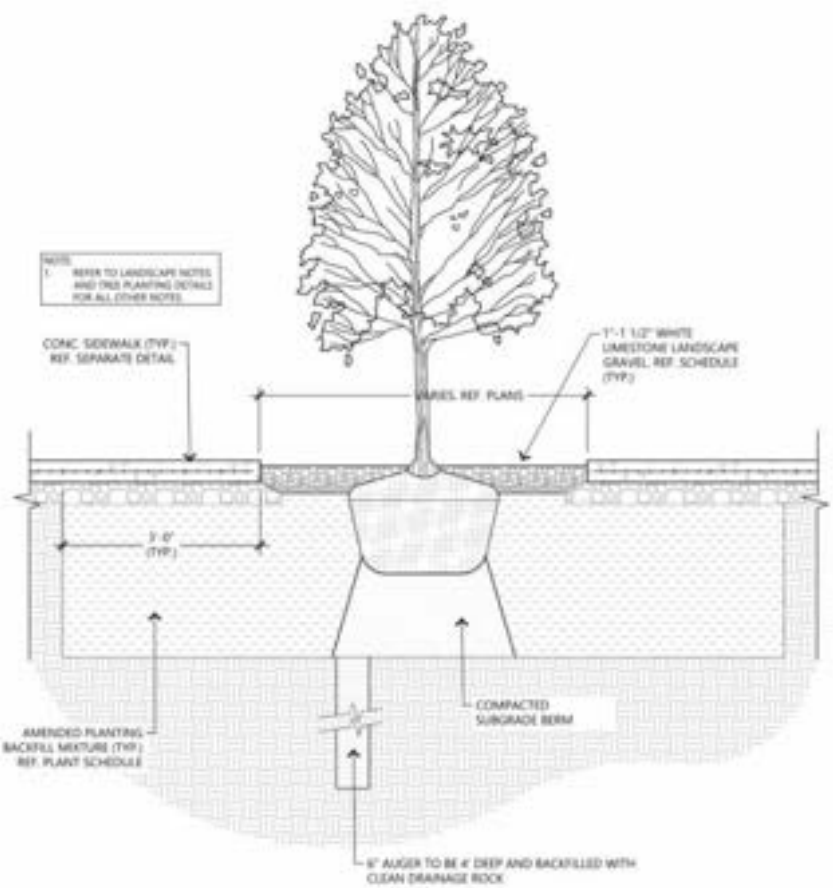


SWAMP CHESTNUT OAK  
*QUERCUS MICHAUXII*



SHUMARD OAK  
*QUERCUS SHUMARDII*

IMPLEMENTATION



- + DEMO OUT 2 FACING PARKING SPACES
- + EXCAVATE MIN. 4' DEPTH
- + INFILL WITH PLANTING SOILS,
- + INSTALL CLEAN CONCRETE EDGE
- + PLANT TREE PER DETAIL
- + MULCH WITH CLEAN WASHED ROCK
- + INSTALL WATERING BAGS TO WATER UNTIL ESTABLISHMENT

VISION

CAMPUS TREE PLAN - NORTH MARION BERRY



# VISION

## CAMPUS TREE PLAN - SOUTH MARION BERRY



# VISION

## CAMPUS TREE PLAN - BOOKOUT ALLEE



# VISION

## CAMPUS TREE PLAN - PEDESTRIAN CONNECTOR



# VISION

## CAMPUS TREE PLAN - UNIVERSITY LOOP CORNER



# VISION

## CAMPUS TREE PLAN - E JOHNSON AVE EDGE



# VISION

## GENERAL CAMPUS TREE PLANTING PALETTE

THESE TREES HAVE BEEN SELECTED FOR THEIR RESILIENCE AND AESTHETIC QUALITIES FOR VARIOUS ENVIRONMENTS ON CAMPUS.



**SERVICEBERRY**  
*AMELANCHIER ARBOREA*

SUGGESTED USE: ORNAMENTAL TREE  
NOTABLE CHARACTERISTICS: FRAGRANT WHITE FLOWERS, EDIBLE BERRIES, RED FALL COLOR  
HEIGHT X SPREAD: 20’ X 20’  
SUN: FULL SUN TO PART SHADE  
WATER: MEDIUM  
GENERAL NOTES: CAN SEND UP ROOT SUCKERS WHICH SHOULD BE CUT BACK TO MAINTAIN TREE FORM



**TULIP POPLAR**  
*LIRIODENDRON TULIIFERA*

SUGGESTED USE: STREET TREE, SHADE TREE  
NOTABLE CHARACTERISTICS: LARGE YELLOW FLOWERS AND VIBRANT YELLOW FALL COLOR  
HEIGHT X SPREAD: 75’ X 40’  
SUN: FULL SUN  
WATER: MEDIUM  
GENERAL NOTES: FAST GROWING SHADE TREE, CAN BE SENSITIVE TO DROUGHT



**BALD CYPRESS**  
*TAXODIUM DISTICHUM*

SUGGESTED USE: PARKING LOT AND STREET TREE, POND EDGE  
NOTABLE CHARACTERISTICS: BRONZE FALL COLOR  
HEIGHT X SPREAD: 60’ X 30’  
SUN: FULL SUN  
WATER: MEDIUM TO WET  
GENERAL NOTES: VERY TOUGH TREE IN URBAN CONDITIONS. CYPRESS KNEES CAN CREATE A TRIP HAZARD IN PEDESTRIAN PATHWAYS



**BLACKGUM**  
*NYSSA SYLVATICA*

SUGGESTED USE: STREET TREE, SHADE TREE, DOES WELL IN LOW MOIST SOILS  
NOTABLE CHARACTERISTICS: VIBRANT RED FALL COLOR  
HEIGHT X SPREAD: 40’ X 25’  
SUN: FULL SUN TO PART SHADE  
WATER: MEDIUM TO WET  
GENERAL NOTES: DEEP TAPROOT, AVOID PLANTING IN HIGHLY COMPACTED URBAN SOILS



**OVERCUP OAK**  
*QUERCUS LYRATA*  
SUGGESTED USE: LARGE SHADE TREE IN LAWN, DOES WELL IN LOW MOIST SOILS  
NOTABLE CHARACTERISTICS: YELLOW TO RED FALL COLOR  
HEIGHT X SPREAD: 60’ X 60’  
SUN: FULL SUN  
WATER: MEDIUM TO WET  
GENERAL NOTES: VERY TOUGH TREE IN URBAN CONDITIONS, LEAVES COME OUT LATER THAN MOST IN THE SPRING



**NUTTALL OAK**  
*QUERCUS TEXANA*

SUGGESTED USE: LARGE SHADE TREE IN LAWN, DOES WELL IN LOW MOIST SOILS  
NOTABLE CHARACTERISTICS: RED FALL COLOR  
HEIGHT X SPREAD: 65’ X 50’  
SUN: FULL SUN  
WATER: MEDIUM  
GENERAL NOTES: GROWS WELL IN HEAVY CLAY SOILS

VISION

ARBORETUM TREE PLANTING PALETTE

AS UNHEALTHY TREES ARE REMOVED AND REPLACED ON CAMPUS, THESE TREES SHOULD BE CONSIDERED FOR THE REPLACEMENT PLANTING. THESE SPECIES ARE NOT CURRENTLY REPRESENTED ON CAMPUS, AND THEIR ADDITION WILL ALLOW ASTATE TO REACH LEVEL 2 ARBORETUM STATUS.



**AMERICAN LINDEN**  
*TILIA AMERICANA*

SUGGESTED USE: SHADE TREE IN LAWN  
HEIGHT X SPREAD: 65’ X 40’  
SUN: FULL SUN TO PART SHADE  
WATER: MEDIUM



**BIGLEAF MAGNOLIA**  
*MAGNOLIA MACROPHYLLA*

SUGGESTED USE: SPECIMEN TREE IN SHELTERED AREA  
HEIGHT X SPREAD: 35’ X 35’  
SUN: FULL SUN TO PART SHADE  
WATER: MEDIUM



**BITTERNUT HICKORY**  
*CARYA CORDIFORMIS*

SUGGESTED USE: SHADE TREE, STREET TREE IN LAWN  
HEIGHT X SPREAD: 65’ X 40’  
SUN: FULL SUN  
WATER: MEDIUM TO WET



**MOCKERNUT HICKORY**  
*CARYA TOMENTOSA*

SUGGESTED USE: SHADE TREE IN LAWN  
HEIGHT X SPREAD: 70’ X 50’  
SUN: FULL SUN  
WATER: MEDIUM



**SHAGBARK HICKORY**  
*CARYA OVATA*

SUGGESTED USE: SHADE TREE IN LAWN  
HEIGHT X SPREAD: 80’ X 60’  
SUN: FULL SUN TO PART SHADE  
WATER: MEDIUM



**BIGTREE PLUM**  
*PRUNUS MEXICANA*

SUGGESTED USE: ORNAMENTAL TREE, EDIBLE  
HEIGHT X SPREAD: 20’ X 20’  
SUN: FULL SUN TO PART SHADE  
WATER: MEDIUM



**BLACK OAK**  
*QUERCUS VELUTINA*

SUGGESTED USE: SHADE TREE, STREET TREE  
HEIGHT X SPREAD: 55’ X 55’  
SUN: FULL SUN  
WATER: DRY TO MEDIUM



**BLACKJACK OAK**  
*QUERCUS MARILANDICA*

SUGGESTED USE: SHADE TREE IN LAWN  
HEIGHT X SPREAD: 30’ X 30’  
SUN: FULL SUN  
WATER: DRY TO MEDIUM



**BOX ELDER**  
*ACER NEGUNDO*

SUGGESTED USE: SHADE TREE IN LAWN  
HEIGHT X SPREAD: 40’ X 40’  
SUN: FULL SUN  
WATER: MEDIUM TO WET



**COMMON PAWPAW**  
*ASIMINA TRILOBA*

SUGGESTED USE: RAIN GARDEN, FOREST EDGE, EDIBLE  
HEIGHT X SPREAD: 25’ X 25’  
SUN: FULL SUN TO PART SHADE  
WATER: MEDIUM TO WET



**DAWN REDWOOD**  
*METASEQUOIA GLYPTOSTROBOIDES*

SUGGESTED USE: RAIN GARDEN, POND EDGE  
HEIGHT X SPREAD: 85’ X 20’  
SUN: FULL SUN  
WATER: MEDIUM TO WET



**GREEN HAWTHORN**  
*CRATAEGUS VIRIDIS*

SUGGESTED USE: ORNAMENTAL TREE  
HEIGHT X SPREAD: 30’ X 30’  
SUN: FULL SUN  
WATER: DRY TO MEDIUM



**HOP HORNBEAM**  
*OSTRYA VIRGINIANA*

SUGGESTED USE: SHADE TREE, STREET TREE  
HEIGHT X SPREAD: 30’ X 25’  
SUN: FULL SUN TO PART SHADE  
WATER: MEDIUM



**SASSAFRAS**  
*SASSAFRAS ALBIDUM*

SUGGESTED USE: FOREST EDGE  
HEIGHT X SPREAD: 45’ X 30’  
SUN: FULL SUN TO PART SHADE  
WATER: MEDIUM

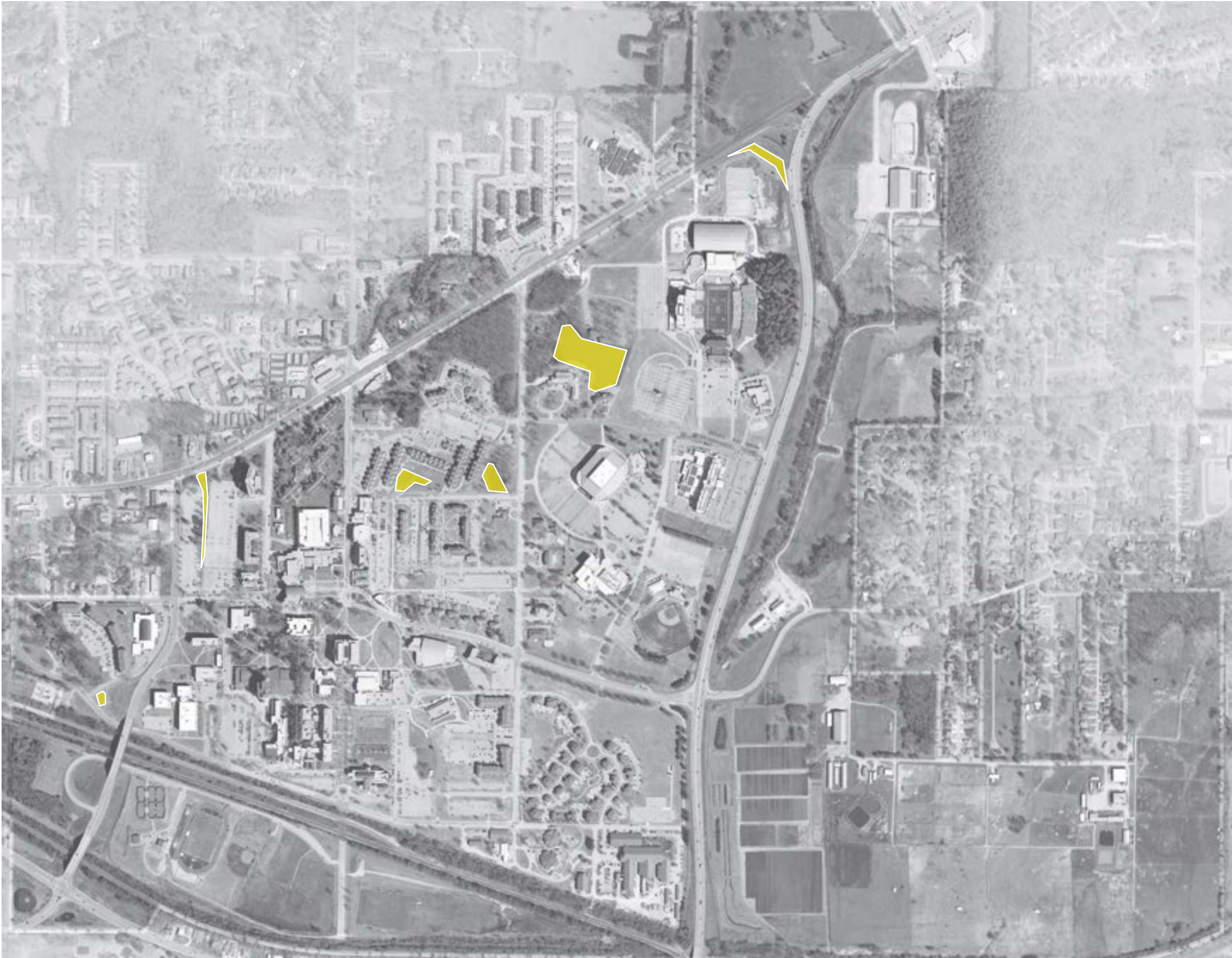


**WATER TUPELO**  
*NYSSA AQUATICA*

SUGGESTED USE: RAIN GARDEN, POND EDGE  
HEIGHT X SPREAD: 65’ X 40’  
SUN: FULL SUN TO PART SHADE  
WATER: MEDIUM TO WET

# VISION

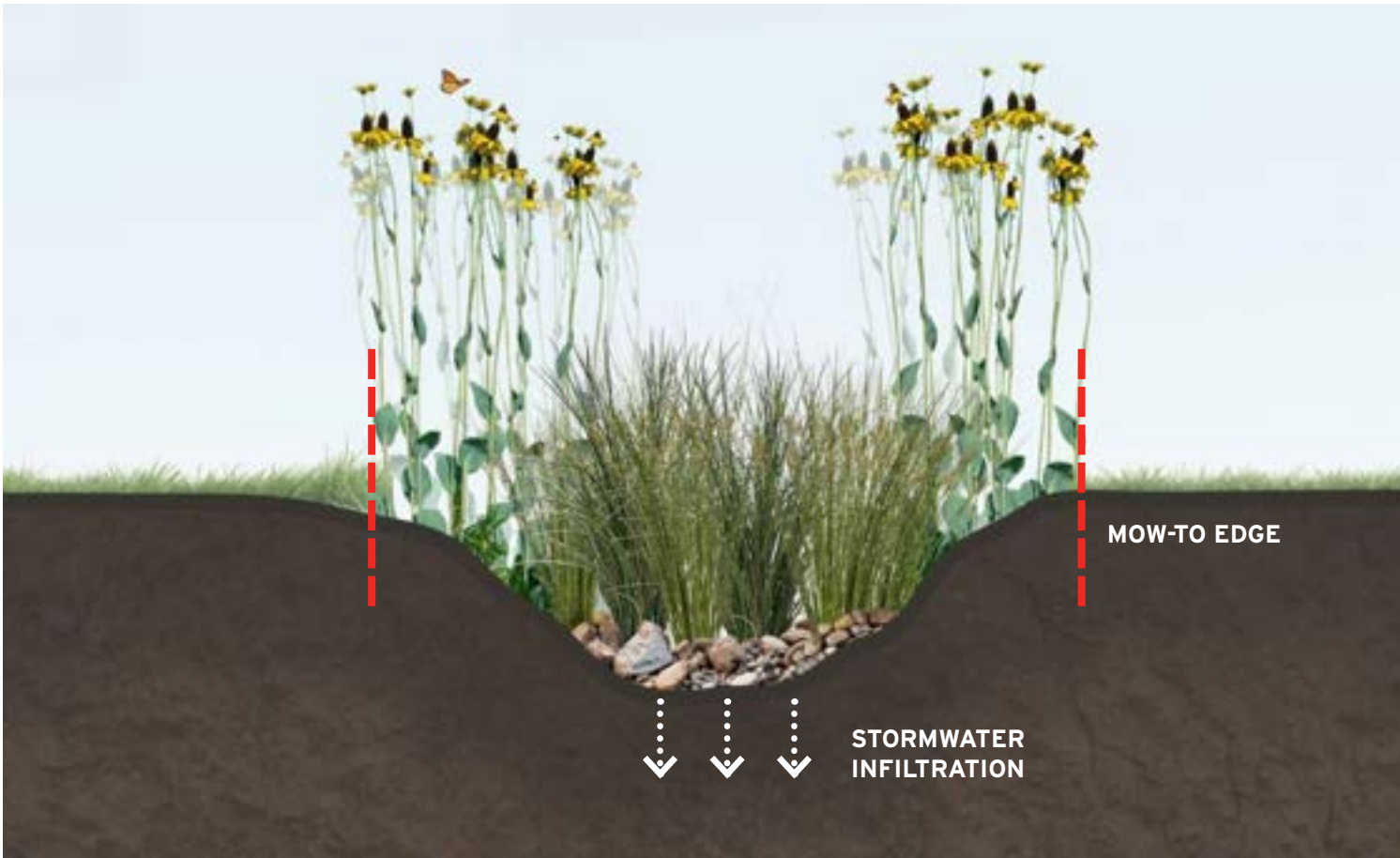
## STORMWATER DETENTION IMPROVEMENT AREAS



### LEGEND

- STORMWATER DETENTION IMPROVEMENT AREAS

SWALE IMPROVEMENTS



CROWLEY'S RIDGE DRAINAGE ROCK



SOFT RUSH  
*JUNCUS EFFUSUS*

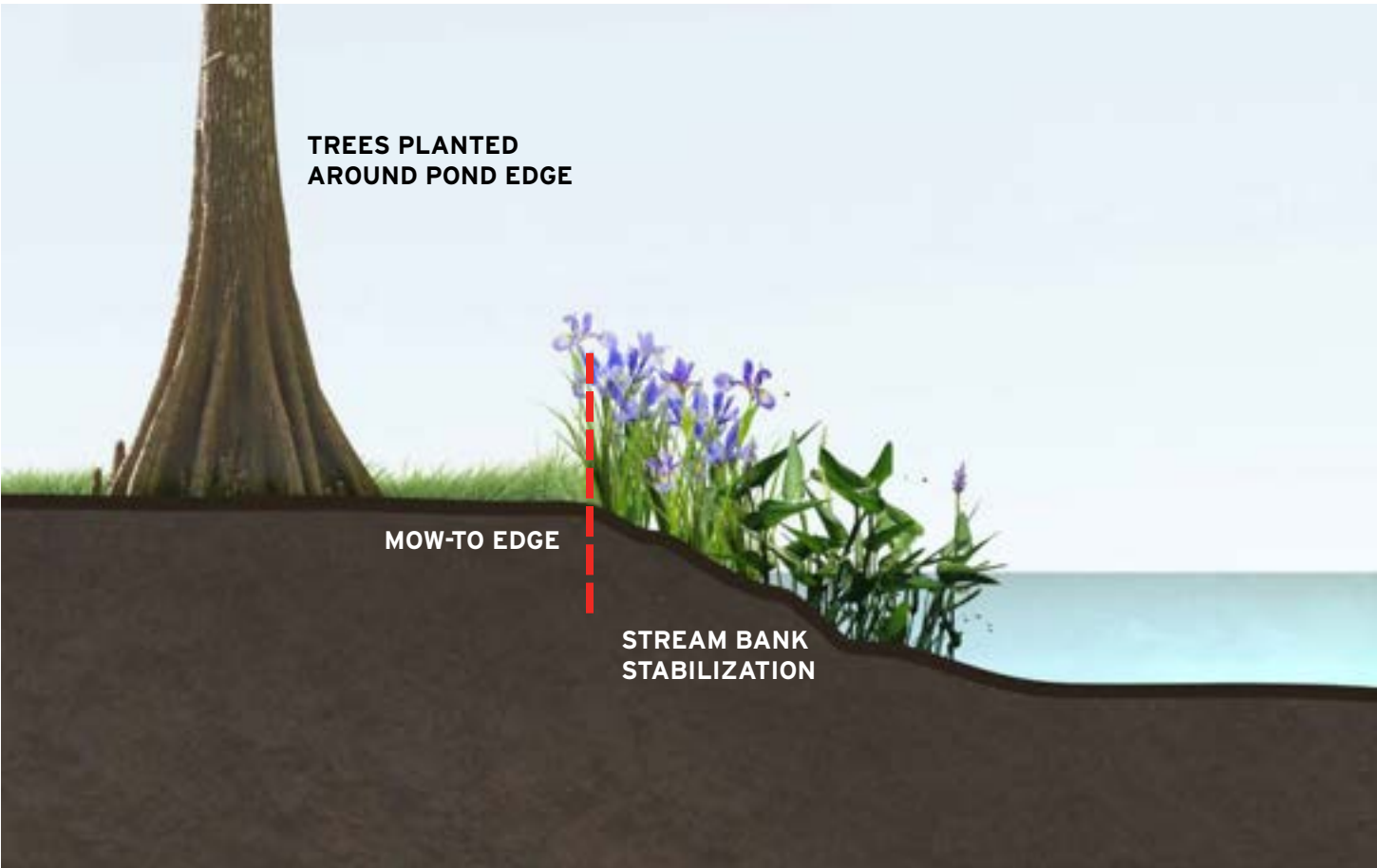


LARGE CONEFLOWER  
*RUDBECKIA MAXIMA*

DRAINAGE SWALES

- + IMPROVED AESTHETICS
- + TOOL FOR EDUCATION ON STORMWATER SYSTEMS
- + REDUCES EROSION AND INCREASES INFILTRATION
- + REPEATED PLANT PALETTE AND MATERIALS STRENGTHENS COHESIVE CAMPUS FEEL

POND IMPROVEMENTS



BALD CYPRESS + WATER TUPELO  
*TAXODIUM DISTICHUM + NYSSA AQUATICA*



SOUTHERN BLUE FLAG IRIS  
*IRIS VIRGINICA*



PICKEREL WEED  
*PONTEDERIA CORDATA*

DETENTION PONDS

- + IMPROVED AESTHETICS, MAKES PONDS ATTRACTIVE PLACES FOR STUDENTS TO ENJOY
- + TOOL FOR EDUCATION ON STORMWATER SYSTEMS
- + IMPROVES BANK STABILIZATION AND REDUCES EROSION
- + SIMPLIFIES MAINTENANCE

# IMPLEMENTATION

STARTING A CONVERSATION FOR STRATEGIC  
IMPLEMENTATION OVER TIME

## IMPLEMENTATION

### OVERVIEW



#### + PRIORITIZE CAMPUS CORE IMPROVEMENTS

- INITIAL PHASES TO FOCUS ON RECRUITMENT TOUR ROUTE THROUGH CAMPUS
- PHASING PROJECTS BASED ON HIGHEST IMPACT ON THE CAMPUS CORE



#### + MANAGMENT AND EXPERTISE

- ADDITIONAL EXPERTISE IS RECOMMENDED TO ADDRESS THE LANDSCAPE DISEASE AND HEALTH ISSUES ON CAMPUS
- ADDING A URBAN FORESTER OR CERTIFIED ARBORIST TO THE TEAM WOULD BE HIGHLY BENEFICIAL
- A MANAGMENT GUIDE HAS BEEN PROVIDED ALONG WITH THIS MASTERPLAN TO PROVIDE GENERAL GUIDANCE ON CAMPUS MAINTENANCE

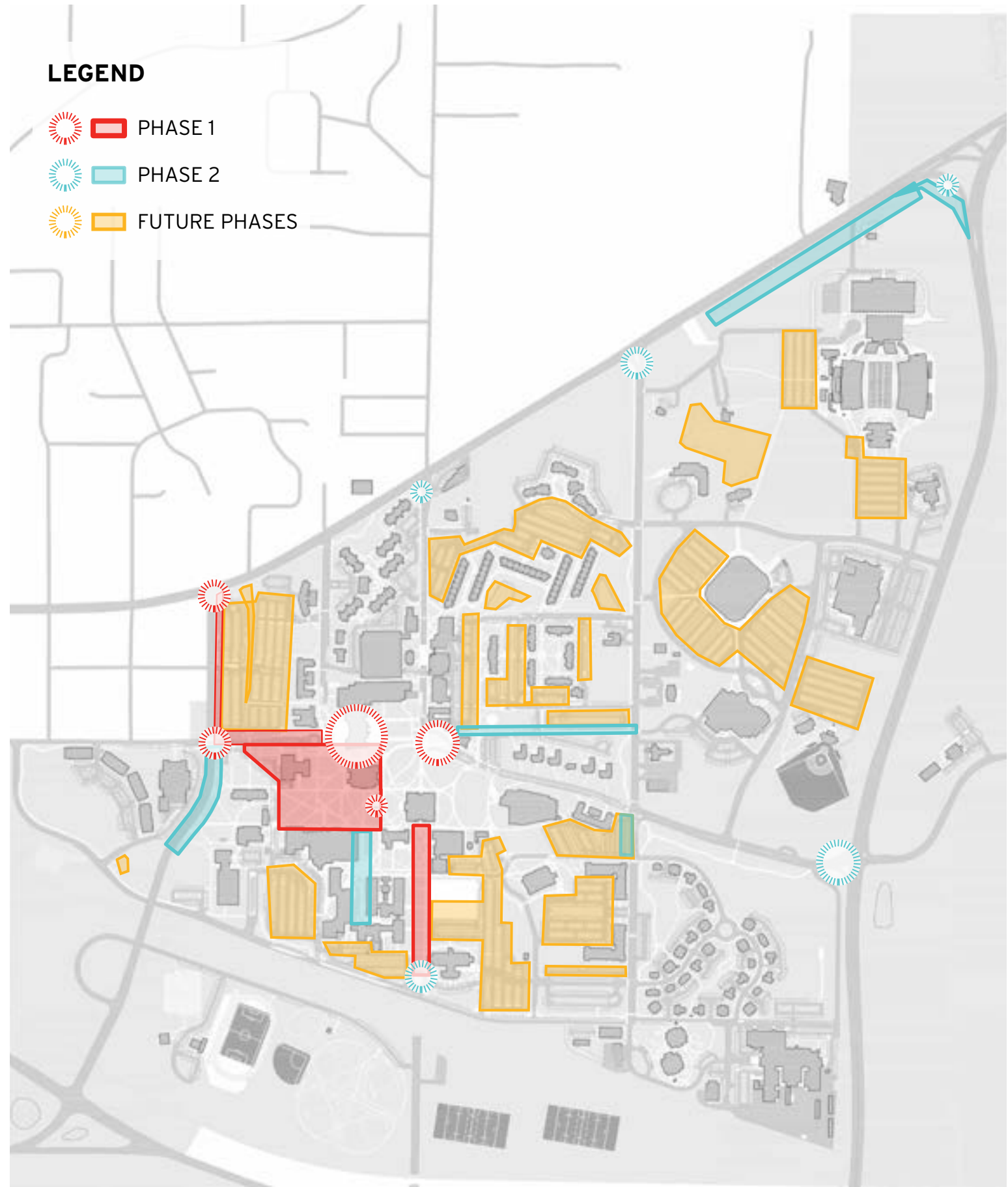


#### + KIT OF PARTS

- THE GUIDELINES IN THIS MASTERPLAN HAVE BEEN SET UP TO BE EASILY REPLICATED AND APPLIED ACROSS CAMPUS
- AS FUNDING IS SECURED OVER TIME FOR NEW PROJECTS, THE STANDARDS SET IN THIS PLAN CAN BE IMPLEMENTED BASED ON THE GENERAL CONDITION OF THE PROJECT SITE

# IMPLEMENTATION

## PHASING PLAN + COST ESTIMATE



| Landscape |                                                              | Quantity |    | Unit Cost    |  | Cost          | Total        |
|-----------|--------------------------------------------------------------|----------|----|--------------|--|---------------|--------------|
| PHASE 1   |                                                              |          |    |              |  |               |              |
|           | Campus Core Improvements                                     |          |    |              |  |               | \$418,750.00 |
|           | Lawn Improvements                                            | 1        | ls | \$225,000.00 |  | \$225,000.00  |              |
|           | Admin                                                        | 1        | ls | \$125,000.00 |  | \$125,000.00  |              |
|           | NYIT                                                         | 1        | ls | \$31,250.00  |  | \$31,250.00   |              |
|           | Library                                                      | 1        | ls | \$37,500.00  |  | \$37,500.00   |              |
|           | High Impact Planting Areas                                   |          |    |              |  |               | \$295,000.00 |
|           | Marion Berry Campus Entrance Sign Planting                   | 1        | ls | \$12,500.00  |  | \$12,500.00   |              |
|           | Aggie Rd West Campus Entrance                                | 1        | ls | \$62,500.00  |  | \$62,500.00   |              |
|           | Reng Student Union West                                      | 1        | ls | \$37,500.00  |  | \$37,500.00   |              |
|           | Reng Student Union East                                      | 1        | ls | \$12,500.00  |  | \$12,500.00   |              |
|           | Howl Sculpture Planting                                      | 1        | ls | \$10,000.00  |  | \$10,000.00   |              |
|           | Aggie Rd Welcome Center Loop                                 | 1        | ls | \$150,000.00 |  | \$150,000.00  |              |
|           | A&M College Arch                                             | 1        | ls | \$10,000.00  |  | \$10,000.00   |              |
|           | Campus Tree Plan                                             |          |    |              |  |               | \$100,000.00 |
|           | North Marion Berry Tree Planting                             | 1        | ls | \$25,000.00  |  | \$25,000.00   |              |
|           | Bookout Allee Tree Planting                                  | 1        | ls | \$75,000.00  |  | \$75,000.00   |              |
|           |                                                              |          |    |              |  | Subtotal      | \$813,750    |
| a         | Contractor General Conditions                                | 15%      | %  | \$813,750    |  |               | \$122,063    |
| b         | Contingency                                                  | 10%      | %  | \$813,750    |  |               | \$81,375     |
| c         | Survey + Construction Drawings - Construction Administration | 10%      | %  | \$813,750    |  |               | \$81,375     |
|           |                                                              |          |    |              |  | Phase 1 Total | \$1,098,563  |

|                   |                                                                              | Quantity |    | Unit Cost    |  | Cost          | Total        |
|-------------------|------------------------------------------------------------------------------|----------|----|--------------|--|---------------|--------------|
| Civil & Landscape |                                                                              |          |    |              |  |               |              |
| PHASE 2           |                                                                              |          |    |              |  |               |              |
|                   | Campus Core Improvements                                                     |          |    |              |  |               | \$50,000.00  |
|                   | Lab Sciences                                                                 | 1        | ls | \$50,000.00  |  | \$50,000.00   |              |
|                   | High Impact Planting Areas                                                   |          |    |              |  |               | \$378,000.00 |
|                   | Red Wolf Blvd Corner                                                         | 1        | ls | \$250,000.00 |  | \$250,000.00  |              |
|                   | Aggie Rd East Campus Entrance                                                | 1        | ls | \$100,000.00 |  | \$100,000.00  |              |
|                   | Bookout Circle                                                               | 1        | ls | \$12,500.00  |  | \$12,500.00   |              |
|                   | N Caraway Rd Campus Entrance                                                 | 1        | ls | \$7,500.00   |  | \$7,500.00    |              |
|                   | University Loop Campus Entrance                                              | 1        | ls | \$8,000.00   |  | \$8,000.00    |              |
|                   | Campus Tree Plan                                                             |          |    |              |  |               | \$160,000.00 |
|                   | South Marion Berry Tree Planting                                             | 1        | ls | \$50,000.00  |  | \$50,000.00   |              |
|                   | Pedestrian Connector Tree Planting                                           | 1        | ls | \$50,000.00  |  | \$50,000.00   |              |
|                   | University Loop Corner Tree Planting & Improvements                          | 1        | ls | \$15,000.00  |  | \$15,000.00   |              |
|                   | E Johnson Ave Edge Tree Planting                                             | 1        | ls | \$45,000.00  |  | \$45,000.00   |              |
|                   |                                                                              |          |    |              |  | Subtotal      | \$588,000    |
| a                 | Contractor General Conditions                                                | 15%      | %  | \$588,000    |  |               | \$88,200     |
| b                 | Contingency                                                                  | 10%      | %  | \$588,000    |  |               | \$58,800     |
| c                 | Survey - Environmental + Construction Drawings - Construction Administration | 10%      | %  | \$588,000    |  |               | \$58,800     |
|                   |                                                                              |          |    |              |  | Phase 2 Total | \$793,800    |

# APPENDIX

## COMPILED EDG MASTERPLANNING WORK FOR ASTATE

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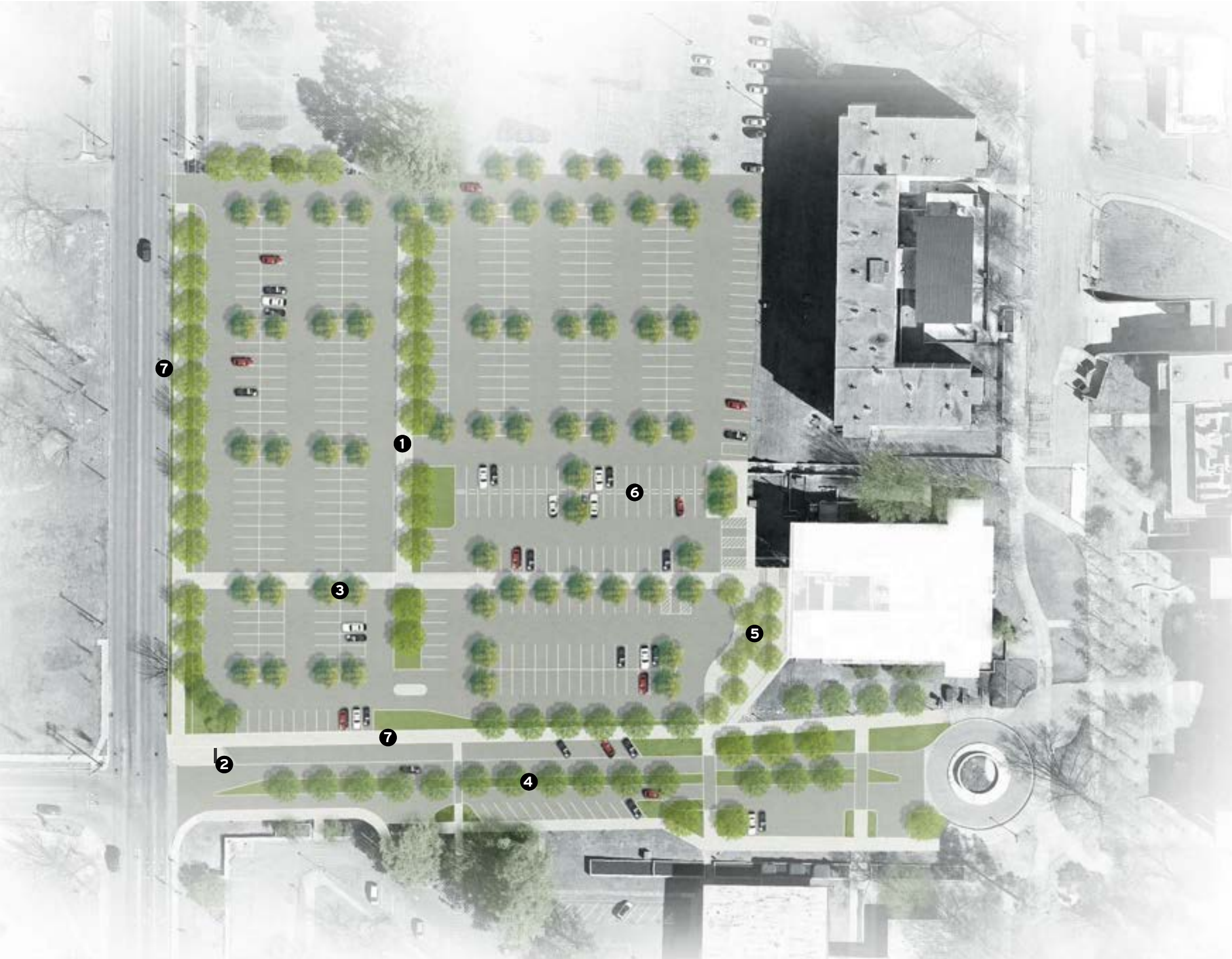
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# APPENDIX

## CAMPUS WEST ENTRANCE MASTERPLAN



### LEGEND

- 1 PEDESTRIAN PATH
- 2 CONCRETE ASTATE LETTERS W/ LIGHTING
- 3 PARKING LOT TREES
- 4 SOD WITH TREES
- 5 FUTURE NYIT PLAZA
- 6 WHEEL STOPS TO SEPARATE PARKING LOTS
- 7 LIGHT POLE BANNERS



CONCRETE LETTER SIGN PRECEDENT

APPENDIX

ASTATE ARTS + INNOVATION



ASTATE ARTS + INNOVATION DISTRICT

DISTRICT BOUNDARIES



FLEX SPACE ART NODES





- CIRCULATION**
- PATHWAYS
  - PLAZAS
  - FLEX SPACE NODES













APPENDIX

ASTATE FINE ARTS PLAZA

ASTATE  
FINE ARTS PLAZA  
E | D | G





scored and lightly sandblasted concrete



crushed stone without fines



shade trees in crushed stone



art sculptures



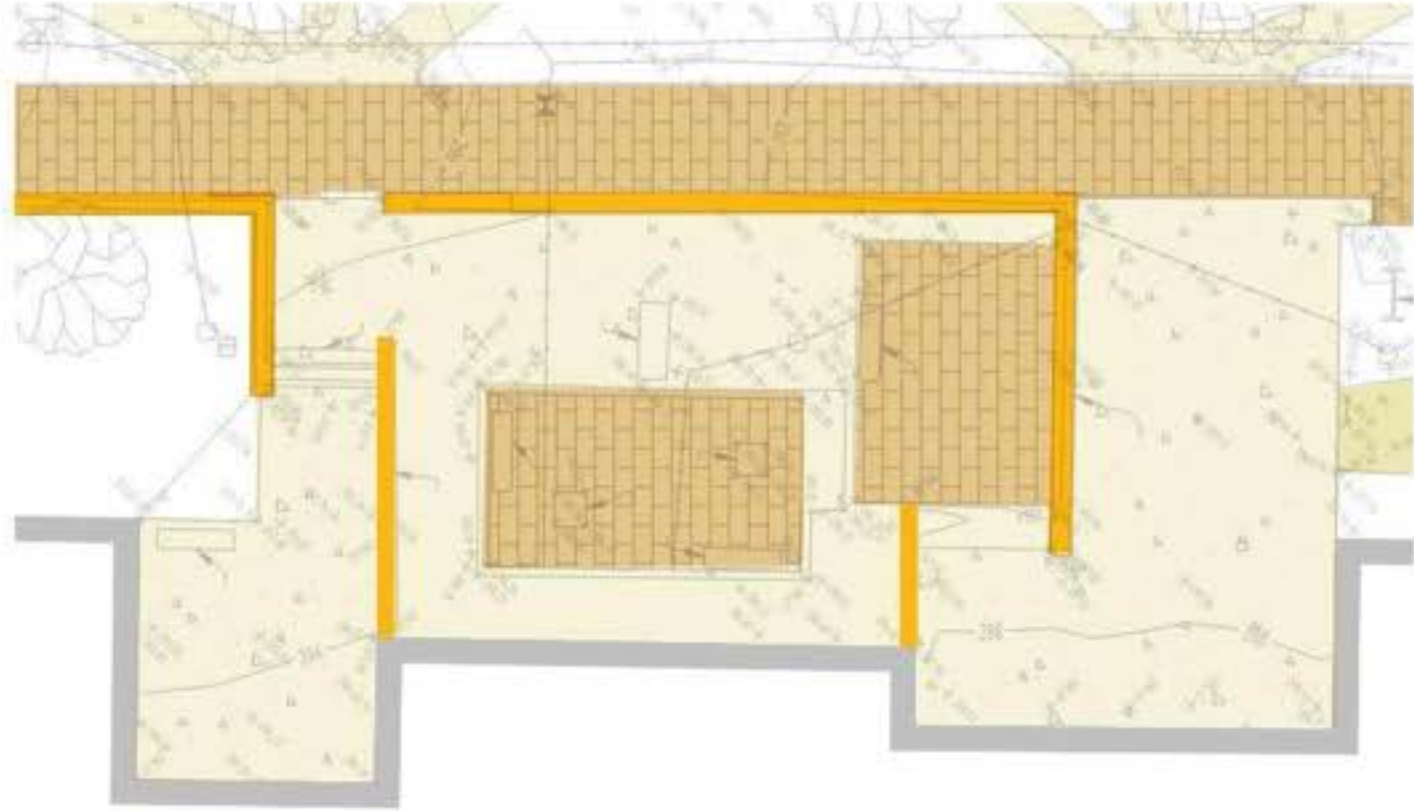
concrete benches



native plants

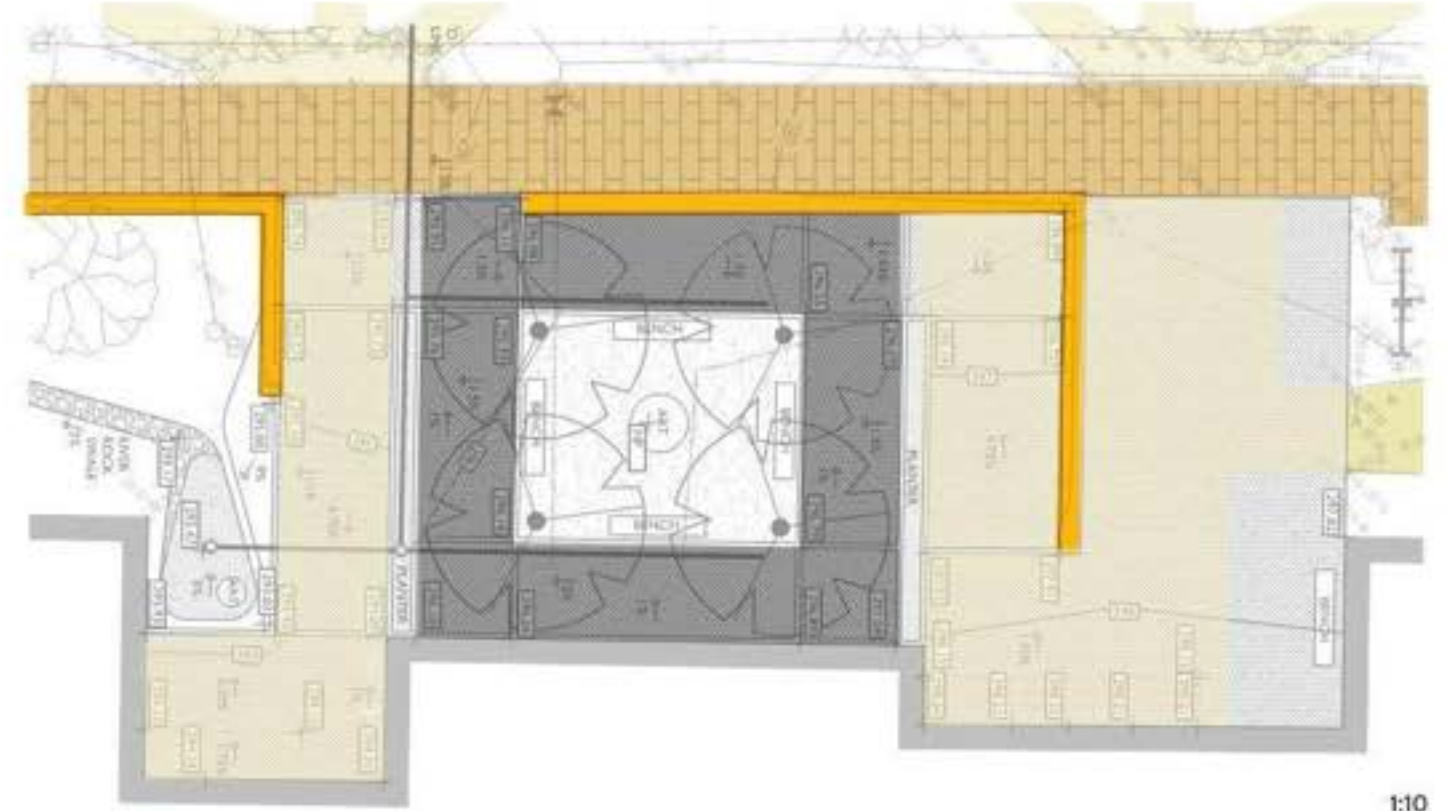
## BEFORE

Lack of material cohesion throughout plaza



## AFTER

Unified material palette throughout plaza



1:10



### MATERIALS

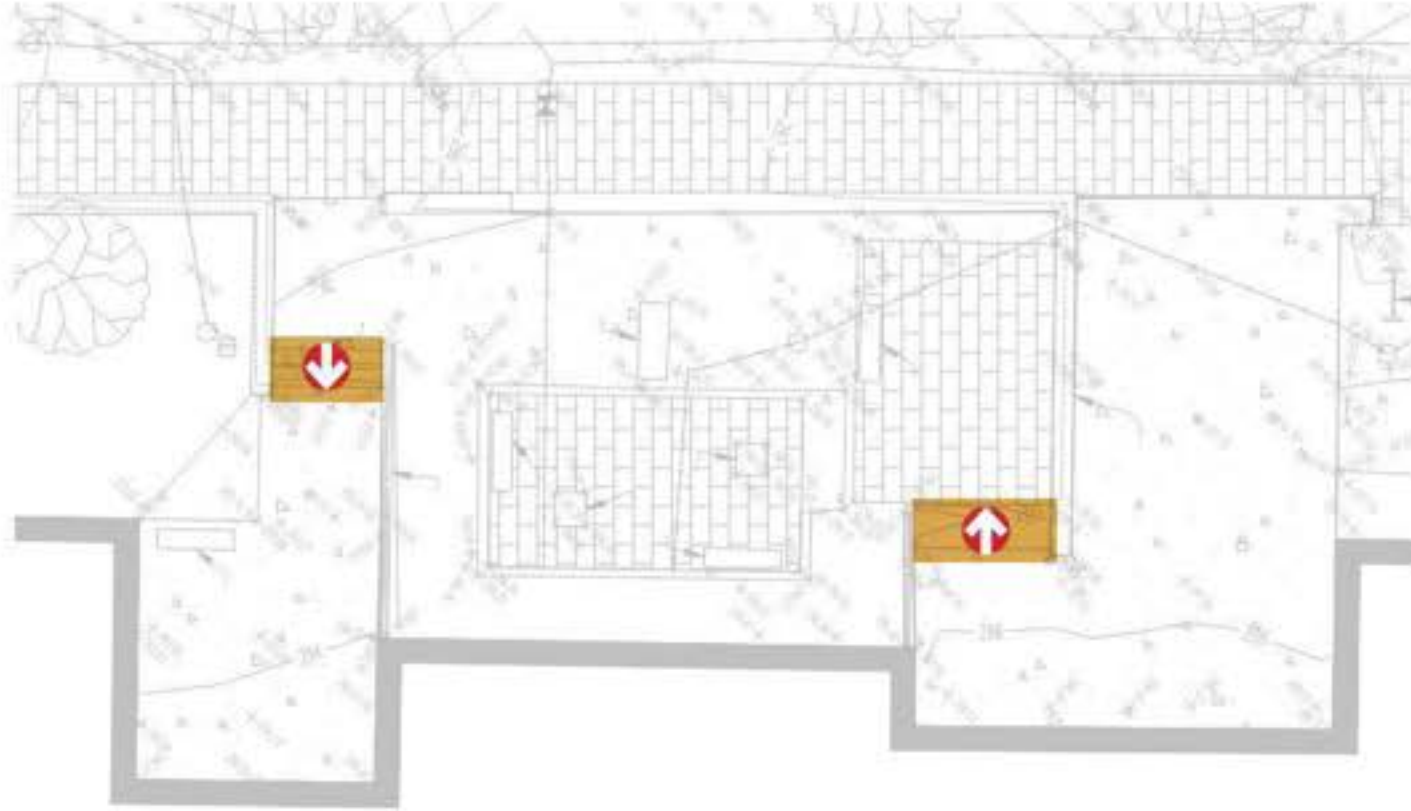
-  concrete
-  existing brick
-  scored concrete
-  brick wall with concrete cap



## BEFORE

### EXISTING ADA ISSUES

existing stairs with no ada accessibility



## AFTER

### PROPOSED ADA SOLUTION

4.75% sloped ramps replacing existing stairs



1:10  
N

SITE PLAN AND SCHEMATIC STORMWATER STRATEGY

DRAINAGE



surface  
stormwater  
direction

1. away from  
building

2. directed  
to permeable sur-  
faces



planted area



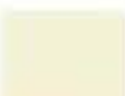
concrete bands



river cobble



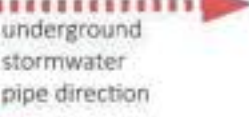
permeable brick



concrete



surface  
stormwater  
overflow



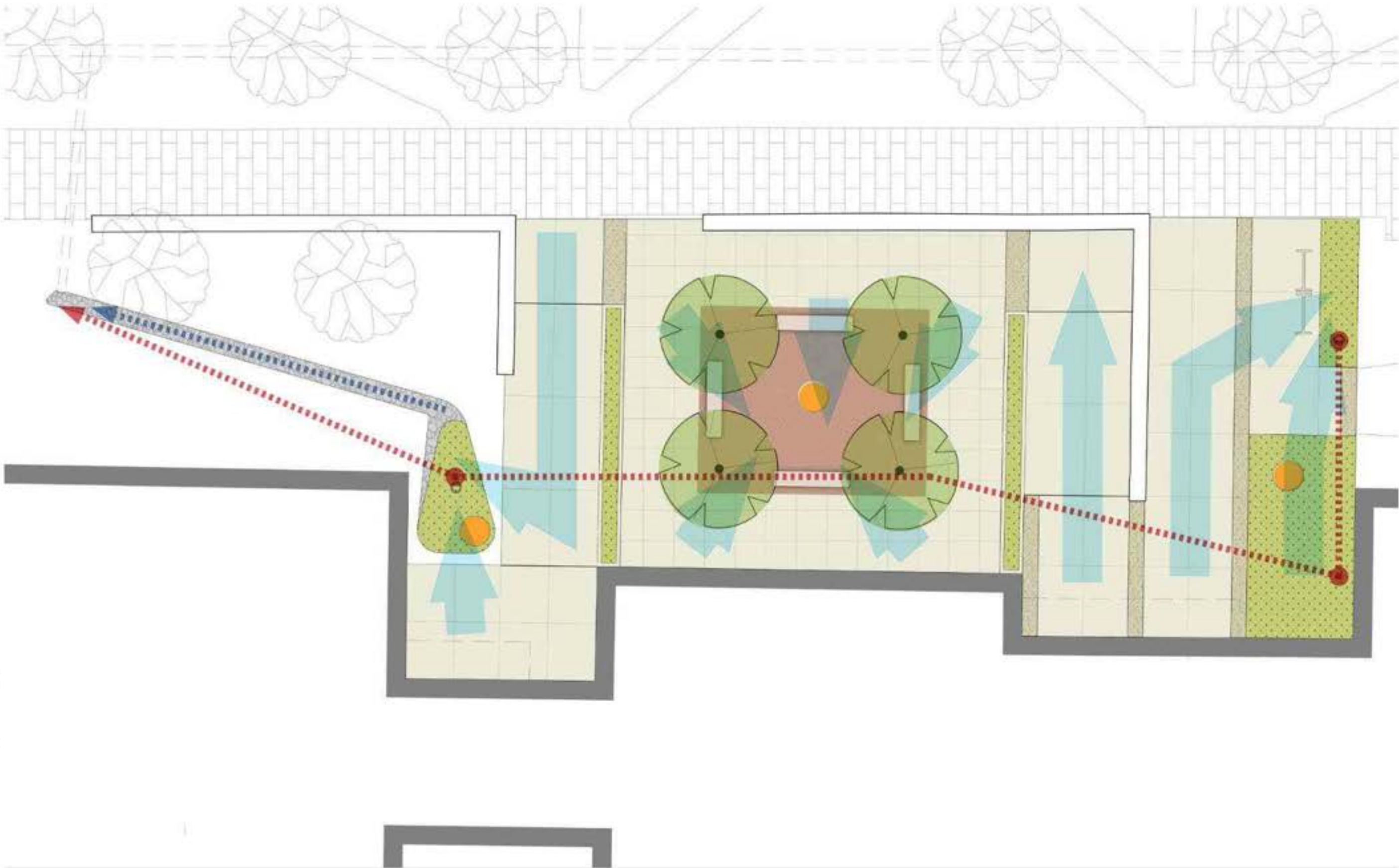
underground  
stormwater  
pipe direction



inlet



sculpture location















## ASTATE - Fine Arts Plaza

Project No: 19-055

| Sitework Improvements                  |                                        | Quantity |     | Unit Cost    |     | Cost                | Total               |
|----------------------------------------|----------------------------------------|----------|-----|--------------|-----|---------------------|---------------------|
| 1                                      | Division 1 - General Requirements      |          |     |              |     |                     | \$10,000.00         |
|                                        | Erosion Control + Mobilization         | 1        | ls  | \$10,000     | ls  | \$10,000            |                     |
| 2                                      | Division 2 - Existing Conditions       |          |     |              |     |                     | \$7,200.00          |
|                                        | Site Prepration - Demolition           | 240      | cy  | \$30         | cy  | \$7,200             |                     |
|                                        | Construction Fencing                   | 650      | lf  | \$10         | lf  | \$6,500             |                     |
| 31                                     | Division 31 - Earthwork                |          |     |              |     |                     | \$2,880.00          |
|                                        | Earthwork                              | 240      | cy  | \$12         | cy  | \$2,880             |                     |
| 32                                     | Division 32 - Exterior Improvements    |          |     |              |     |                     | \$118,200.00        |
|                                        | Protect/Repair/Replace Existing Walls  | 100      | lf  | \$100        | lf  | \$10,000            |                     |
|                                        | Concrete Plaza                         | 50       | cy  | \$350        | cy  | \$17,500            |                     |
|                                        | Colored Concrete                       | 5        | cy  | \$400        | cy  | \$2,000             |                     |
|                                        | Porous Pavers                          | 725      | sf  | \$26         | sf  | \$18,850            |                     |
|                                        | Compaced Stone Base                    | 90       | ton | \$35         | ton | \$3,150             |                     |
|                                        | Drainline                              | 200      | lf  | \$60         | lf  | \$12,000            |                     |
|                                        | Inlets or Junction Boxes               | 3        | ea  | \$3,500      | ea  | \$10,500            |                     |
|                                        | Trees                                  | 4        | ea  | \$750        | ea  | \$3,000             |                     |
|                                        | Benches                                | 4        | ea  | \$1,500      | ea  | \$6,000             |                     |
|                                        | Plant Material + landscape preparation | 200      | ea  | \$45         | ea  | \$9,000             |                     |
|                                        | Irrigation                             | 1        | ls  | \$5,000      | ls  | \$5,000             |                     |
|                                        | Electrical - site lighting             | 1        | ls  | \$10,000     | ls  | \$10,000            |                     |
|                                        | Concrete Planter Wall                  | 160      | lf  | \$70         | lf  | \$11,200            |                     |
|                                        |                                        |          |     |              |     | <b>Subtotal</b>     | <b>\$138,280.00</b> |
| <b>Contractor Fees and Contingency</b> |                                        |          |     |              |     |                     | \$36,644            |
|                                        | Moblization-General Conditions         | 0.150    | %   | \$138,280.00 |     | \$20,742            |                     |
|                                        | Contingency                            | 0.100    | %   | \$159,022.00 |     | \$15,902            |                     |
|                                        |                                        |          |     |              |     | <b>Const. Total</b> | <b>\$174,924</b>    |

# CONSTRUCTION DOCUMENTS

June 01, 2022

## 100% CONSTRUCTION DRAWINGS

ASTATE FINE ARTS PLAZA  
2412 QUAPAW WAY  
JONESBORO, AR 72401

### SHEET INDEX

|                                                  |   |
|--------------------------------------------------|---|
| COVER SHEET                                      | 1 |
| SITE DEMOLITION & TREE PRESERVATION PLAN (C0.10) | 2 |
| SITE AND LAYOUT PLAN (C1.00)                     | 3 |
| SITE GRADING & DRAINAGE PLAN (C2.00)             | 4 |
| SITE EROSION CONTROL PLAN (C3.00)                | 5 |
| SITE DETAILS (C4.00)                             | 6 |
| SITE DETAILS (C4.01)                             | 7 |
| LANDSCAPE PLAN (L1.00)                           | 8 |

SITE



VICINITY MAP

### PRIME DESIGNER

E | D | G

#### Ecological Design Group, Inc.

|                                              |                                  |
|----------------------------------------------|----------------------------------|
| 120 S. Izard Street<br>Little Rock, AR 72201 | p 501.378.0200<br>f 501.378.0201 |
| 216 W Birch Street<br>Rogers, AR 72756       | p 479.935.4826<br>501.944.3090   |
| 210 E. Merriman Ave.<br>Wynne, AR 72396      | p 870.588.6426<br>f 870.238.8310 |

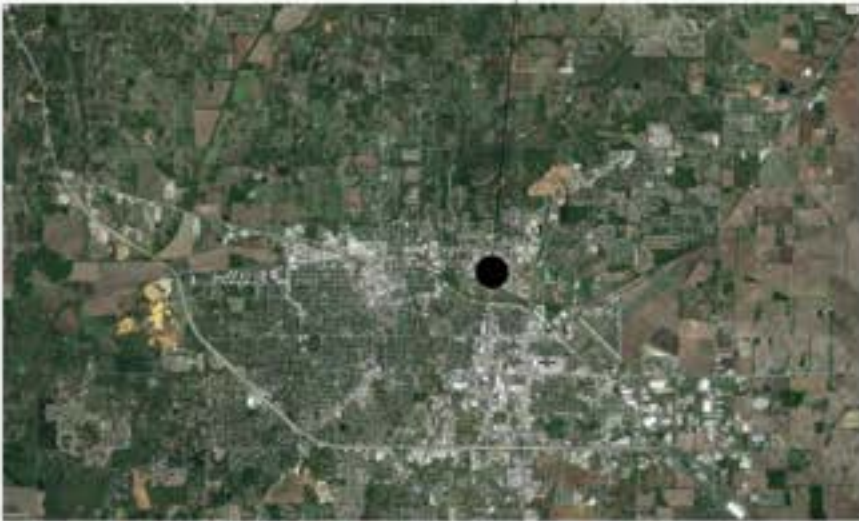
### OWNER CONTACTS

Facilities Management  
2713 Pawnee Building A  
Jonesboro, Arkansas 72401

#### Arkansas State University



SITE



REGIONAL MAP

\*AS NEEDED TO PROVIDE MINIMUM NECESSARY WORK SPACE  
IF LESS THAN 5'-0" THEN ADD BOARDS STRAPPED TO TRUNK.

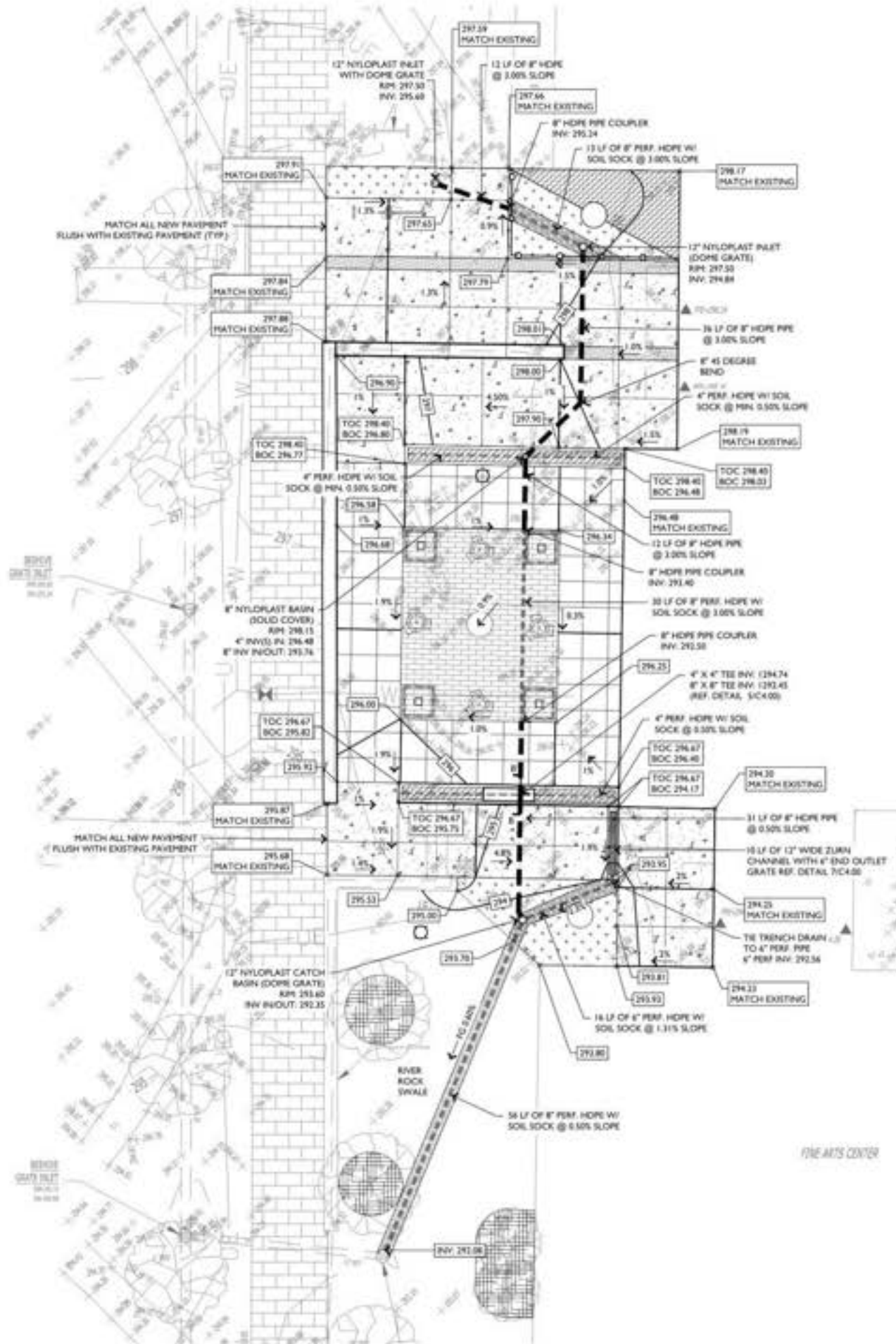
## SCALE: 1" = 10' 0"

|                 |  |                           |
|-----------------|--|---------------------------|
| ESG PROJECT NO: |  | 18-005                    |
| DATE:           |  | 2022-04-07                |
| REVISIONS       |  |                           |
| Revise          |  | Rev.                      |
|                 |  |                           |
|                 |  |                           |
| PHASE           |  | 100% Construction Drawing |
| TITLE           |  | Site and Layout Plan      |
| SHEET NO:       |  | C1.00                     |

SCALE: 1" = 100'-0"

# STREET CONSTRUCTION (GRADING) AND EARTHWORK NOTES

1. THE ENGINEER SHALL BE NOTIFIED 24 HOURS PRIOR TO PLACEMENT OF ANY FILL MATERIAL, INSTALLATION OF STORM DRAINAGE PIPE, DRAINAGE STRUCTURES, CURB AND GUTTER, OR PLACEMENT OF CRUSHED STONE OR ASPHALT.
2. CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT PERFORM EARTHWORK IN ACCORDANCE WITH THE RECOMMENDATIONS IN SAID REPORT.
3. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER TO INSPECT THE SUBGRADE PRIOR TO PLACING FILL.
4. FILL AND BACKFILL SHALL BE PLACED IN HORIZONTAL, NOMINAL 6- TO 8-IN THICK LOOSE LIFTS. EACH LIFT SHALL BE TESTED AND APPROVED PRIOR TO PLACING SUBSEQUENT LIFTS.
5. THE SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND SECTION 113 OF THE ARKANSAS STATE HIGHWAY DEPARTMENT'S STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. PRIOR TO PLACING THE CRUSHED STONE BASE COURSE THE SUBGRADE SHALL BE PROOF ROLLED, AND MUST BE VERIFIED TO CONFORM TO THE GRADES AND SLOPES SHOWN ON THE DRAWINGS.
6. ALL MUD SOIL, AND LOOSE GRAVEL SHALL BE REMOVED FROM THE CRUSHED STONE BASE AND CONCRETE CURB PRIOR TO PLACEMENT OF ASPHALT.
7. THE CONTRACTOR SHALL PROVIDE APPROPRIATE ADVANCED WARNING DEVICES, BARRICADES, BARRELS, AND OTHER MEASURES AS NEEDED TO PROPERLY CONTROL AND ADVISE TRAFFIC OF CONSTRUCTION EQUIPMENT.
8. THE CONTRACTOR SHALL REPAIR ANY DAMAGE THE CONSTRUCTION ACTIVITY OR HAULING OF MATERIAL MAY HAVE ON THE EXISTING STREETS AND/OR ACCESS ROADS.
9. COORDINATE WORK WITH OWNER TO MINIMIZE THE EFFECTS OF CONSTRUCTION ON DAILY OPERATIONS OF THE FACILITY.
10. COORDINATE ALL DEMOLITION WORK WITH OWNER. VERIFY OWNER DOES NOT WISH TO RETAIN MATERIAL BEFORE IT IS REMOVED AND DISPOSED.
11. ALL CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE DESIGNATED AREAS SHOWN ON THE PLANS. ALL AREAS OUTSIDE OF THOSE LIMITS SHALL BE PROTECTED AND MAINTAINED.
12. GRADING SHALL BE LIMITED TO THE EXTENT OF THE PROPOSED CONTOURS AND SPOT GRADES SHOWN ON THE PLANS.
13. ALL CUT AND/OR FILL SLOPES SHALL BE A MAXIMUM 3H:1V SLOPE OR FLATTER UNLESS OTHERWISE NOTED.
14. ALL STORM DRAINAGE PIPE CONNECTIONS TO STRUCTURES SHALL BE GROUTED TO PROVIDE A WATERTIGHT CONNECTION AT THE STRUCTURE.
15. ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES INSTALLED IN PAVED AND TRAFFIC AREAS SHALL MEET HEAVY DUTY TRAFFIC (HDD) LOADING AND BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS FOR HDD LOADING.
16. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH THE PAVEMENT AND SHALL HAVE TRAFFIC BEARING RINGS AND COVERS.
17. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL OR STRUCTURAL ENGINEERING PLANS AND SPECIFICATIONS.
18. MAXIMUM 2% SLOPE ON ANY SIDEWALK. REFER TO SPOT ELEVATIONS ON PLAN.



## GRADING & DRAINAGE LEGEND

- CATCH BASIN
- SOLID HDPE PIPE
- PERFORATED HDPE PIPE W/ SOIL SOCK
- UNDERDRAIN
- UNDERDRAIN W/ TURF COVER
- FLOW ARROW
- CONTOUR ELEVATION LABEL
- SPOT GRADE ELEVATION

E D G

Ecological Design Group, Inc.  
www.ecologicaldesign.com  
PHONE: 501.278.0200  
FAX: 501.278.0200

811

Know what's below.  
Call before you dig.

ASTATE - FINE ARTS PLAZA  
Jonesboro, Arkansas

|                 |            |
|-----------------|------------|
| EDG PROJECT NO. | 19-055     |
| DATE            | 05/02/2019 |
| REVISIONS       |            |
| Rev.            | Rev.       |
|                 |            |
|                 |            |
|                 |            |
|                 |            |
|                 |            |
|                 |            |
|                 |            |

PHASE 100% Construction Drawings

TITLE Grading & Drainage Plan

SHEET NO. C2.00

1 GRADING & DRAINAGE PLAN

SCALE: 1" = 10'-0"



# GENERAL EROSION CONTROL NOTES

1. SITE CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MONITORING, AND MAINTAINING ALL EROSION & SEDIMENT CONTROL BMPs.
2. SITE CONTRACTOR IS RESPONSIBLE TO KEEP AND UPDATE ALL STORM EVENT LOG BOOKS.
3. THE CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PLAN TO PREVENT MUD, SEDIMENT, AND CONSTRUCTION MATERIALS FROM BEING WASHED OR TRACKED OFF SITE ONTO ADJACENT PROPERTY. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE APPROVED ADEQ CONSTRUCTION STORMWATER PERMIT AND MAINTAIN THE STORMWATER POLLUTION PREVENTION PLAN AT ALL TIMES.
4. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPOSED OF THIS DRAWING (SITE MAP), THE EROSION CONTROL DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE TEMPORARY EROSION CONTROL SECTION OF THE SPECIFICATIONS, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
5. EROSION CONTROL DEVICES SHALL BE INSTALLED AS THE PROJECT PROGRESSES AND AREAS ARE DISTURBED.
6. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
7. BEST MANAGEMENT PRACTICES AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, AND OR LOCAL MANUAL OF PRACTICE, AND THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECT BY THE PERMITTING AGENCY OR OWNER.
8. THIS EROSION CONTROL PLAN MAY BE REVISED BY ADDING OR DELETING EROSION CONTROL DEVICES AS DIRECTED BY THE ENGINEER.
9. THE LOCATIONS OF THESE EROSION CONTROL DEVICES MAY BE CHANGED IF SITE CONDITIONS WARRANT TO PREVENT EROSION.
10. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE AND EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
11. ALL INLETS ON AND ADJACENT TO THE SITE SHALL BE PROTECTED FROM SEDIMENT.
12. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN UP FUEL OR CHEMICAL SPILLS AND LEAKS.
13. PERFORM EQUIPMENT AND VEHICLE MAINTENANCE ONLY IN DESIGNATED AREAS. USE DRIP PANS UNDER EQUIPMENT.
14. INSPECT ALL EROSION CONTROL DEVICES WEEKLY AND FLOWING RAINFALL EVENTS OF 0.5 INCHES THROUGHOUT THE DURATION OF THIS PROJECT AND UNTIL PERMANENT VEGETATION IS ESTABLISHED.
15. ALL DISTURBED AREAS LEFT IDLE FOR A PERIOD OF 14 DAYS OR LONGER ARE TO RECEIVE TEMPORARY VEGETATION AND MULCHING.
16. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND/OR OTHER PETROLEUM-BASED, OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATION IS PROHIBITED.
17. SOLID WASTE (INCLUDING TRASH AND DEBRIS) MUST BE DISPOSED OF PROPERLY, AND HAZARDOUS MATERIALS (INCLUDING OIL, GASOLINE, AND PAINT) MUST BE PROPERLY STORED (WHICH INCLUDES SECONDARY CONTAINMENT), PROPERLY MANAGE PORTABLE SANITARY FACILITIES.
18. USE DRY CLEANUP METHODS TO COLLECT LITTER AND ABSORB ANY LIQUID WASTES PRIOR TO ANY PRESSURE WASHING. THESE INCLUDE USING ABSORBENTS (RAGS, SAND, ETC.), SWEEPING, AND SCRAPPING OFF DRIED DEBRIS.
19. RUBBISH, TRASH, GARBAGE, OR LITTER SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM BEING BLOWN OR WASHED OFF-SITE.
20. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCE/EXIT IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES EXIT ONTO THE PUBLIC ROADS. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF SITE.
21. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
22. ON-SITE AND OFF-SITE STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH ADEQ CONSTRUCTION STORMWATER PERMIT.
23. ALL MATERIALS MUST BE STORED OUT OF THE WAY OF VEHICULAR TRAFFIC.
24. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
25. EROSION CONTROL FACILITIES REQUIRED BY THESE PLANS AND/OR THE FACILITY PERMIT ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL FACILITIES AS NECESSARY.
26. REMOVE EROSION CONTROL DEVICES AFTER PERMANENT VEGETATION IS ESTABLISHED.

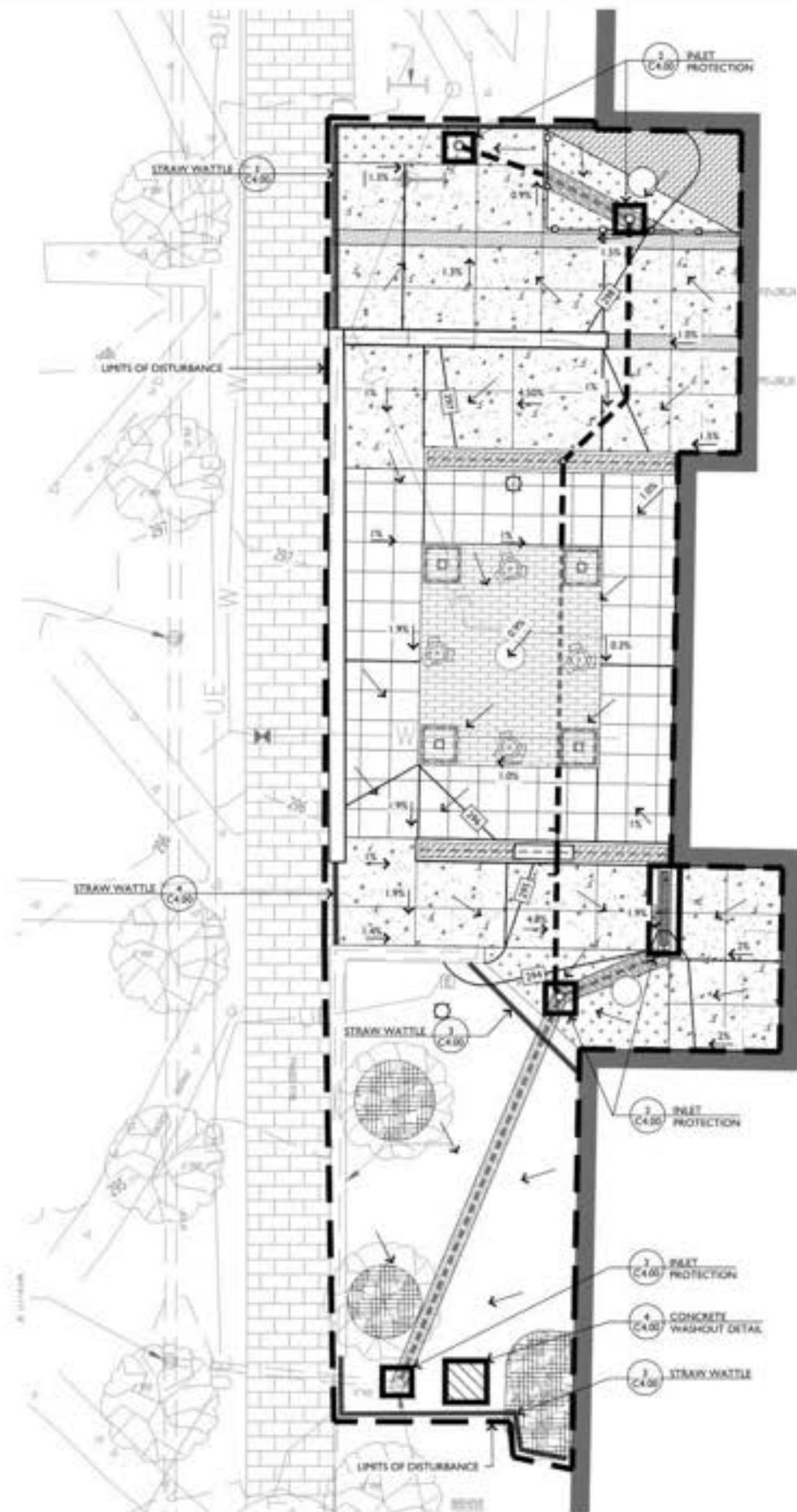
## ADDITIONAL EROSION CONTROL NOTES

### INITIAL SITE PREPARATION

1. INSTALL STABILIZED CONSTRUCTION ENTRANCES/EXITS.
2. SITE CONTRACTOR SHALL SUBMIT TO ENGINEER FOR APPROVAL A SITE MAP SHOWING THE PROPOSED LOCATIONS OF THE FOLLOWING: TRAILER, PARKING, LAY DOWN, PORTA/POTTY, WHEEL WASH, CONCRETE WASH-OUT, MASON'S AREA, FUEL AND MATERIAL STORAGE, CONTAINERS, SOLID WASTE CONTAINERS, ETC.. DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES RE THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
3. CONSTRUCT THE Silt FENCES ON THE SITE AS INDICATED ON THE PLANS.
4. CONSTRUCT THE SEDIMENTATION AND SEDIMENT TRAP BASIN.
5. CONTACT THE ENGINEER TO PERFORM INSPECTION OF THE BMPs. SITE CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND DISTURBING SUB-CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
6. CLEAR AND GRUB THE SITE WITHIN THE LIMITS OF WORK SHOWN ON THE PLANS.
7. CONTRACTOR SHALL BEGIN GRADING THE SITE AND BEGIN CONSTRUCTION.

### DURING CONSTRUCTION

1. TEMPORARILY SEED DISTURBED AREAS.
2. INSTALL WALET PROTECTION AROUND ALL NEWLY CONSTRUCTED STORM SEWER STRUCTURES.
3. AFTER PAVING, INSTALL INLET PROTECTION DEVICES.
4. AT THE COMPLETION OF GRADING INSTALL PERMANENT SEEDING AND PLANTINGS.
5. ONCE SITE IS STABILIZED, THE CONTRACTOR CAN REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
6. ON ANY AS-NEEDED BASIS OR AS DIRECTED BY THE CITY OR OWNER, THE CONTRACTOR SHALL CONTROL EROSION BY EXPOSING THE SOIL SURFACE TO MOISTURE PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.



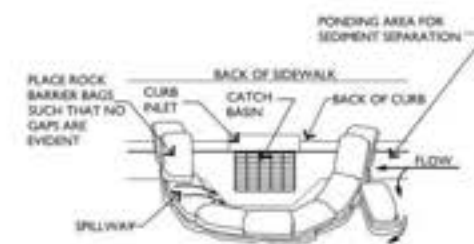
1 EROSION CONTROL PLAN

### NOTES

1. BAGS OF WOVEN GEOTEXTILE FABRIC, FILLED WITH GRAVEL, MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
2. LEAVE ONE SANDBAG GAP IN THE TOP ROW ON THE SIDE AWAY FROM FLOW, TO PROVIDE A SPILLWAY, OR IN THE CENTER IF PONDING IS NEEDED ON BOTH SIDES.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

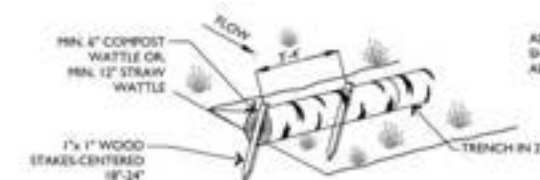
2 INLET PROTECTION

SCALE: N.T.S.



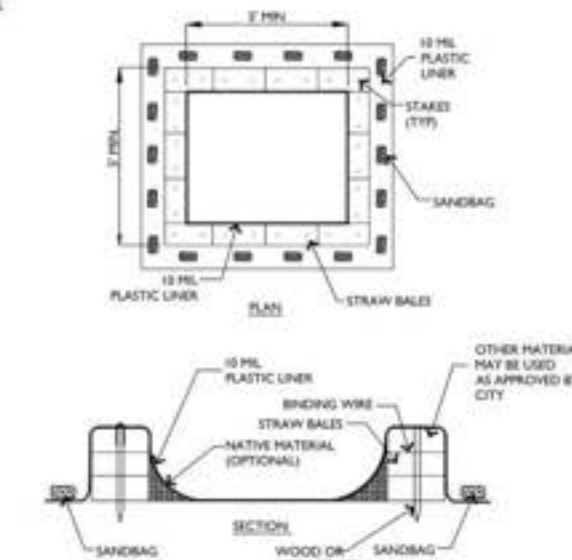
3 STRAW WATTLE

SCALE: N.T.S.



### INSTALLATION NOTES

1. WATTLES SHALL CONSIST OF STRAW, COMPOST, EXCELISOR, OR COCONUT FIBER.
2. NOT FOR USE IN CONCENTRATED FLOW AREAS.
3. THE WATTLES SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF TWO (2) INCHES.
4. WATTLES SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
5. ON SLOPES, WATTLES SHOULD BE INSTALLED ON CONTOUR WITH A SLIGHT UPWARD CURVE AT THE END OF THE ROW IN ORDER TO CREATE PONDING.
6. RUNNING LENGTHS OF WATTLES SHOULD BE ABUTTED FIRMLY TO ENSURE NO LEAKAGE AT THE ABUTMENTS.
7. WHEN INSTALLING, RUNNING LENGTHS OF WATTLES, BUTT THE SECOND WATTLE TIGHTLY AGAINST THE FIRST. DO NOT OVERLAP THE ENDS. STAKE THE WATTLES AT EACH END AND FOUR FEET ON CENTER.
8. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE, LEAVING 2 - 3 INCHES OF THE STAKE PROTRUDING ABOVE THE WATTLE. WHEN INSTALLING WATTLES ON SLOPES, DRIVE THE STAKES PERPENDICULAR TO THE SLOPE.
9. DRIVE THE FIRST END STAKE OF THE SECOND WATTLE AT AN ANGLE TOWARD THE FIRST WATTLE IN ORDER TO HELP ABUT THEM TIGHTLY TOGETHER.
10. STAKING: THE CITY RECOMMENDS USING WOOD STAKES TO SECURE THE WATTLES. 1/2" TO 3/4" REBAR IS ALSO ACCEPTABLE WITH A SAFETY CAP. BE SURE TO USE A STAKE THAT IS LONG ENOUGH TO PROTRUDE SEVERAL INCHES ABOVE THE WATTLE.
11. THE CONTRACTOR SHALL INSPECT WATTLES EVERY TWO WEEKS AND AFTER ANY SIGNIFICANT STORM EVENT AND MAKE REPAIRS OR REMOVE SEDIMENT ACCUMULATED BEHIND WATTLE AS NECESSARY.
12. SEDIMENT ACCUMULATED BEHIND WATTLE SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DIAMETER OF THE WATTLE.
13. WATTLES SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND IS ACCEPTED BY THE CITY.

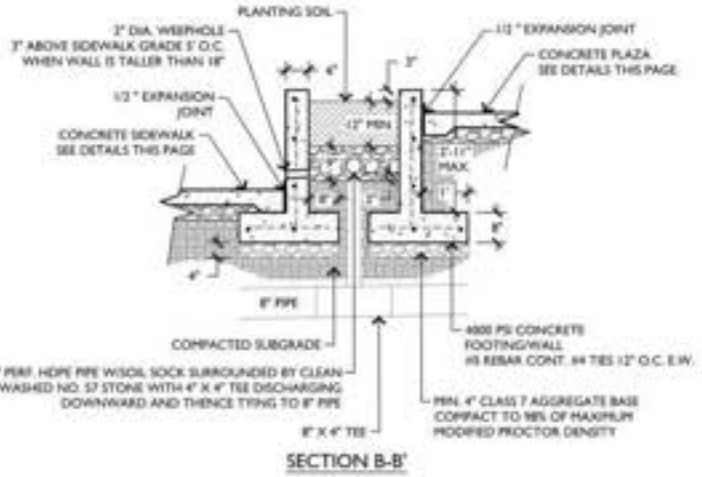
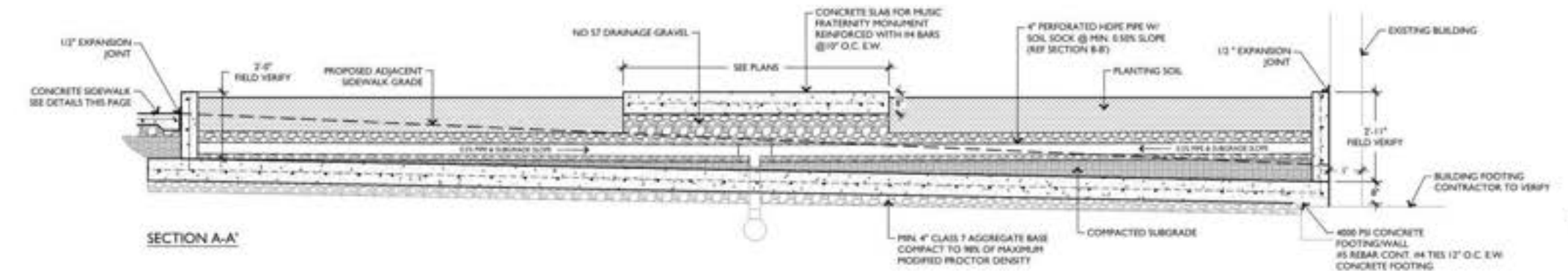
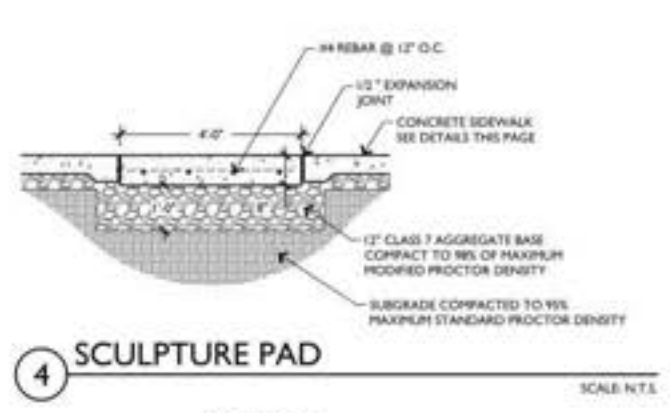
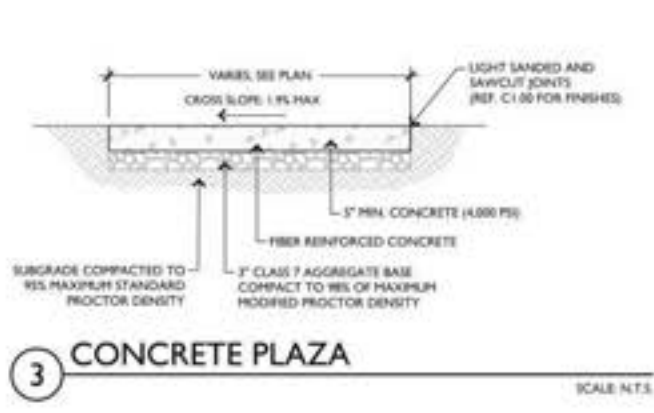
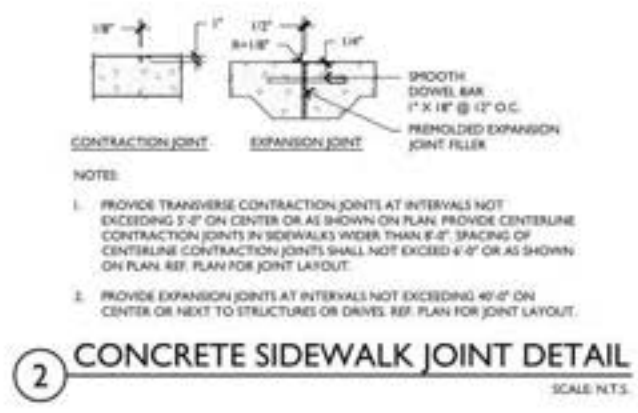
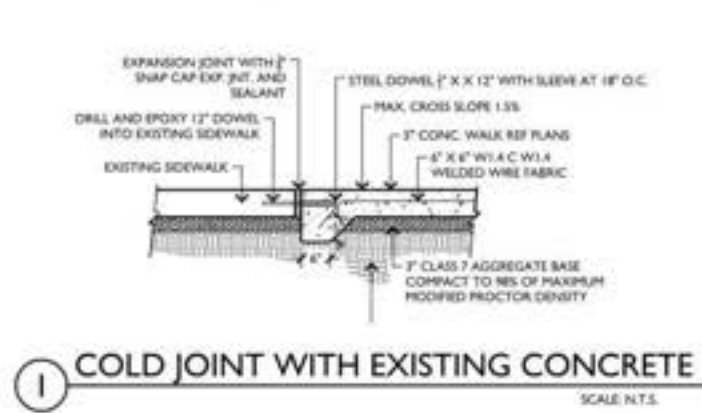


### WASHOUT NOTES

1. NO WASHING OUT OF CONCRETE TRUCKS OR WASHING OF SHREPPERS FROM EXPOSED AGGREGATE CONCRETE INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS IS ALLOWED.
2. EXCESS CONCRETE IS NOT ALLOWED TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED TEMPORARY CONCRETE WASHOUT PIT AREAS.
3. ON-SITE TEMPORARY CONCRETE WASHOUT AREAS WILL BE LOCATED AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES AS DETERMINED IN THE FIELD.
4. TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
5. WASHOUT FACILITIES WILL BE CLEANED OUT OR REPLACED ONCE THE WASHOUT IS 75% FULL.
6. PLASTIC LINING MATERIAL WILL BE MINIMUM OF 15 MIL POLYETHYLENE SHEETING AND WILL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS.
7. WHEN WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR WORK, THE HARDENED CONCRETE WILL BE REMOVED AND DISPOSED OF OFF-SITE. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE REMOVED FROM THE SITE AND DISPOSED OF.

4 CONCRETE WASHOUT DETAIL

SCALE: N.T.S.



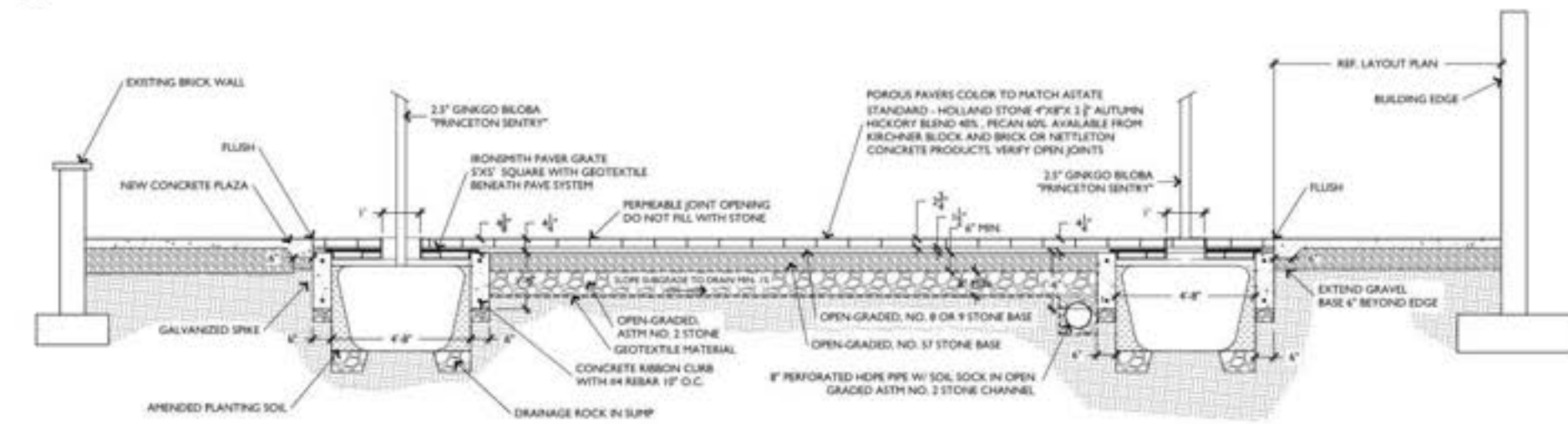
1 COLD JOINT WITH EXISTING CONCRETE  
SCALE: N.T.S.

2 CONCRETE SIDEWALK JOINT DETAIL  
SCALE: N.T.S.

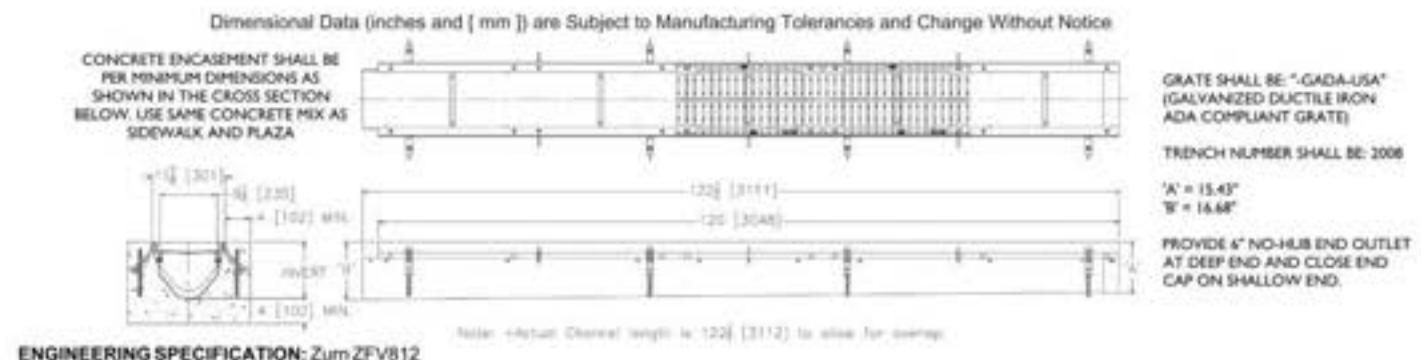
3 CONCRETE PLAZA  
SCALE: N.T.S.

4 SCULPTURE PAD  
SCALE: N.T.S.

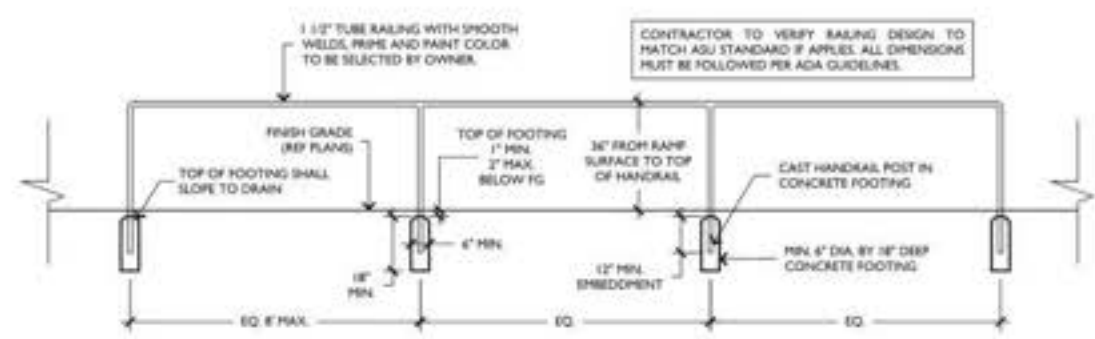
5 PLANTER WITH CONCRETE CURB SECTION  
SCALE: N.T.S.



6 PAVER AND TREE GRATE SECTION  
SCALE: N.T.S.



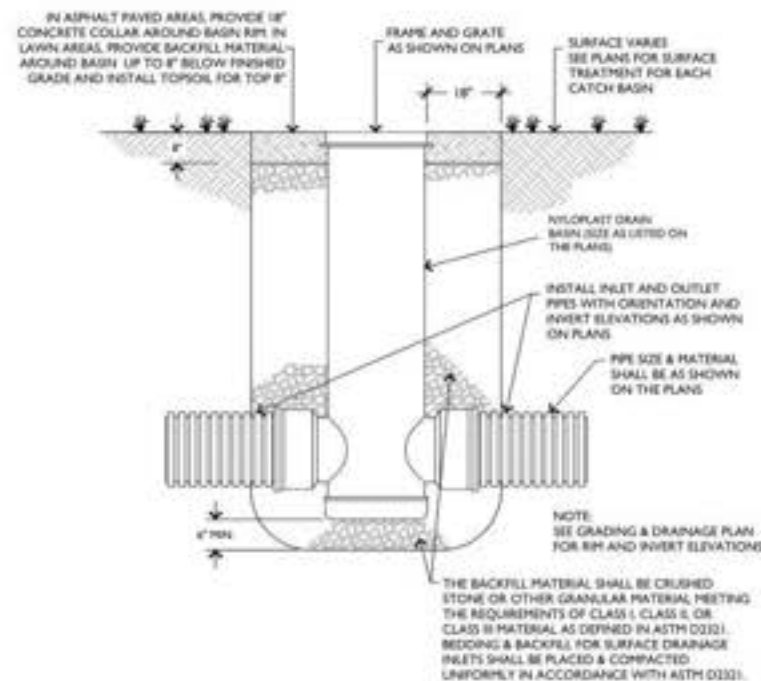
7 CHANNEL GRATE - ZURN MODEL ZFV812  
SCALE: N.T.S.



8 HANDRAIL (MATCH ASU STANDARDS)  
SCALE: N.T.S.

**ASTATE - FINE ARTS PLAZA**  
Jonesboro, Arkansas

|                 |                            |
|-----------------|----------------------------|
| EDG PROJECT NO. | 19-055                     |
| DATE            | 2022.04.01                 |
| REVISIONS       |                            |
| PHASE           | 100% Construction Drawings |
| TITLE           | Site Details               |
| SHEET NO.       | C4.00                      |

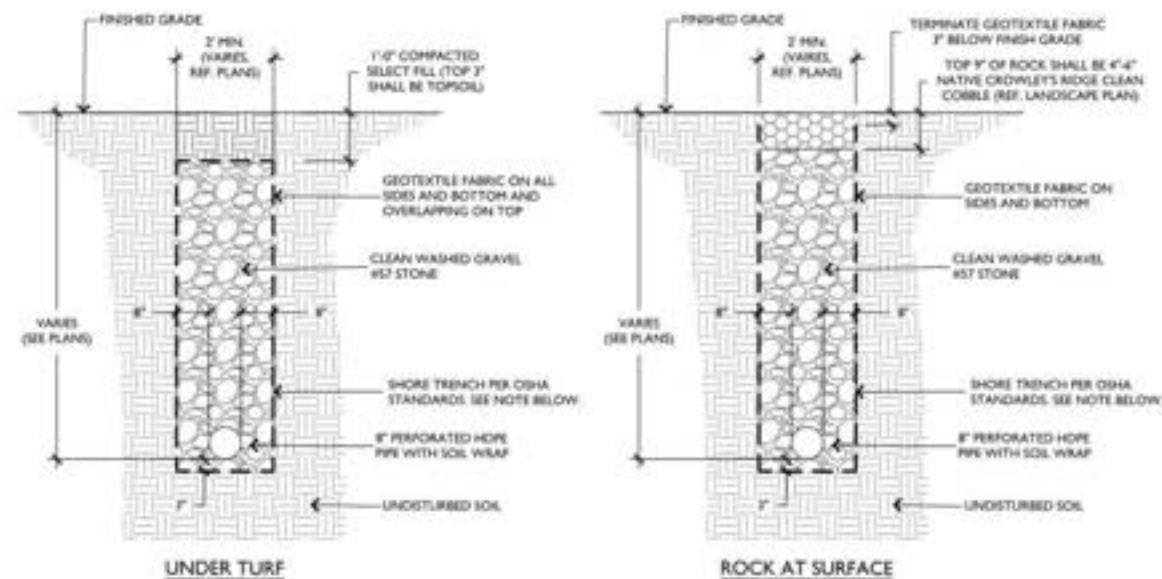
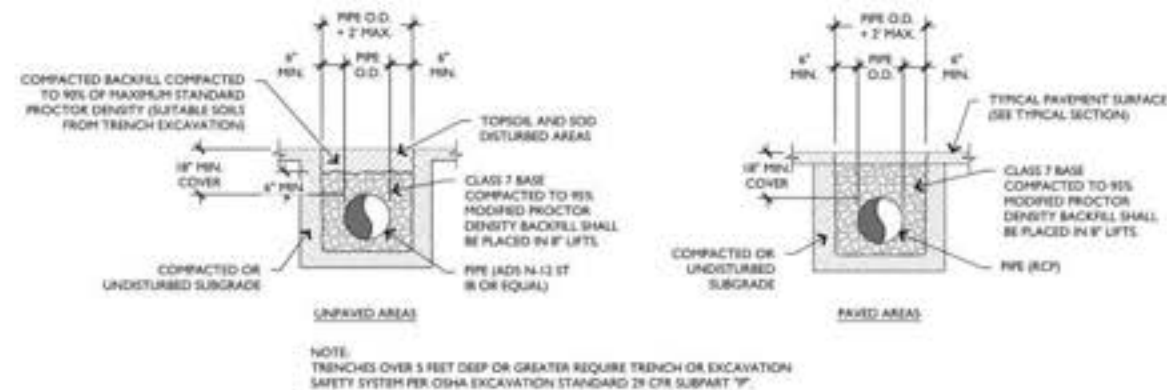


**1 NYLOPLAST CATCH BASIN**

SCALE: N.T.S.

**2 STORM PIPE BEDDING & BACKFILL**

SCALE: N.T.S.



**3 GRAVEL TRENCH UNDERDRAIN**

SCALE: N.T.S.

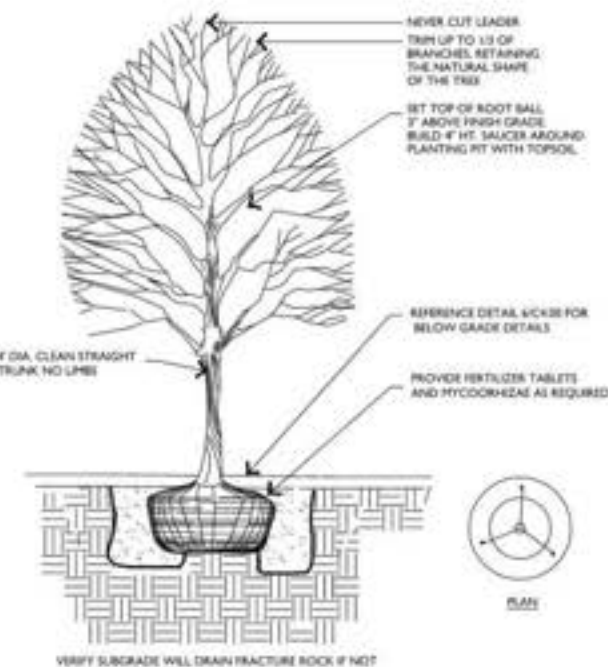
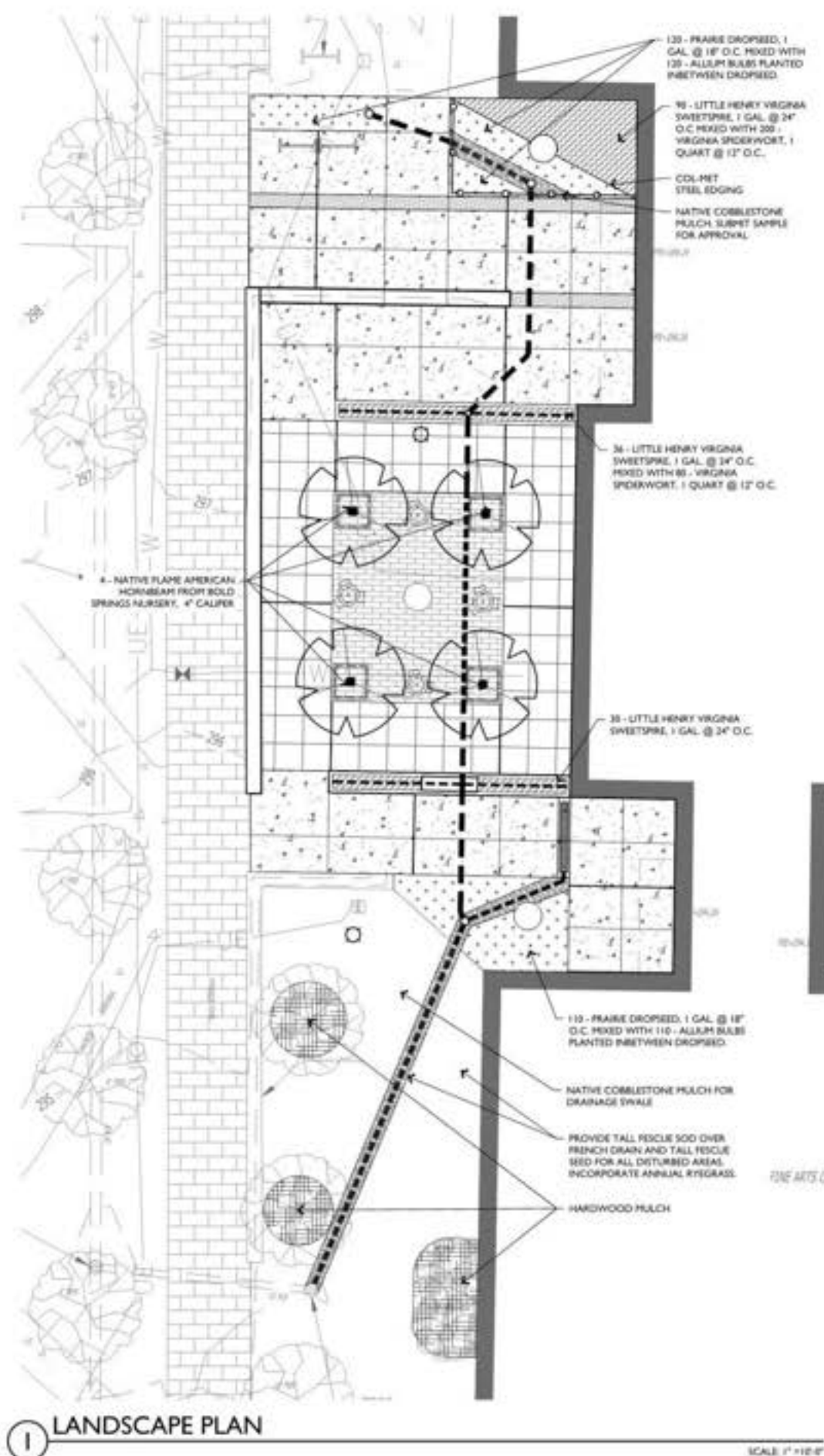


**ASTATE - FINE ARTS PLAZA**  
Jonesboro, Arkansas

|                 |                            |
|-----------------|----------------------------|
| EDG PROJECT NO. | 19-055                     |
| DATE            | 05/02/2019                 |
| REVISIONS       |                            |
| NO.             | DATE                       |
| 1               |                            |
| 2               |                            |
| 3               |                            |
| 4               |                            |
| 5               |                            |
| 6               |                            |
| 7               |                            |
| 8               |                            |
| 9               |                            |
| 10              |                            |
| PHASE           | 100% Construction Drawings |
| TITLE           | Site Details               |
| SHEET NO.       | C4.01                      |

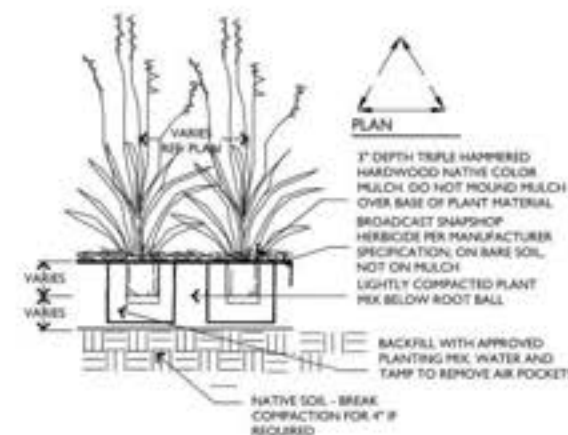
# LANDSCAPE NOTES

1. CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO STARTING ANY WORK. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ARKANSAS ONE-CALL TO CONFIRM ALL UTILITIES.
2. ALL PLANTS MUST BE HEALTHY, VIGOROUS AND FREE OF PESTS AND DISEASE.
3. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
4. ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED ON THE PLANT LIST.
5. ALL REQUIRED TREES SHALL BE 2.5" MINIMUM CALIPER, 3" ORNAMENTAL MINIMUM WITH A SINGLE DOMINANT CENTRAL LEADER. MULTI-LEADERED TREES WILL NOT BE ACCEPTABLE WITHOUT PRIOR APPROVAL FROM URBAN FORESTRY.
6. ALL TREES MUST BE STRAIGHT TRUNKED AND FULL HEADED, UNLESS SPECIFIED OTHERWISE, AND MUST MEET ALL REQUIREMENTS SPECIFIED ON PLANS.
7. ALL TREES AND SHRUBS SHALL BE INSTALLED PER STANDARD CITY OF JONESBORO AND/OR ASTATE STANDARD PLANTING DETAILS.
8. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER CONSTRUCTION.
9. ALL PLANTING AREAS MUST BE COMPLETELY MULCHED WITH A 4" LAYER OF ORGANIC HARDWOOD MULCH. MULCH SHALL NOT BE PLACED IMMEDIATELY ADJACENT TO TREE TRUNKS, BUT SHALL BE KEPT AT LEAST 3" FROM ROOT COLLAR AT THE SOIL LINE.
10. ALL PLANTING BEDS SHALL BE CONTAINED BY EDGING MATERIAL, OTHER THAN VEGETATION.
11. TREES SHALL NOT BE TOPPED AT ANY TIME AND PROPER TREE PRUNING TECHNIQUES AS ESTABLISHED BY THE LATEST EDITION OF ANSI A300 "STANDARDS FOR TREE CARE" SHALL BE UTILIZED FOR MAINTENANCE PURPOSES.
12. HEALTHY TREES SHALL NOT BE REMOVED AT ANY TIME AND PROPER TREE PRUNING TECHNIQUES AS ESTABLISHED BY THE LATEST EDITION OF THE ANSI A300 "STANDARDS FOR TREE CARE" SHALL BE UTILIZED FOR MAINTENANCE PURPOSES.
13. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION AT NO COST TO THE OWNER.
14. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
15. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING MATERIAL (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) IN ALL PLANTING AREAS AND LAWN AREAS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE OWNER.
16. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF TWO (2) YEARS BEGINNING ON THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
17. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFLUATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
18. ONCE INSTALLED, LANDSCAPING SHALL BE MAINTAINED IN HEALTHY LIVING CONDITION AND ALL PLANT MATERIAL THAT DIES SHALL BE REPLACED.
19. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING, LOCATE ALL UTILITIES AND SITE LIGHTING CONDUITS BEFORE CONSTRUCTION BEGINS.
20. IRRIGATION SHALL BE EITHER AN UNDERGROUND AUTOMATIC SYSTEM, SUBMIT DRAWINGS FOR APPROVAL. REFERENCE ADDITIONAL IRRIGATION NOTES AND SPECIFICATIONS FOR MORE INFORMATION.
21. MAINTENANCE: THE CURRENT OWNER OF THE PROPERTY SHALL BE RESPONSIBLE FOR THE ONGOING MAINTENANCE OF REQUIRED LANDSCAPING.
22. LIVING MATERIAL, SUCH AS LAWN, GRASS OR HERBACEOUS GROUNDCOVERS LIKE JAMPER OR UNIQWE, ETC., SHALL COVER MINIMUM OF EIGHTY PERCENT OF THE PLANTING ISLANDS. ONE HUNDRED PERCENT OF LIVING MATERIALS IS STRONGLY ENCOURAGED.



## 2 TREE PLANTING

SCALE: N.T.S.



## 3 NATIVE GRASS PLANTING

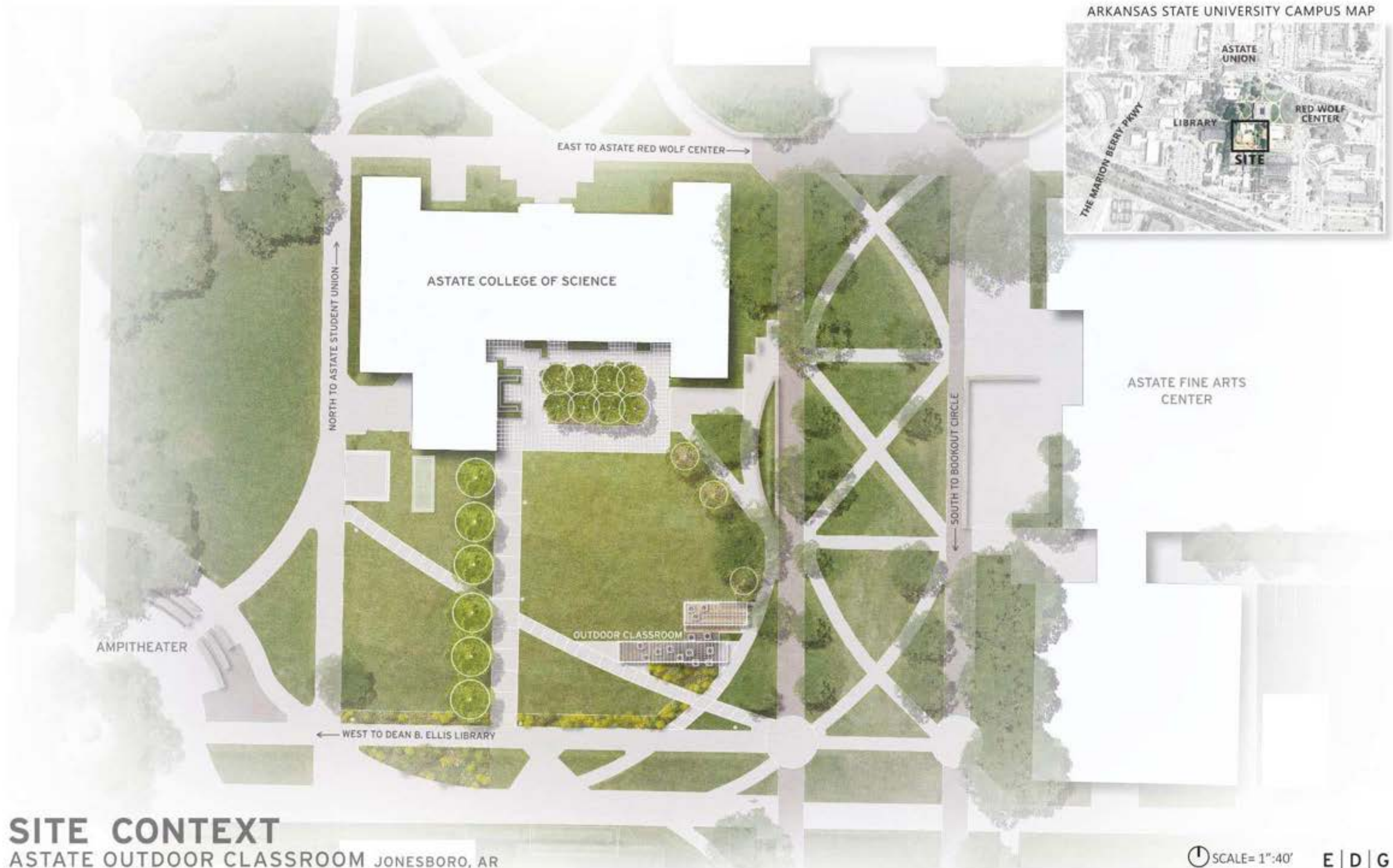
SCALE: N.T.S.

| PLANT LIST                                                                        |                                  |                                                                                                           |           |                       |  |
|-----------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------|-----------|-----------------------|--|
| All plant counts on the plans and numbers to be verified by landscape contractor. |                                  |                                                                                                           |           |                       |  |
| Trees                                                                             |                                  |                                                                                                           |           |                       |  |
| QTY:                                                                              | COMMON NAME                      | SCIENTIFIC NAME                                                                                           | SPACING   | SIZE                  |  |
| 4                                                                                 | Native Flame American Hornbush   | Carpinus caroliniana 'FIREWORKS'                                                                          | Ref. Plan | 4" CAL. Min. 12" Tall |  |
| Groundcover/grasses/perennials                                                    |                                  |                                                                                                           |           |                       |  |
| 120                                                                               | Allum Bulb                       | Allium                                                                                                    | 18" o.c.  | 1 gallon              |  |
| 120                                                                               | Prairie Dropsid                  | Sporobolus heterophyllus                                                                                  | 18" o.c.  | 1 gallon              |  |
| 90                                                                                | Little Henry Virginia Sweetspice | Desmodium illinoense                                                                                      | 24" o.c.  | 1 gallon              |  |
| 200                                                                               | Virginia Spiderwort              | Tradescantia virginiana                                                                                   | 12" o.c.  | 1 quart               |  |
| Soils                                                                             |                                  |                                                                                                           |           |                       |  |
| Ref. Plan                                                                         | Native Cobblestone               | 4" x 4" native river cobble                                                                               | Ref. Plan | 4" DEEP               |  |
| Turf                                                                              |                                  |                                                                                                           |           |                       |  |
| 160 sq. ft.                                                                       | Tall Fescue Sod                  | Solid, weed free sod with root branch down                                                                | Ref. Plan |                       |  |
| Ref. Plan                                                                         | Tall Fescue Seed                 | Seed of all disturbed areas                                                                               | Ref. Plan |                       |  |
| Planting Details                                                                  |                                  |                                                                                                           |           |                       |  |
| Ref. Plan                                                                         | Planting Pit                     | 18" x 18" x 18" deep with 12" of 1/2" organic compost mix existing with to a depth of 12"                 |           |                       |  |
| Ref. Plan                                                                         | Steel Edging                     | 160 lbs. 14"x4"                                                                                           |           |                       |  |
| Ref. Plan                                                                         | Hardwood Mulch                   | Triple Hammered Hardwood mulch, 4" deep, 4" depth at planting hole and 12" decrease amount existing trees |           |                       |  |

ARKANSAS STATE UNIVERSITY  
OUTDOOR CLASSROOM

JONESBORO, AR

E | D | G



# SITE CONTEXT

ASTATE OUTDOOR CLASSROOM JONESBORO, AR

⌚ SCALE= 1"=40'

E | D | G



## PROGRAM

- 1 EXISTING PLAZA
- 2 EXISTING TREES
- 3 PROPOSED CONCRETE PLAZA
- 4 PROPOSED OUTDOOR CLASSROOM BRIDGE WITH SHADE PAVILION
- 5 COMPOSITE DECK WITH GROUPED BISTRO TABLES
- 6 PLANTED POLLINATOR GARDEN
- 7 PROPOSED CRUSHED STONE SEATING AREA WITH SHADE PAVILION
- 8 EXISTING ELEVATED SIDEWALK FOR STORMWATER

## SITE PLAN

ASTATE OUTDOOR CLASSROOM JONESBORO, AR

SCALE= 1"=20' E | D | G



## PRECEDENT IMAGERY

ASTATE OUTDOOR CLASSROOM JONESBORO, AR

E | D | G