

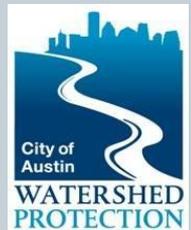
Eliza Spring Outlet Daylighting Project – 60% Design



LIZA COLUCCI, ENVIRONMENTAL SCIENTIST

CITY OF AUSTIN

WATERSHED PROTECTION DEPARTMENT



Federally Endangered Salamanders



Barton Springs
Salamander

Eurycea sosorum



2008 Laurie Dries

Austin Blind
Salamander

Eurycea waterlooensis



2013 Tom Devitt

HCP – USFWS 10(a)1(B) permit



- Allows the City of Austin to keep Barton Springs Pool open for recreation despite it being endangered species habitat
- 20 yr permit
- MOU between PARD and WPD
- Includes Take of individuals
- Conservation measures
 - Improve flow regimes
 - Maintain ecosystem health
 - Re-vegetate
 - Remove concrete

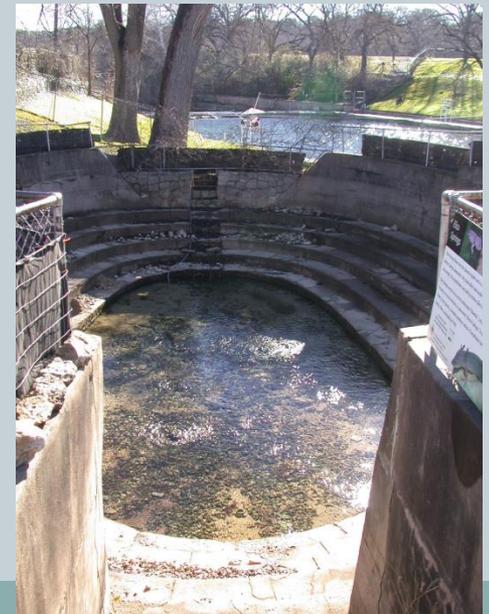
Eliza Spring Modifications



- Eliza Spring
 - Amphitheater built
 - Outflow buried
 - Concrete floor
 - Salamander habitat



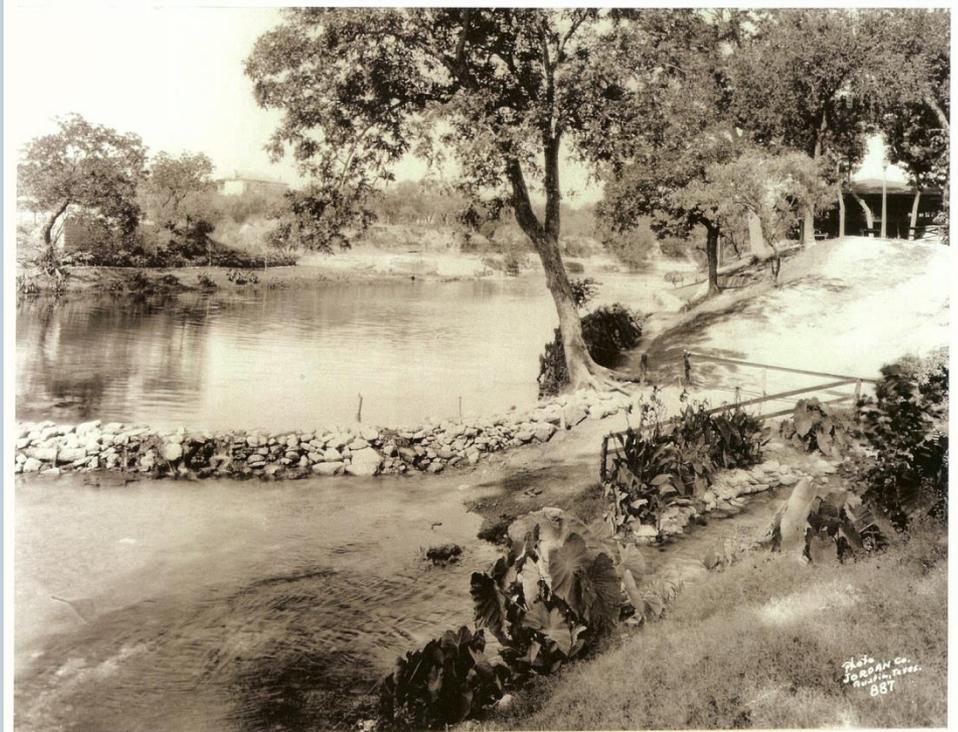
PCCA 0987, Austin History Center, Austin Public Library



Eliza Spring – Flowing Water



PICA 00987, Austin History Center, Austin Public Library



Barton Springs, circa 1924. Note the man-made dam that had to be rebuilt each season to create deep water for swimming.

[AUSTIN HISTORY CENTER – CO 1803]

Eliza Daylighting – Keyhole Opening



Austin History Center, Austin Public Library

60% Major Design Concepts

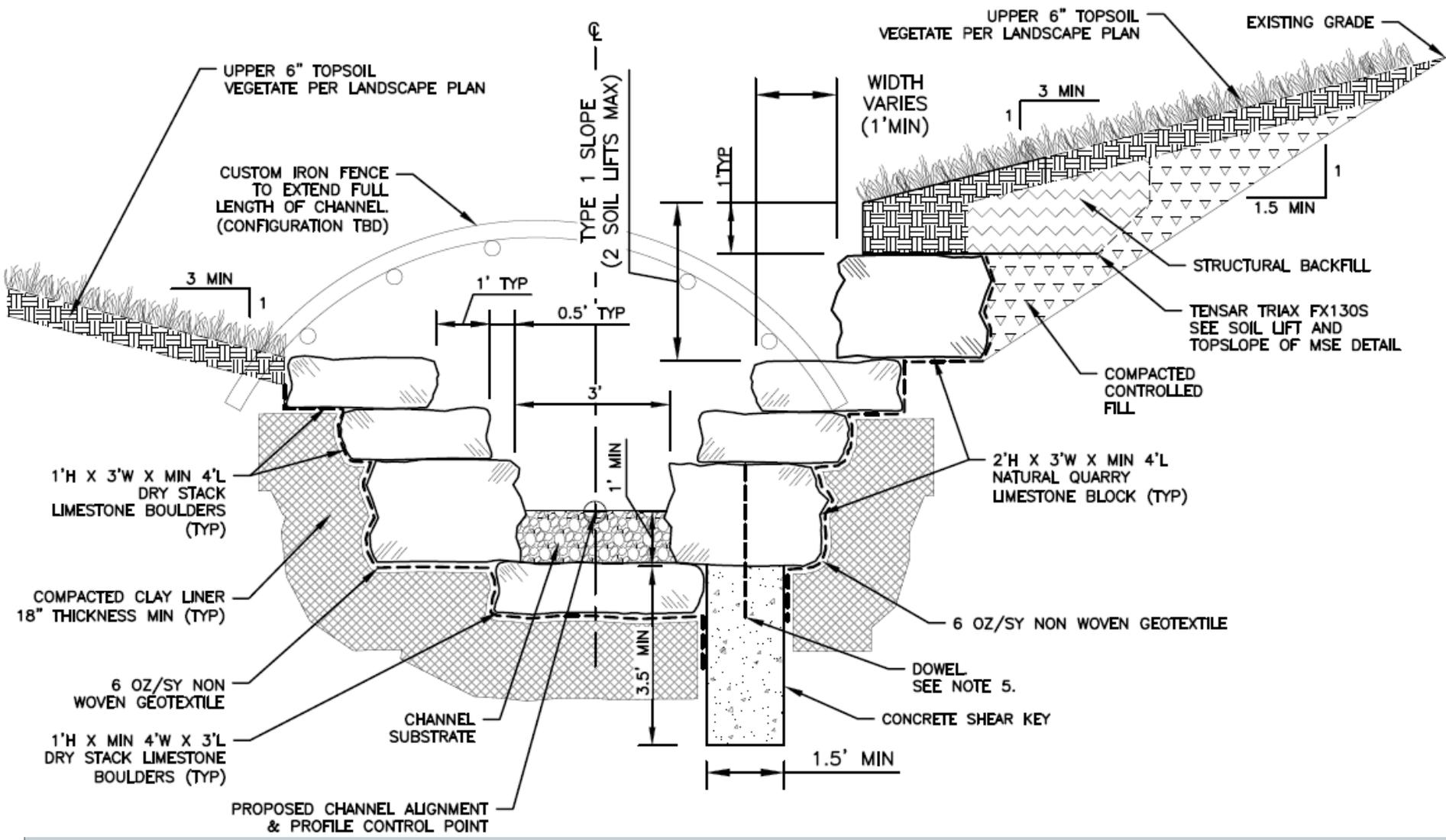


- Grading of banks
- Native plantings
- Fence relocation
- Existing storm drain redirection

60% Major Design Concepts



- **Grading of banks**
- Native plantings
- Fence relocation
- Existing storm drain redirection



1/4" MIN THICK
DRY STACK LIMESTONE
BOULDERS (TYP)

PROPOSED CHANNEL ALIGNMENT
& PROFILE CONTROL POINT

1.5' MIN



TYPICAL SECTION W/ TYPE 1 SLOPE SYSTEM NOT EXCEEDING 2 SOIL LIFTS

24" WIDE TOPSOIL ZONE

UPPER 6" TOPSOIL
VEGETATE PER LANDSCAPE PLAN

EXISTING GRADE

3 MIN

COMPACTED
CONTROLLED FILL

0.5' TYP

1' TYP

1' TYP

0.5' TYP

1.5 MIN

TENSAR TRIAX FX130S
SEE SOIL LIFT AND
TOPSLOPE OF MSE DETAIL

STRUCTURAL BACKFILL

6 OZ/SY NON WOVEN GEOTEXTILE

2'H X 3'W X MIN 4'L
NATURAL QUARRY
LIMESTONE BLOCK (TYP)

DOWEL
SEE NOTE 5.

UPPER 6" TOPSOIL
VEGETATE PER LANDSCAPE PLAN

CUSTOM IRON FENCE
TO EXTEND FULL
LENGTH OF CHANNEL.
(CONFIGURATION TBD)

3 MIN

TYPE 2 SLOPE
(3 SOIL LIFTS MAX)

WIDTH VARIES (7' MAX)

PROPOSED BENCH
WALL ALIGNMENT
& PROFILE
CONTROL POINT

1' TYP

0.5' TYP

3'

1' MIN

3.5' MIN

1.5' MIN

1'H X 3'W X MIN 4'L
DRY STACK LIMESTONE
BOULDERS (TYP)

COMPACTED CLAY LINER
18" THICKNESS MIN (TYP)

6 OZ/SY NON
WOVEN GEOTEXTILE

1'H X MIN 4'W X 3'L
DRY STACK LIMESTONE
BOULDERS (TYP)

PROPOSED CHANNEL ALIGNMENT
& PROFILE CONTROL POINT



TYPICAL SECTION W/ TYPE 2 SLOPE SYSTEM NOT EXCEEDING 3 SOIL LIFTS

1'H X 3'W X MIN 4'L
DRY STACK LIMESTONE
BOULDERS (TYP)

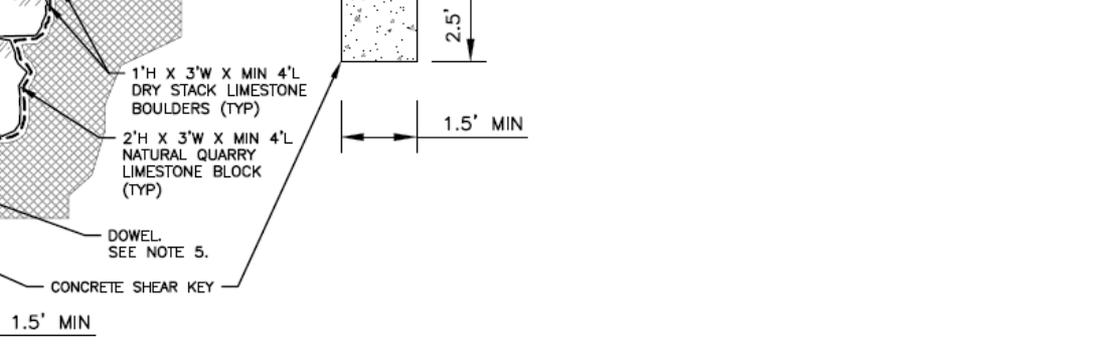
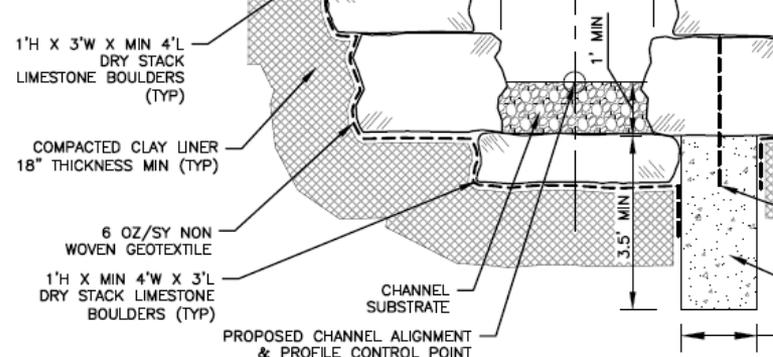
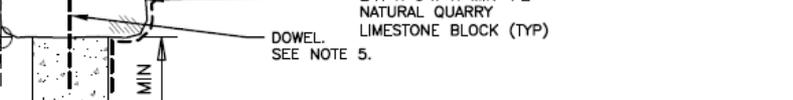
2'H X 3'W X MIN 4'L
NATURAL QUARRY
LIMESTONE BLOCK (TYP)

DOWEL
SEE NOTE 5.

CONCRETE SHEAR KEY

1.5' MIN

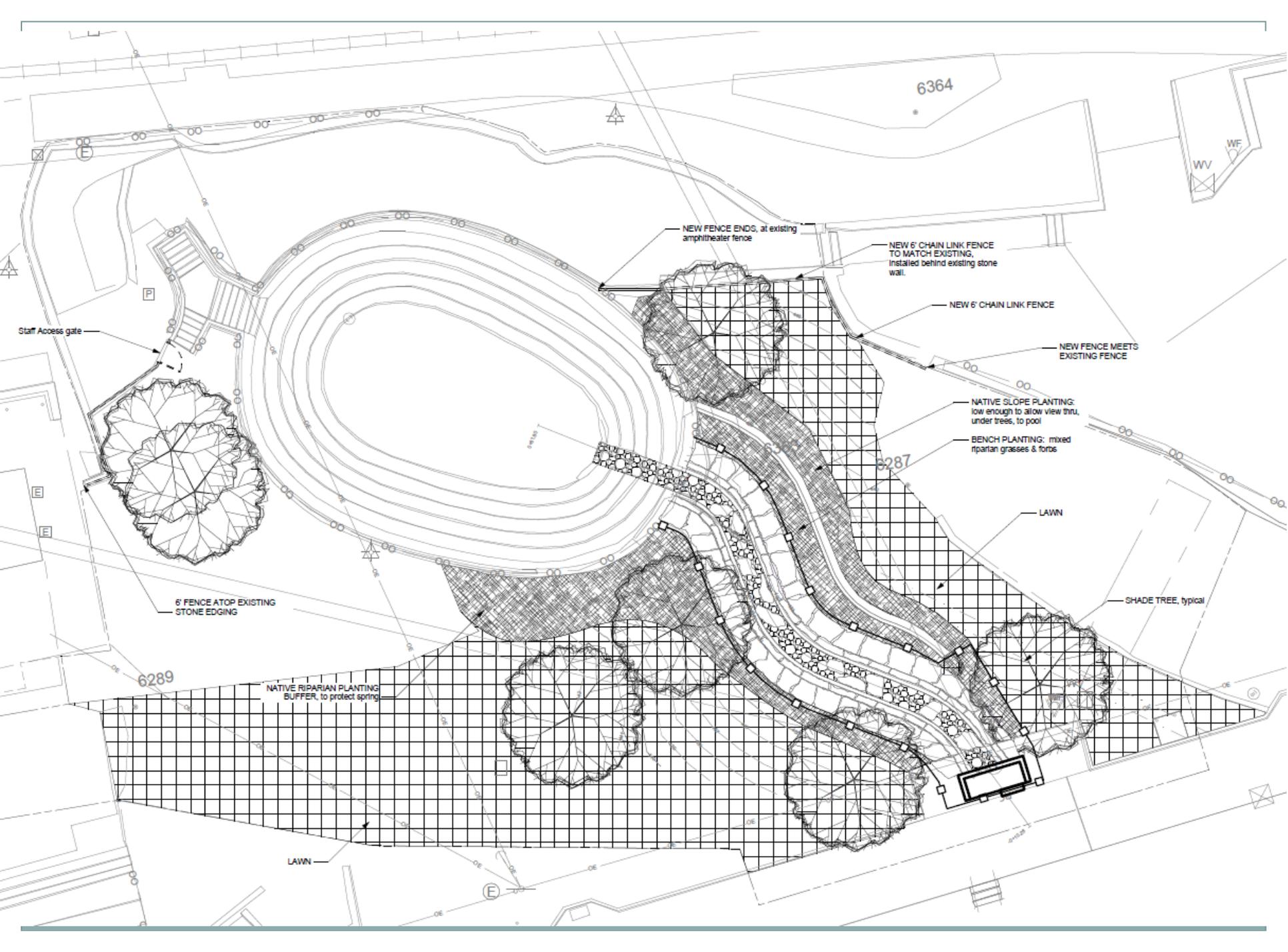
2.5' MIN



60% Major Design Concepts



- Stream channel basic construction
- Grading of banks
- **Native plantings**
- **Fence relocation**
- Existing storm drain redirection



6364

NEW FENCE ENDS, at existing amphitheater fence

NEW 6' CHAIN LINK FENCE TO MATCH EXISTING, Installed behind existing stone wall.

NEW 6' CHAIN LINK FENCE

NEW FENCE MEETS EXISTING FENCE

NATIVE SLOPE PLANTING: low enough to allow view thru, under trees, to pool

BENCH PLANTING: mixed riparian grasses & forbs

LAWN

SHADE TREE, typical

6287

Staff Access gate

6' FENCE ATOP EXISTING STONE EDGING

6289

NATIVE RIPARIAN PLANTING BUFFER, to protect spring

LAWN



WF

WV

E

E

E

E

60% Major Design Concepts



- Stream channel basic construction
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- Native plantings
- Fence relocation
- **Existing storm drain redirection**



- <http://www.austintexas.gov/department/eliza-spring-daylighting>
- Liza.colucci@austintexas.gov
- Next public meeting: Wednesday, March 19th, 2014
- 90% design: Spring 2014