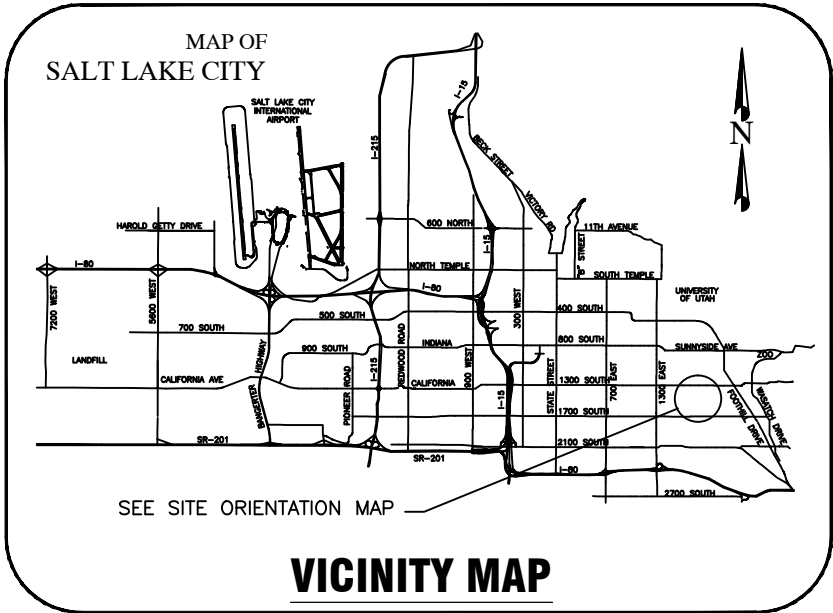


SALT LAKE CITY CORPORATION



WASATCH HOLLOW PRESERVE PHASE II RIPARIAN RESTORATION JOB NO. 231504 1596 SOUTH 1700 EAST



VICINITY MAP

OWNER

DEPARTMENT OF:
**COMMUNITY AND ECONOMIC DEVELOPMENT
ENGINEERING DIVISION**

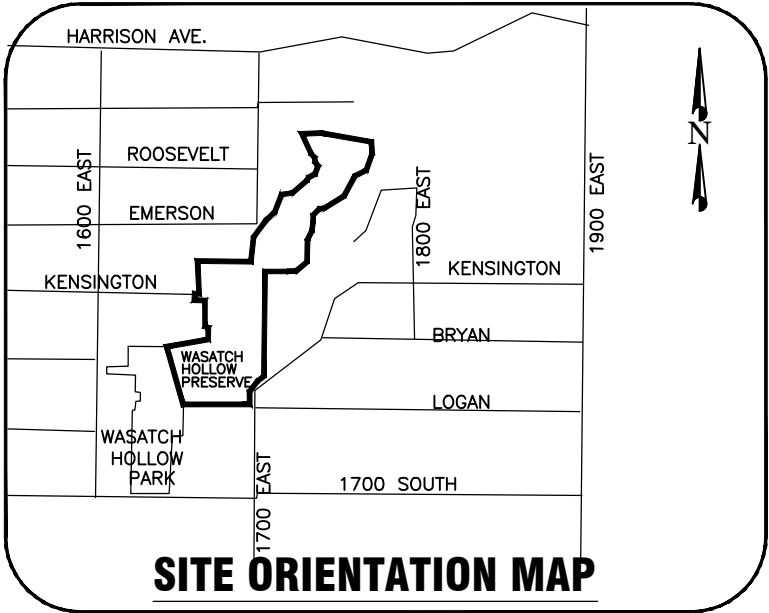
DIRECTOR - MARY DELAMARE SCHAEFER
CITY ENGINEER - JEFF SNELLING, S.E.

349 SOUTH 200 EAST, SUITE 100
SALT LAKE CITY, UTAH 84111
OFFICE - 801.535.7961
FAX - 801.535.6093

CITY OFFICIALS

MAYOR	RALPH BECKER
CITY COUNCIL	DIST. 1 JAMES ROGERS
	DIST. 2 KYLE LAMALFA
	DIST. 3 STAN PENFOLD
	DIST. 4 LUKE GARROTT
	DIST. 5 ERIN MENDENHALL
	DIST. 6 CHARLIE LUKE
	DIST. 7 LISA ADAMS

SHEET DESIGNATOR	BINDING ORDER	SHEET TITLE
GI001	1	GENERAL INFORMATION COVER SHEET
GI002	2	GENERAL INFORMATION NOTES
LD101	3	LANDSCAPE DEMOLITION PLAN
LS101 - LS103	4 - 6	LANDSCAPE SITE PLAN
LP101 - LP103	7 - 9	LANDSCAPE PLANTING PLAN
LI101 - LI103	10 - 12	LANDSCAPE IRRIGATION PLAN
LS401 - LS406	13 - 18	LARGE SCALE VIEWS
DT501 - DT507	19 - 26	DETAILS
CI101 - CI102	27 - 28	CIVIL IMPROVEMENT PLAN



SITE ORIENTATION MAP

DESIGNER

LANDSCAPE ARCHITECT:



CIVIL ENGINEER:



WASATCH HOLLOW PRESERVE
PHASE II RIPARIAN RESTORATION

JOB NO. 231504

CITY ENGINEER	CITY PROJECT MANAGER	PPL DIRECTOR	OPEN SPACE LANDS PROGRAM MANAGER	PROJECT DESIGNER
JEFF SNELLING, S.E.	RON SALISBURY, PLA	TODD REESE, RLA	LEWIS KOGAN	CHRISTOPHER SANDS, RLA
DATE	DATE	DATE	DATE	DATE

GENERAL NOTES

Project Limits

All construction activity shall be confined to the project limit of disturbance (footprint) including any staging/stockpile areas. Do not disturb, excavate or work beyond project limits of disturbance without permission from the Owners Representative.

Site Mapping

Basis of bearing for plans is UTM NAD 83 Zone 12N. The base survey was provided by Forsgren Associates, Inc. Verification of survey mapping is the responsibility of the Contractor.

Survey Staking

Survey staking is the responsibility of the Contractor. The Contractor may obtain CAD files from the Designer for staking and layout purposes.

Permits

The Contractor is required to comply with all construction related requirements in each permit issued for the project.

Utilities

Utility locations have not been surveyed. It is the responsibility of the Contractor to perform all utility locations at least 48 hours prior to excavation, call 1(800)662-4111. It is the responsibility of the Contractor to protect all existing sewer, water, gas and electric utilities encountered in the work. Any relocation or improvements of utilities shall be accurately noted on as-built drawings and issued to the Owners Representative at the completion of the project.

Temporary Construction Facilities

All temporary utilities and facilities will be the responsibility of the Contractor. A construction trailer is not required. Potable water is not available on site and shall be provided by the Contractor. A chemical toilet of suitable type shall be provided and maintained by the Contractor at all times. The Contractor is responsible for job site conditions and the safety for human life during the course of construction. This requirement shall apply continuously during the period of construction and is not limited to normal working hours.

The Contractor shall keep job site area clean, hazard free and dispose of all debris, rubbish and construction waste, and remove all abandoned materials from the site. All disturbed staging and access areas are to be restored to pre-construction condition. The Contractor is responsible to reclaim (regrade, seed and mulch) construction features not specified as remaining on the site and clean up all areas at the completion of the project.

Construction Spoils and Waste Handling

Items encountered below grade and not shown on the drawings shall be brought to the attention of the Owners Representative. All construction spoils and waste are the responsibility of the Contractor and shall be disposed of at an approved landfill facility.

Clearing and Grubbing

Existing on-site materials shall be carefully removed and stored for re-use, or disposed of at an approved landfill facility. All existing vegetation not in designated excavation areas and not designated for removal is to be protected in place. Completely remove stumps, roots, shrubs, weeds, and other debris protruding from the ground in areas to be excavated.

Site Earthwork and Grading

The Contractor is responsible for all site earthwork and grading activities to meet designs identified in plans and details, which are intended to show final result of design. Modifications may be required to suit job site conditions encountered during construction and shall be included in as-built drawings provided to the Owners Representative at completion of the project.

All stream channel banks affected by construction activities shall be stabilized and protected throughout construction.

Backfill and embankment material shall be composed of suitable excavated soils.

Existing topsoil shall be excavated and salvaged by Contractor for use in landscaping and grading activities. Topsoils used in landscaping shall have acidity range (pH) from 5.5 to 7.5 and a minimum organic content of 3%.

Topsoil shall be placed at 80% to 90% maximum dry density and subsoil at 85% minimum compaction as determined by the Standard Proctor Method (ASTM D0698-66T or AASHTO T99). All existing topsoils shall be salvaged and utilized for revegetation activities to the extent possible.

Site Construction Notes

All tree removal activities and site disturbance activities shall occur only after a Nesting Bird Survey has been conducted within the construction site footprint and all protocols and protective measures are followed.

All planting and seeding activities shall occur during the designated seeding and planting window from September 15 to December 1 unless in areas with irrigation or otherwise authorized by the Owners Representative.

Where ground conditions are damp and equipment traffic would result in excessive ground compaction and rutting, use construction mats to access active work areas.

Use a water truck or other suitable watering device as needed to control dust.

Inspect paved roads adjacent to the project site regularly for mud tracking; sweep roadways as needed and ensure roads are left clean at the end of each shift.

Clean site and dispose of construction waste as permitted.

Temporary Environmental/Safety Fence

Install fencing to demarcate active work areas as appropriate based on construction phasing.

The Contractor is responsible to keep access to Private Property open at all times during construction.

The Contractor is responsible for installing water control measures as needed to perform stream work in dry conditions. Water control measures include but are not limited to diversions, culverts, sumps with pumps or other means necessary to divert surface water away from the active work area.

Storm Water Pollution Prevention Plan Notes

1. No earth shall be disturbed until erosion control measures are in place.

2. Erosion control measures will be maintained and remain in place until re-vegetation measures have been established.

3. Monitor, inspect, and maintain all erosion control measures as needed to prevent erosion and sediment discharge into creek. Adjust locations of measures and install additional measures as construction phasing requires. Disturbed areas where construction activity has ceased will be stabilized in accordance with State UPDES and Salt Lake City requirements. Submittal of NOI and acquisition of UPDES Storm Water General Permit for Construction Activities (UTR300000) is the responsibility of the Contractor.

4. The Contractor is responsible for implementing and utilizing Best Management Practices (BMPs) to prevent storm water runoff and water pollution during construction activities. The Contractor is responsible for supplying equipment and plans that provide both dust and fire control during project construction. Use caution when working in and around wet areas. If potential hazardous materials are encountered, contact the Owners Representative immediately.

Grading And Drainage Plan Notes

1. Contractor to stake the boundary of the grading area for approval from the Owners Representative prior to grading.

2. Contractor is responsible for erosion, dust and temporary drainage control during grading operations.

3. Fill areas are to be compacted throughout to a minimum of 90% relative compaction.

4. Contractor is responsible for the location and protection of all utilities.

5. Export soil, if any, must be transported to a legal landfill or permitted site.

Landscape Planting Plan Notes

1. The planting plan is diagrammatic. Plant locations are approximate. Exact locations of plant materials to be approved by the Owners Representative in the field prior to installation.

2. All plant material shall conform to the guidelines established by "The American Standard for Nursery Stock", published by the American Association of Nurserymen, Inc.

3. No substitution of plant species will be allowed without the written approval of the Owners Representative.

4. Locate and verify all utility line locations prior to staking and report any conflicts to the Owners Representative.

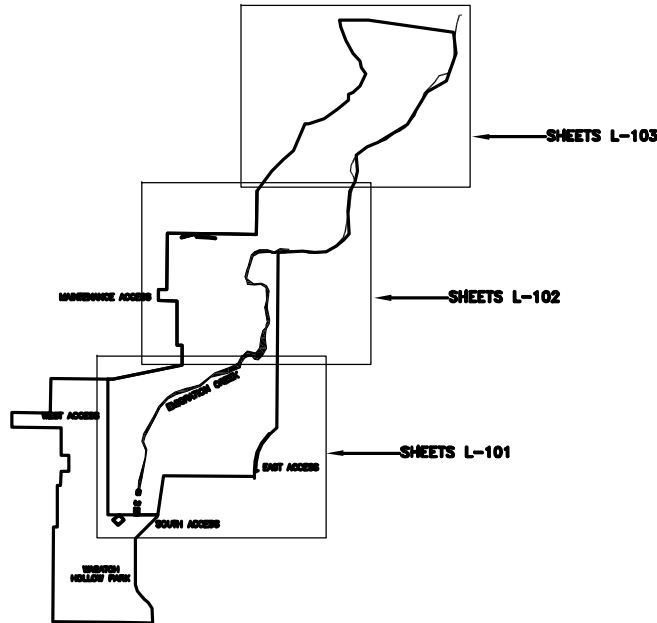
5. Do not install plant material until the rough grading of topsoil is approved by the Owners Representative.

6. Hand water plant material until established.

ABBREVIATIONS

APPROX	APPROXIMATE
AVG	AVERAGE
BC	BOTTOM OF CURB
BM	BENCHMARK
BOC	BACK OF CURB
BW	BOTTOM OF WALL
CAL	CALIPER
CL	CENTERLINE
CY	CUBIC YARD
DIA	DIAMETER
EL	ELEVATION
EXIST	EXISTING
FG	FINISH GRADE
HORIZ	HORIZONTAL
HP	HIGH POINT
IN	INCHES
LF	LINEAR FEET
LP	LOW POINT
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
REQ'D	REQUIRED
ROW	RIGHT OF WAY
SF	SQUARE FOOT
SHT	SHEET
TC	TOP OF CURB
TW	TOP OF WALL
TYP	TYPICAL
VERT	VERTICAL

SITE ORIENTATION KEY



PREPARER:

1063 West 1400 North
Logan, Utah 84321

PREPARER CONSULTANTS:

Forsgren Associates
370 East 500 South, #200
Salt Lake City, Utah 84111
Phone: (801)364-4785

PROFESSIONAL SEAL:



PROJECT IDENTIFICATION:

**WASATCH HOLLOW
PRESERVE
PHASE II RIPARIAN
RESTORATION**

PROJECT OWNER:

**SALT LAKE CITY
CORPORATION
ENGINEERING**

349 South 200 East, Suite 100
Salt Lake City, Utah 84114-5506
Phone: (801)535-6157

MARK	DATE	DESCRIPTION

PREPARER #:
CONTRACT #:
PROJECT #: **231504**
FILE #:
DRAWING FILE:
DRAWN BY: **S. DAVENPORT**
CHECKED BY: **C. SANDS**
COPYRIGHT:

SHEET TITLE:

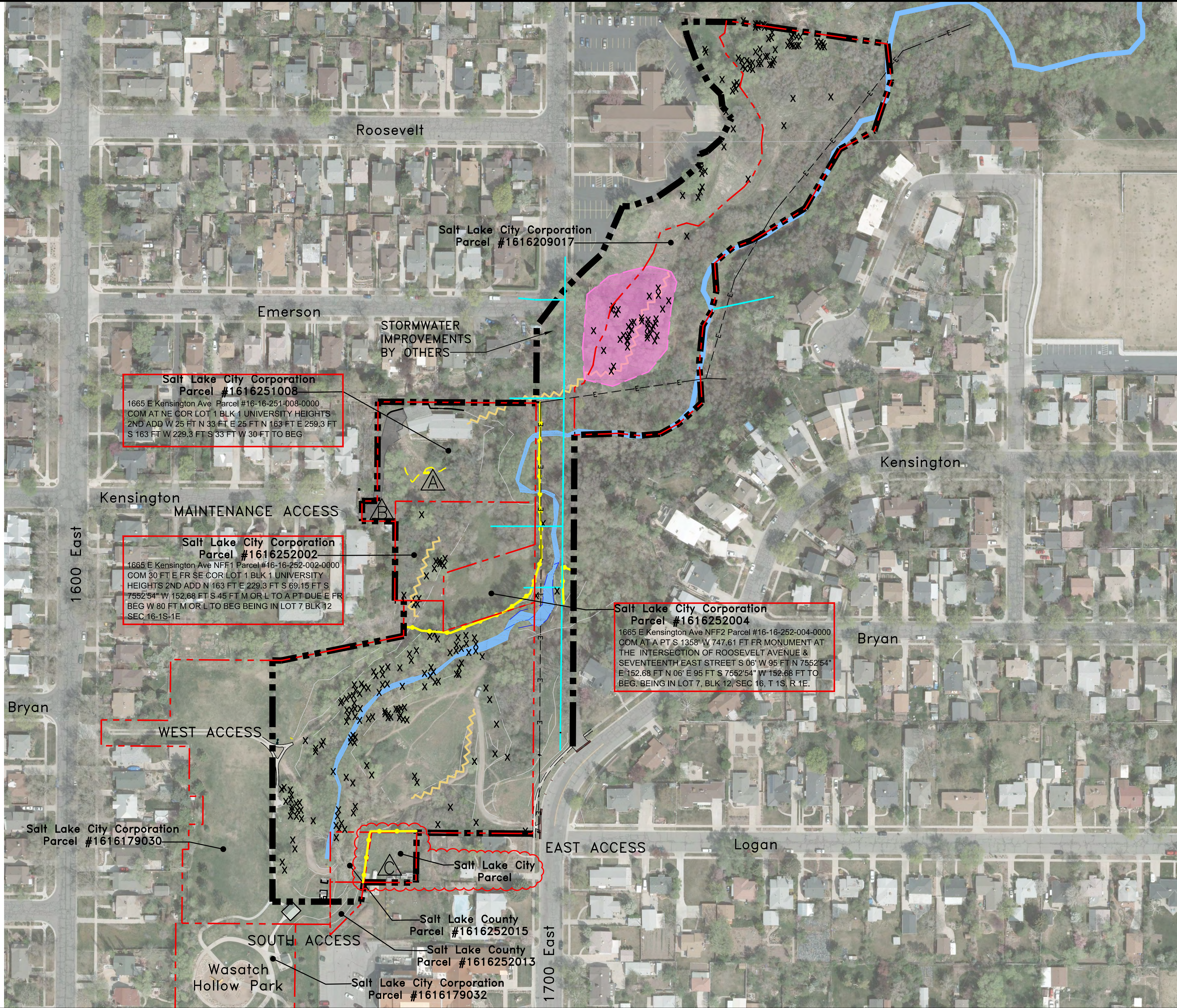
**GENERAL INFORMATION
NOTES**

SHEET IDENTIFIER:

G1002

BINDING
ORDER

2



LEGEND

- PROJECT BOUNDARY
- PARCEL LINE
- EMIGRATION CREEK (NOT SURVEYED)
- EXISTING WATER LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING TRAIL TO BE DECOMMISSIONED
- EXISTING FENCE TO BE REMOVED
- AREA OF DEBRIS AND TRASH TO BE EXCAVATED AND REMOVED.
- EXISTING INVASIVE / NON-NATIVE TREE TO BE REMOVED BY CONTRACTOR. ALL OTHER EXISTING TREES TO BE RETAINED AND PROTECTED UNLESS THEY ARE UNABLE TO BE SAVED AS A RESULT OF SITE GRADING AND SITE IMPROVEMENTS.
- EXISTING LANDSCAPE ROCK WALL AND STEPS TO BE REMOVED.
- EXISTING ASPHALT PAVING TO BE REMOVED.
- EXISTING SHED TO BE REMOVED.

DEMOLITION NOTES

1. COORDINATE DEMOLITION WORK WITH STORMWATER IMPROVEMENTS AT EMERSON STREET AND 1700 EAST STREET BY OTHERS.

PREPARER:

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PREPARER CONSULTANTS:

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Phone: (801)364-4785

PROFESSIONAL SEAL:

Sandra Davenport
No. 6677103
SANDRA DAVENPORT
6/25/2015
STATE OF UTAH

PROJECT IDENTIFICATION:

**WASATCH HOLLOW PRESERVE
PHASE II RIPARIAN RESTORATION**

PROJECT OWNER:

**SALT LAKE CITY CORPORATION
ENGINEERING**
349 South 200 East, Suite 100
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Phone: (801)535-6157

MARK	DATE	DESCRIPTION

PREPARER #:

CONTRACT #:

PROJECT #: 231504

FILE #:

DRAWING FILE:

DRAWN BY: S. DAVENPORT

CHECKED BY: C. SANDS

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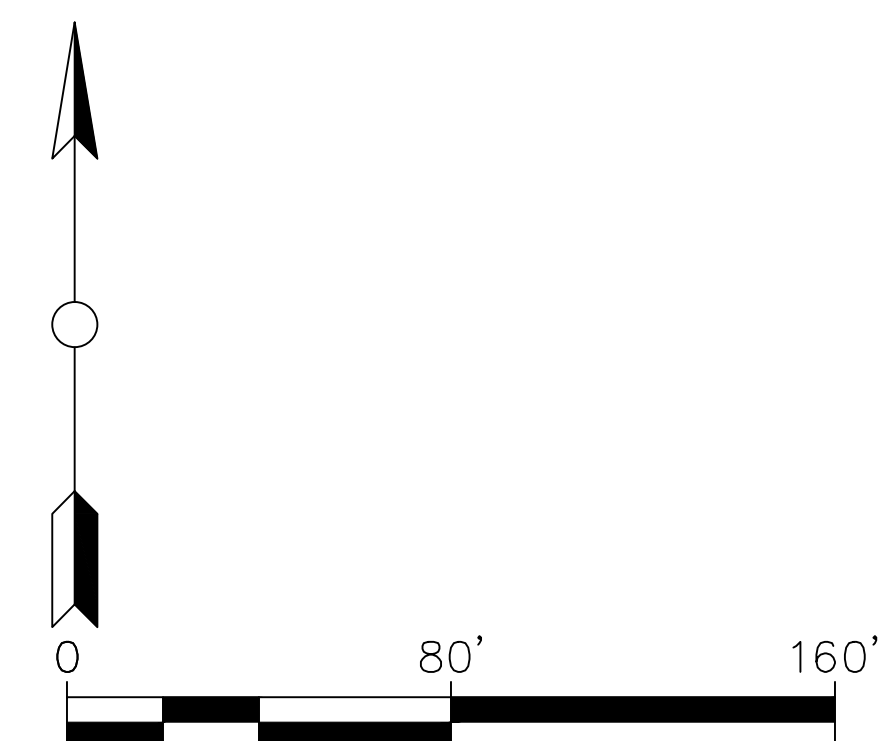
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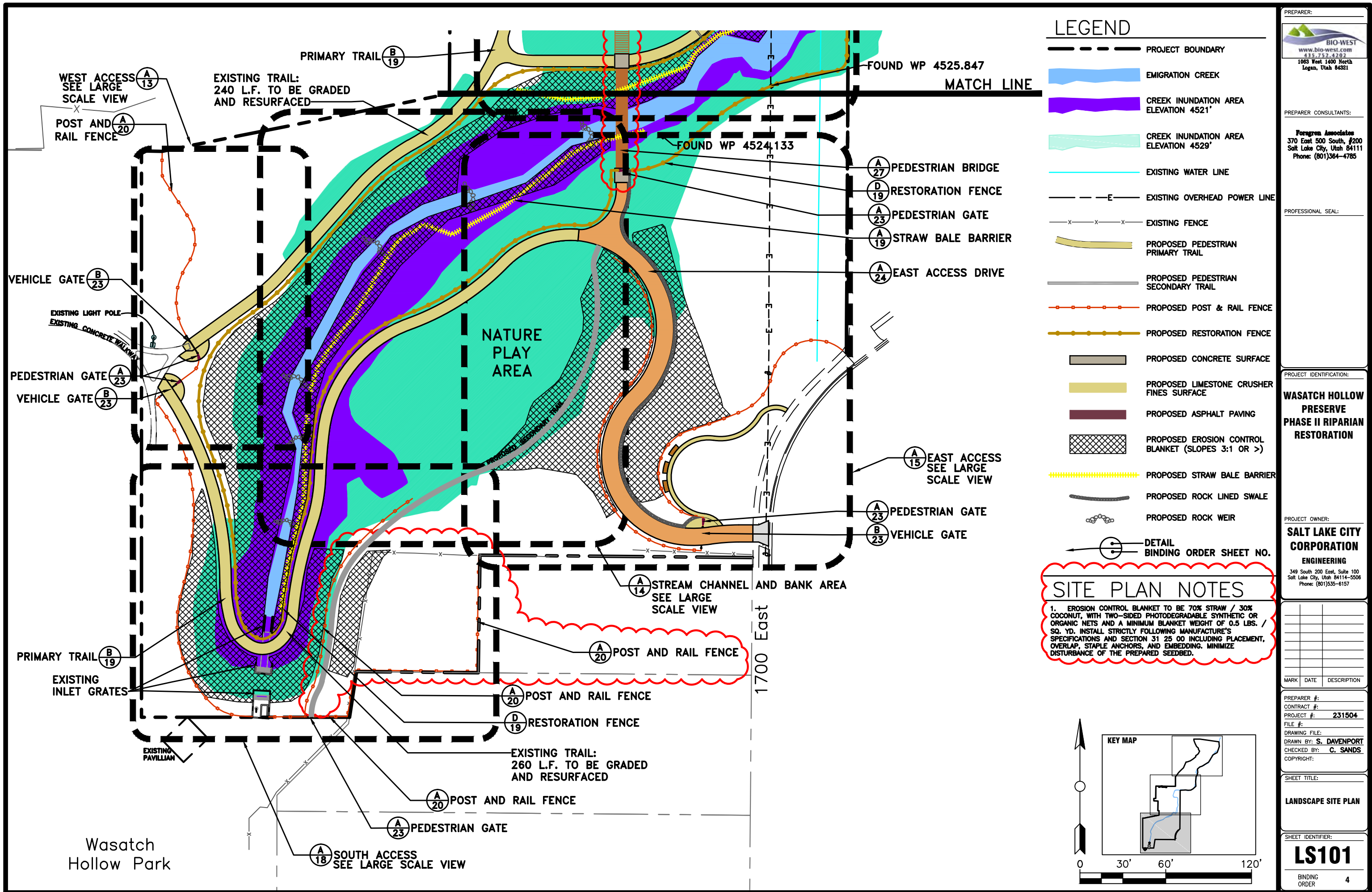
LANDSCAPE DEMOLITION PLAN

SHEET IDENTIFIER:

LD101

BINDING ORDER 3



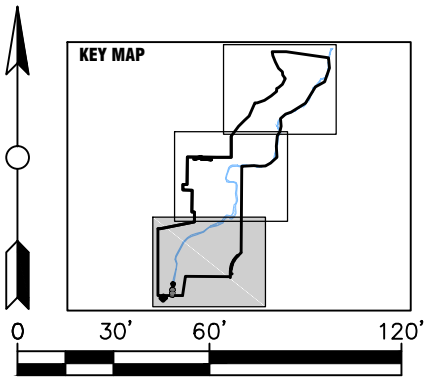


LEGEND

- PROJECT BOUNDARY
- EMIGRATION CREEK
- CREEK INUNDATION AREA ELEVATION 4521'
- CREEK INUNDATION AREA ELEVATION 4529'
- EXISTING WATER LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING FENCE
- PROPOSED PEDESTRIAN PRIMARY TRAIL
- PROPOSED PEDESTRIAN SECONDARY TRAIL
- PROPOSED POST & RAIL FENCE
- PROPOSED RESTORATION FENCE
- PROPOSED CONCRETE SURFACE
- PROPOSED LIMESTONE CRUSHER FINES SURFACE
- PROPOSED ASPHALT PAVING
- PROPOSED EROSION CONTROL BLANKET (SLOPES 3:1 OR >)
- PROPOSED STRAW BALE BARRIER
- PROPOSED ROCK LINED SWALE
- PROPOSED ROCK WEIR
- DETAIL BINDING ORDER SHEET NO.

SITE PLAN NOTES

1. EROSION CONTROL BLANKET TO BE 70% STRAW / 30% COCONUT, WITH TWO-SIDED PHOTODEGRADABLE SYNTHETIC OR ORGANIC NETS AND A MINIMUM BLANKET WEIGHT OF 0.5 LBS. / SQ. YD. INSTALL STRICTLY FOLLOWING MANUFACTURE'S SPECIFICATIONS AND SECTION 31 25 00 INCLUDING PLACEMENT, OVERLAP, STAPLE ANCHORS, AND EMBEDDING. MINIMIZE DISTURBANCE OF THE PREPARED SEEDBED.



PREPARED BY: **BIO-WEST**
www.bio-west.com
888.753.4292
1063 West 1400 North
Logan, Utah 84321

PREPARED BY CONSULTANTS: **Foragren Associates**
370 East 500 South, #200
Salt Lake City, Utah 84111
Phone: (801)364-4785

PROFESSIONAL SEAL:

PROJECT IDENTIFICATION: **WASATCH HOLLOW PRESERVE PHASE II RIPARIAN RESTORATION**

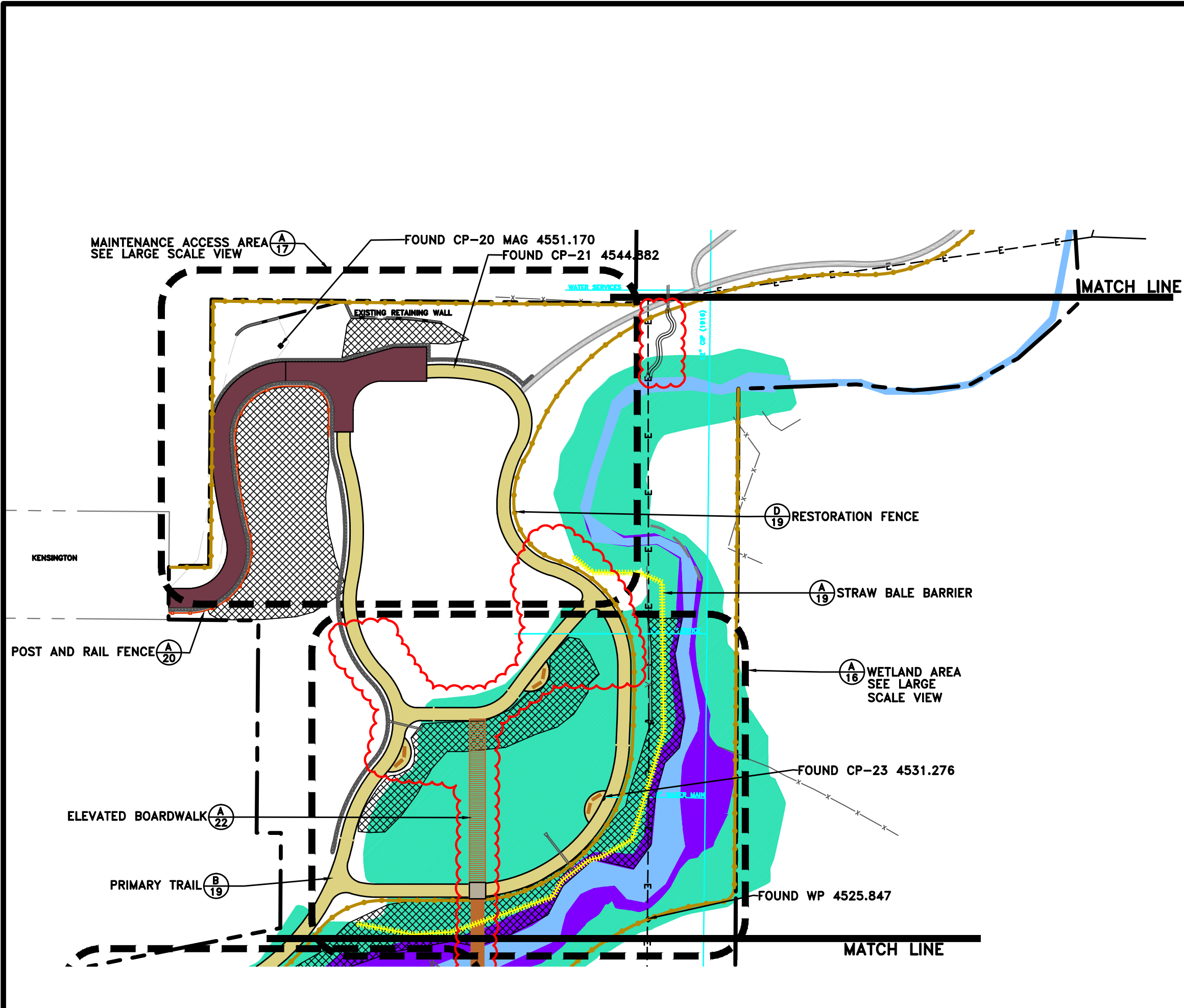
PROJECT OWNER: **SALT LAKE CITY CORPORATION**
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349 South 200 East, Suite 100
Salt Lake City, Utah 84114-5506
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MARK	DATE	DESCRIPTION

PREPARED BY: **S. DAVENPORT**
CONTRACT #: **231504**
PROJECT #: **231504**
FILE #: **231504**
DRAWING FILE: **S. DAVENPORT**
CHECKED BY: **C. SANDS**
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SHEET TITLE: **LANDSCAPE SITE PLAN**

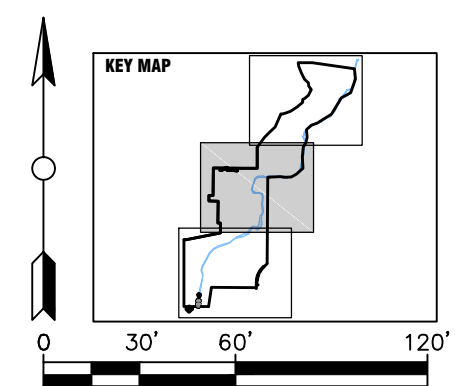
SHEET IDENTIFIER: **LS101**
BINDING ORDER **4**



- ### LEGEND
- PROJECT BOUNDARY
 - EMIGRATION CREEK
 - CREEK INUNDATION AREA ELEVATION 4521'
 - CREEK INUNDATION AREA ELEVATION 4529'
 - EXISTING WATER LINE
 - EXISTING OVERHEAD POWER LINE
 - EXISTING FENCE
 - PROPOSED PEDESTRIAN PRIMARY TRAIL
 - PROPOSED PEDESTRIAN SECONDARY TRAIL
 - PROPOSED POST & RAIL FENCE
 - PROPOSED RESTORATION FENCE
 - PROPOSED CONCRETE SURFACE
 - PROPOSED LIMESTONE CRUSHER FINES SURFACE
 - PROPOSED ASPHALT PAVING
 - PROPOSED EROSION CONTROL BLANKET (SLOPES 3:1 OR >)
 - PROPOSED STRAW BALE BARRIER
 - PROPOSED ROCK LINED SWALE
 - PROPOSED ROCK WEIR
 - DETAIL BINDING ORDER SHEET NO.

SITE PLAN NOTES

1. EROSION CONTROL BLANKET TO BE 70% STRAW / 30% COCONUT, WITH TWO-SIDED PHOTODEGRADABLE SYNTHETIC OR ORGANIC NETS AND A MINIMUM BLANKET WEIGHT OF 0.5 LBS. / SQ. YD. INSTALL STRICTLY FOLLOWING MANUFACTURE'S SPECIFICATIONS AND SECTION 31 25 00 INCLUDING PLACEMENT, OVERLAP, STAPLE ANCHORS, AND EMBEDDING. MINIMIZE DISTURBANCE OF THE PREPARED SEEDBED.



PREPARED BY:

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PROFESSIONAL SEAL:

PROJECT IDENTIFICATION:

WASATCH HOLLOW PRESERVE PHASE II RIPARIAN RESTORATION

PROJECT OWNER:

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ENGINEERING
349 South 200 East, Suite 100
Salt Lake City, Utah 84114-5506
Phone: (801)535-6157

MARK	DATE	DESCRIPTION

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CONTRACT #: _____

PROJECT #: **231504**

FILE #: _____

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CHECKED BY: **C. SANDS**

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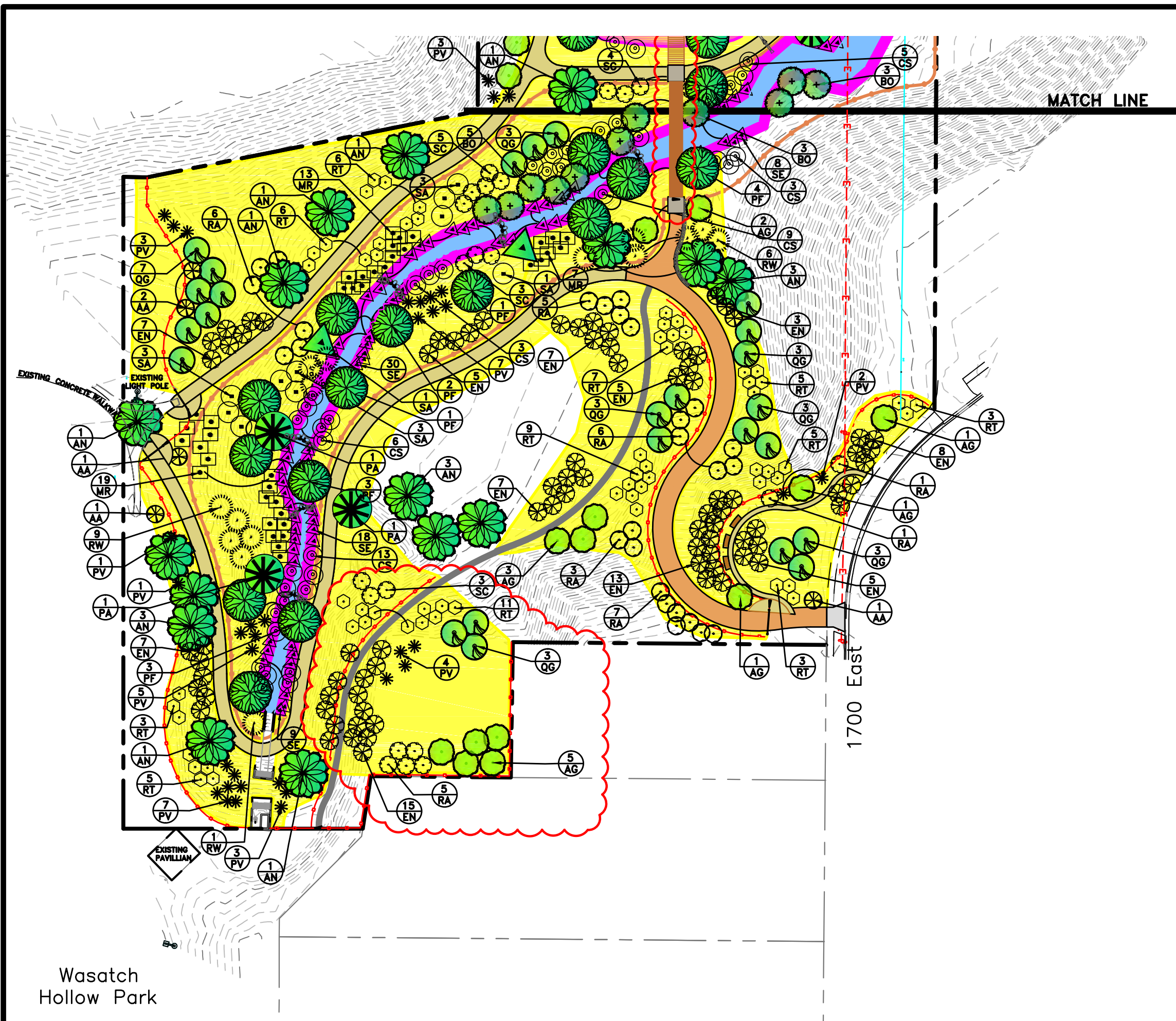
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LANDSCAPE SITE PLAN

SHEET IDENTIFIER:

LS102

BINDING ORDER **5**



PLANTING LEGEND

KEY BOTANICAL NAME / COMMON NAME TREE

- AG ACER GRANDIDENTATUM / BIGTOOTH MAPLE
- AN ACER NEGUNDO / BOX ELDER
- BO BETULA OCCIDENTALIS / RIVER BIRCH
- PF POPULUS FREMONTII / FREMONT COTTONWOOD
- PA POPULUS ANGUSTIFOLIA / NARROWLEAF COT.
- QG QUERCUS GAMBELII / GAMBEL OAK
- SA SALIX AMYGDALOIDES / PEACHLEAF WILLOW

SHRUBS

- AA AMELANCHIER ALNIFOLIA / SERVICEBERRY
- EN ERICAMERIA NAUSEOSA / RABBITBRUSH
- CS CORNUS SERICEA / RED-OSIER DOGWOOD
- PV PRUNUS VIRGINIANA / CHOKECHERRY
- RT RHUS TRILOBATA / SKUNKBUSH
- RA RIBES AUREUM / GOLDEN CURRANT
- RW ROSA WOODSII / WOODS ROSE
- SE SALIX EXIGUA / COYOTE WILLOW
- SC SAMBUCUS CAERULEA / BLUE ELDERBERRY
- MR MAHONIA REPENS / CREEPING MAHONIA
- SA SYMPHORICARPOS ALBUS / SNOWBERRY

SEED MIXES

- NATIVE UPLAND SEED MIX
- NATIVE RIPARIAN SEED MIX

PLANT QUANTITY

PLANT KEY

LANDSCAPING NOTES

- INSTALL EROSION CONTROL BLANKET IN ALL SEED MIX AREAS WITH SLOPES 3:1 AND STEEPER. INSTALL MULCH IN ALL SEED MIX AREAS WITH SLOPES LESS THAN 3:1.
- SEE DETAIL SHEET DT507 FOR SEED MIXES.
- SEE DETAIL SHEET DT507 FOR PLANT SIZES AND QUANTITIES.
- PROVIDE A MINIMUM TOPSOIL DEPTH OF FIVE (5) INCHES ON AREAS OF CUT AND FILL DISTURBANCES AS PER SECTION 32 92 00. IN ALL OTHER AREAS TO BE SEEDDED USING EXISTING TOPSOIL, TILL SOIL TO A DEPTH OF FOUR (4) INCHES AS PER SECTION 32 92 00.
- ALL PLANT SPECIES ARE NATIVE TO UTAH AND ADAPTED TO CONDITIONS FOUND ON SITE. RIPARIAN SPECIES ARE LOCATED ALONG EMIGRATION CREEK AND UPLAND SPECIES ARE LOCATED IN ALL OTHER AREAS.

PREPARED BY: BIO-WEST
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Phone: (801)364-4785

PROFESSIONAL SEAL:

PROJECT IDENTIFICATION:

WASATCH HOLLOW PRESERVE PHASE II RIPARIAN RESTORATION

PROJECT OWNER: SALT LAKE CITY CORPORATION

ENGINEERING
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MARK	DATE	DESCRIPTION

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CONTRACT #: 231504
FILE #: 231504
DRAWING FILE: 231504
DRAWN BY: S. DAVENPORT
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









SHEET TITLE: LANDSCAPE PLANTING PLAN





SHEET IDENTIFIER: LP101

BINDING ORDER 7

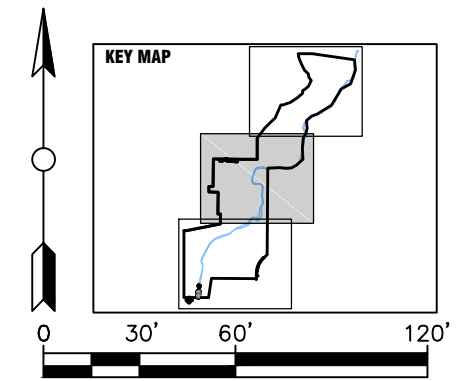
KEY MAP

	KEY TREE	BOTANICAL NAME / COMMON NAME
	AG	ACER GRANDIDENTATUM / BIGTOOTH MAPLE
	AN	ACER NEGUNDO / BOX ELDER
	BO	BETULA OCCIDENTALIS / RIVER BIRCH
	PF	POPULUS FREMONTII / FREMONT COTTONWOOD
	PA	POPULUS ANGUSTIFOLIA / NARROWLEAF COT.
	QG	QUERCUS GAMBELII / GAMBEL OAK
	SA	SALIX AMYGDALOIDES / PEACHLEAF WILLOW

	AA	AMELANCHIER ALNIFOLIA / SERVICEBERRY
	EN	ERICAMERIA NAUSEOSA / RABBITBRUSH
	CS	CORNUS SERICEA / RED-OSIER DOGWOOD
	PV	PRUNUS VIRGINIANA / CHOKECHERRY
	RT	RHUS TRILOBATA / SKUNKBUSH
	RA	RIBES AUREUM / GOLDEN CURRANT
	RW	ROSA WOODSII / WOODS ROSE
	SE	SALIX EXIGUA / COYOTE WILLOW
	SC	SAMBUCUS CAERULEA / BLUE ELDERBERRY
	MR	MAHONIA REPENS / CREEPING MAHONIA
	SA	SYMPHORICARPOS ALBUS / SNOWBERRY

 NATIVE UPLAND SEED MIX
 NATIVE RIPARIAN SEED MIX
 — PLANT QUANTITY
 — PLANT KEY

1. INSTALL EROSION CONTROL BLANKET IN ALL SEED MIX AREAS WITH SLOPES 3:1 AND STEEPER. INSTALL MULCH IN ALL SEED MIX AREAS WITH SLOPES LESS THAN 3:1.
2. SEE DETAIL SHEET DT507 FOR SEED MIXES.
3. SEE DETAIL SHEET DT507 FOR PLANT SIZES AND QUANTITIES.
4. PROVIDE A MINIMUM TOPSOIL DEPTH OF FIVE (5) INCHES ON AREAS OF CUT AND FILL DISTURBANCES AS PER SECTION 32 92 00. IN ALL OTHER AREAS TO BE SEEDD USING EXISTING TOPSOIL, TILL SOIL TO A DEPTH OF FOUR (4) INCHES AS PER SECTION 32 92 00.
5. ALL PLANT SPECIES ARE NATIVE TO UTAH AND ADAPTED TO CONDITIONS FOUND ON SITE. RIPARIAN SPECIES ARE LOCATED ALONG EMIGRATION CREEK AND UPLAND SPECIES ARE LOCATED IN ALL OTHER AREAS.



PROJECT OWNER:

**SALT LAKE CITY
CORPORATION**

ENGINEERING

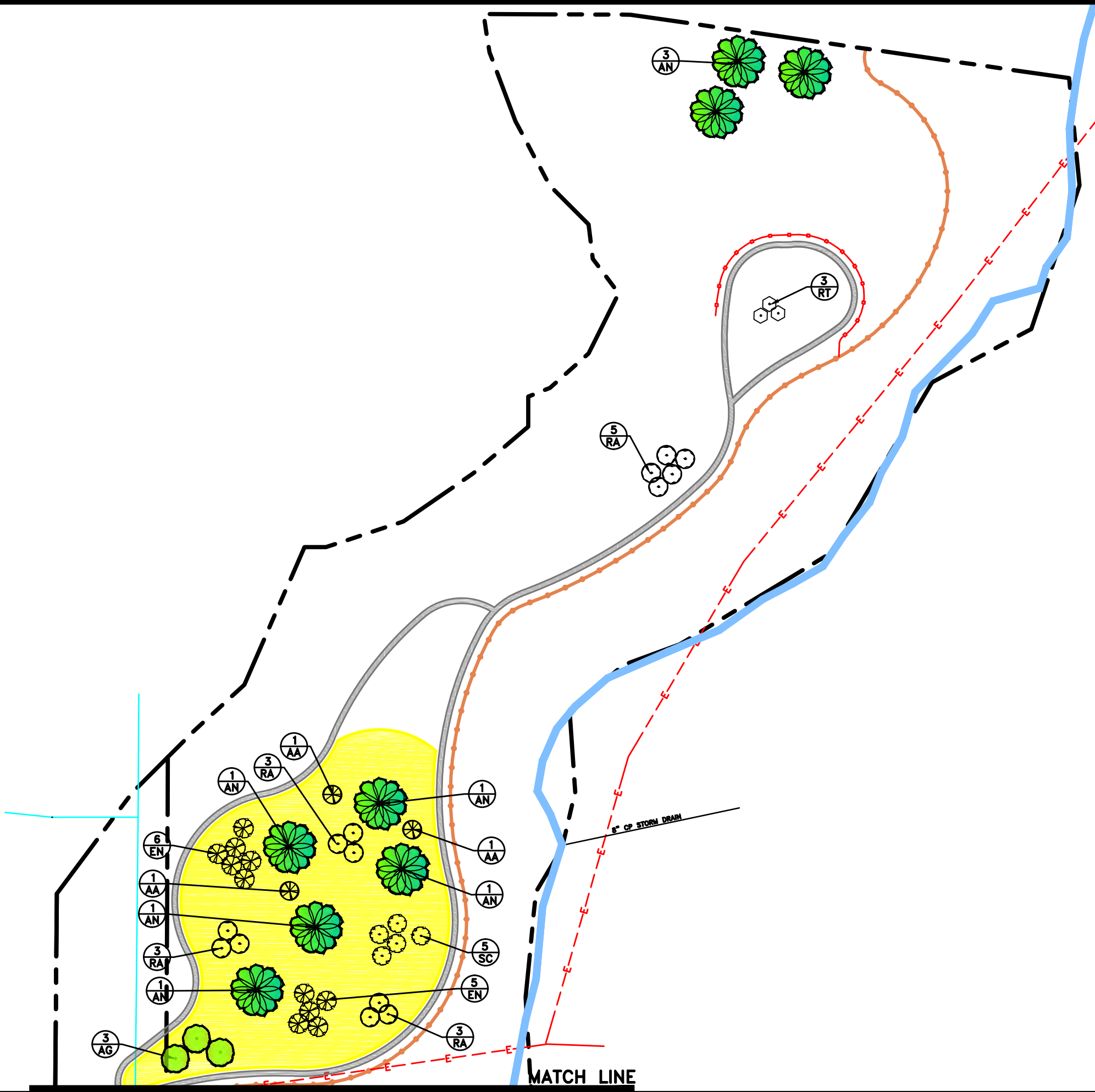
349 South 200 East, Suite 100
Salt Lake City, Utah 84114-5506
Phone: (801)535-6157

[illegible]

SHEET IDENTIFIER:

LP102

BINDING ORDER **8**

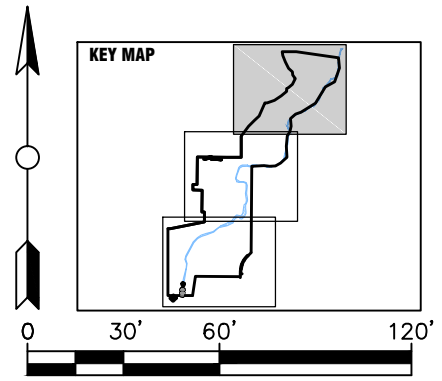


PLANTING LEGEND

- KEY BOTANICAL NAME / COMMON NAME
- TREE
- AG ACER GRANDIDENTATUM / BIGTOOTH MAPLE
 - AN ACER NEGUNDO / BOX ELDER
 - BO BETULA OCCIDENTALIS / RIVER BIRCH
 - PF POPULUS FREMONTII / FREMONT COTTONWOOD
 - PA POPULUS ANGUSTIFOLIA / NARROWLEAF COT.
 - QG QUERCUS GAMBELII / GAMBEL OAK
 - SA SALIX AMYGDALOIDES / PEACHLEAF WILLOW
- SHRUBS
- AA AMELANCHIER ALNIFOLIA / SERVICEBERRY
 - EN ERICAMERIA NAUSEOSA / RABBITBRUSH
 - CS CORNUS SERICEA / RED-OSIER DOGWOOD
 - PV PRUNUS VIRGINIANA / CHOKECHERRY
 - RT RHUS TRILOBATA / SKUNKBUSH
 - RA RIBES AUREUM / GOLDEN CURRANT
 - RW ROSA WOODSII / WOODS ROSE
 - SE SALIX EXIGUA / COYOTE WILLOW
 - SC SAMBUCUS CAERULEA / BLUE ELDERBERRY
 - MR MAHONIA REPENS / CREEPING MAHONIA
 - SA SYMPHORICARPOS ALBUS / SNOWBERRY
- SEED MIXES
- NATIVE UPLAND SEED MIX
 - NATIVE RIPARIAN SEED MIX
- PLANT QUANTITY
- PLANT KEY

LANDSCAPING NOTES

1. INSTALL EROSION CONTROL BLANKET IN ALL SEED MIX AREAS WITH SLOPES 3:1 AND STEEPER. INSTALL MULCH IN ALL SEED MIX AREAS WITH SLOPES LESS THAN 3:1.
2. SEE DETAIL SHEET DT507 FOR SEED MIXES.
3. SEE DETAIL SHEET DT507 FOR PLANT SIZES AND QUANTITIES.
4. PROVIDE A MINIMUM TOPSOIL DEPTH OF FIVE (5) INCHES ON AREAS OF CUT AND FILL DISTURBANCES AS PER SECTION 32 92 00. IN ALL OTHER AREAS TO BE SEEDED USING EXISTING TOPSOIL, TILL SOIL TO A DEPTH OF FOUR (4) INCHES AS PER SECTION 32 92 00.
5. ALL PLANT SPECIES ARE NATIVE TO UTAH AND ADAPTED TO CONDITIONS FOUND ON SITE. RIPARIAN SPECIES ARE LOCATED ALONG EMIGRATION CREEK AND UPLAND SPECIES ARE LOCATED IN ALL OTHER AREAS.



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PROFESSIONAL SEAL:
Sandra Davenport
No. 6677105
SANDRA DAVENPORT
UTAH LANDSCAPE ARCHITECT
DATE OF UTAH

PROJECT IDENTIFICATION:
**WASATCH HOLLOW PRESERVE
PHASE II RIPARIAN RESTORATION**

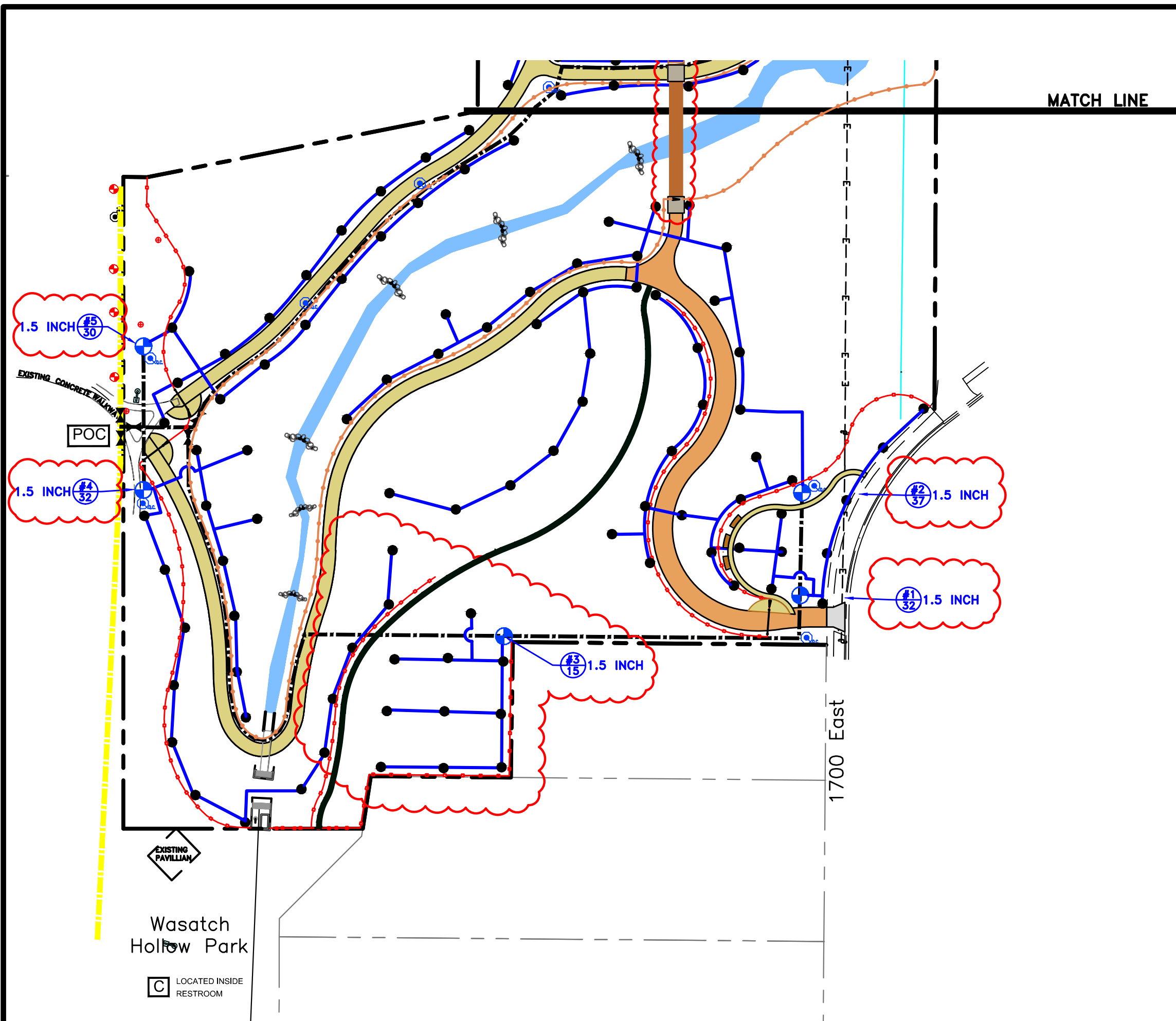
PROJECT OWNER:
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MARK	DATE	DESCRIPTION

PREPARED BY: **S. DAVENPORT**
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PROJECT #: **231504**
FILE #: **231504**
DRAWING FILE:
DRAWN BY: **S. DAVENPORT**
CHECKED BY: **C. SANDS**
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SHEET TITLE:
LANDSCAPE PLANTING PLAN

SHEET IDENTIFIER:
LP103
BINDING ORDER **9**

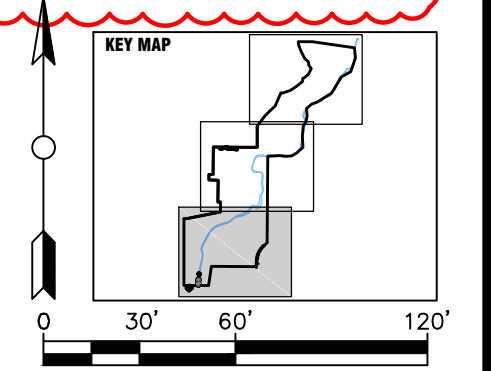


IRRIGATION LEGEND

- POC** IRRIGATION POINT OF CONNECTION: TIE (SPLICE) INTO 3" PARK PRESSURIZED LINE WITH A NEW 2" TEE AND 2" MAIN LINE AND ISOLATION VALVE. INSTALL TWO NEW ISOLATION VALVES ON THE EXISTING LINE.
- C** NEW 9 STATION CONTROLLER (MATCH EXISTING CONTROLLER MANUFACTURE LOCATE INSIDE RESTROOM)
- EXIST. 3" SCH. 40 IRRIGATION MAINLINE
- EXIST. CONTROL VALVE (APPROXIMATE)
- EXIST. IRRIGATION HEAD (APPROXIMATE)
- 2" SCH. 40 IRRIGATION MAINLINE (DETAIL F/DT508)
- SCH. 40 LATERAL, SIZE AS NOTED (DETAIL F/DT508)
- ISOLATION VALVE: LEEMCO LMV SERIES, LINE SIZE, IN A CARSON 910 VALVE BOX WITH LID. (DETAIL C/DT508)
- REMOTE CONTROL VALVE: RAIN BIRD PEB INSIDE A CARSON VALVE BOX WITH LID. (DETAIL A/DT508)
- QUICK COUPLER: RAIN BIRD 44LRC INSIDE A CARSON 910 VALVE BOX W/ LID. (DETAIL B/DT508)
- ROTOR SPRAY HEAD: RAIN BIRD 5000 SERIES 5012-PL-PC/FC-SAM-R-SS NOZZLE 1.5 (35 PSI: 34' RAD. 1.54 GPM) (DETAIL D/DT508)
- VALVE NO. 28 GPMS

IRRIGATION NOTES

1. THIS PORTION OF THE IRRIGATION SYSTEM IS DESIGNED FOR MAXIMUM OF 39 GALLONS PER MINUTE AT 75 PSI STATIC MIN. VERIFY THE AVAILABLE WATER PRESSURE AT THE P.O.C. PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE SHOWN ON THE PLANS AND THE ACTUAL PRESSURE READING AT THE P.O.C. TO THE LANDSCAPE ARCHITECT IN WRITING.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO BE KNOWLEDGEABLE OF ALL UTILITIES, STRUCTURES AND GRADE DIFFERENCES ON THE SITE AND TO REPAIR OR REPLACE ALL ITEMS DAMAGED BY HIS WORK AT NO ADDITIONAL COST TO THE OWNER.
3. DO NOT DELIBERATELY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THESE PLANS IF THERE ARE ANY OBVIOUS OBSTRUCTIONS OR INCONSISTENCIES IN THE FIELD THAT MIGHT NOT HAVE BEEN ANTICIPATED IN THE IRRIGATION DESIGN. NOTIFY THE LANDSCAPE ARCHITECT OF ANY SUCH DIFFERENCES IN WRITING.
4. ADJUST ALL SPRINKLER HEADS, VALVES AND EQUIPMENT FOR OPTIMUM COVERAGE, AND ADJUST ARC RADIUS AND NOZZLE OF EACH SPRINKLER TO AVOID SPRAYING ONTO WALKS, STREETS, BUILDING, ETC.
5. COORDINATE IRRIGATION HEAD LOCATIONS WITH PLANT MATERIAL PLACEMENT.
6. THIS IRRIGATION DESIGN IS DIAGRAMMATIC. WHERE VALVES, PIPING AND ETC. ARE SHOWN OUTSIDE OF PLANTING AREAS, THE INTENT IS FOR THIS EQUIPMENT TO BE INSTALLED WITHIN THE PLANTING AREAS.
7. INSTALL ALL IRRIGATION EQUIPMENT NOT DETAILED OR SPECIFIED BUT REQUIRED FOR A FULLY OPERATING SYSTEM PER MANUFACTURERS SPECIFICATIONS.
8. RETAIN AND PROTECT ALL EXISTING IRRIGATION EQUIPMENT.
9. SLEEVE ALL PIPE UNDER PAVING OR TRAILS ETC. WITH SCH. 40 PVC PIPE THAT IS 2X DIA. OF PIPE TO BE SLEEVED.
10. IRRIGATION SYSTEM IS INTENDED SOLELY FOR USE DURING PLANT ESTABLISHMENT PERIOD AND DROUGHT CONDITIONS.



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PROFESSIONAL SEAL:

PROJECT IDENTIFICATION:
**WASATCH HOLLOW PRESERVE
PHASE II RIPARIAN RESTORATION**

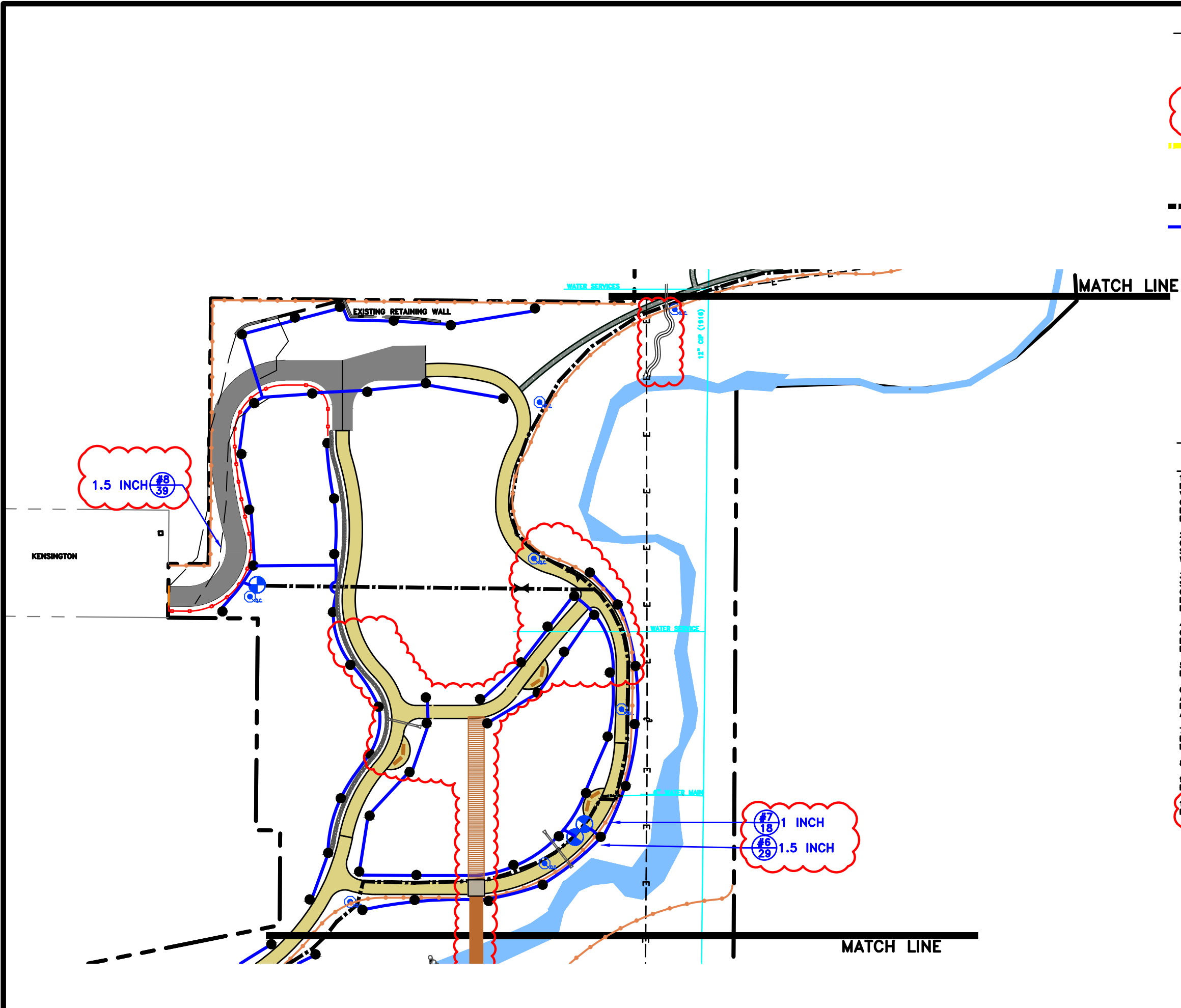
PROJECT OWNER:
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MARK DATE DESCRIPTION

PREPARED BY:
CONTRACT #:
PROJECT #:
FILE #:
DRAWING FILE:
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SHEET TITLE:
LANDSCAPE IRRIGATION PLAN

SHEET IDENTIFIER:
LI101
BINDING ORDER 10



IRRIGATION LEGEND

POC IRRIGATION POINT OF CONNECTION: TIE (SPlice) INTO 3" PARK PRESSURIZED LINE WITH A NEW 2" TEE AND 2" MAIN LINE AND ISOLATION VALVE. INSTALL TWO NEW ISOLATION VALVES ON THE EXISTING LINE.

C NEW 9 STATION CONTROLLER (MATCH EXISTING CONTROLLER MANUFACTURE LOCATE INSIDE RESTROOM)

EXIST. 3" SCH. 40 IRRIGATION MAINLINE

EXIST. CONTROL VALVE (APPROXIMATE)

EXIST. IRRIGATION HEAD (APPROXIMATE)

2" SCH. 40 IRRIGATION MAINLINE (DETAIL F/DT508)

SCH. 40 LATERAL, SIZE AS NOTED (DETAIL F/DT508)

ISOLATION VALVE: LEEMCO LMV SERIES, LINE SIZE. IN A CARSON 910 VALVE BOX WITH LID. (DETAIL C/DT508)

REMOTE CONTROL VALVE: RAIN BIRD PEB INSIDE A CARSON VALVE BOX WITH LID. (DETAIL A/DT508)

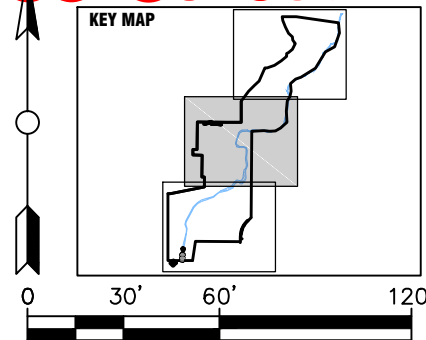
QUICK COUPLER: RAIN BIRD 44LRC INSIDE A CARSON 910 VALVE BOX W/ LID. (DETAIL B/DT508)

ROTOR SPRAY HEAD: RAIN BIRD 5000 SERIES 5012-PL-PC/FC-SAM-R-SS NOZZLE 1.5 (35 PSI: 34' RAD. 1.54 GPM) (DETAIL D/DT508)

VALVE NO. 287 GPMS

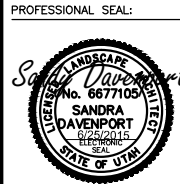
IRRIGATION NOTES

1. THIS PORTION OF THE IRRIGATION SYSTEM IS DESIGNED FOR MAXIMUM OF 39 GALLONS PER MINUTE AT 75 PSI STATIC MIN. VERIFY THE AVAILABLE WATER PRESSURE AT THE P.O.C. PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE SHOWN ON THE PLANS AND THE ACTUAL PRESSURE READING AT THE P.O.C. TO THE LANDSCAPE ARCHITECT IN WRITING.
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4. ADJUST ALL SPRINKLER HEADS, VALVES AND EQUIPMENT FOR OPTIMUM COVERAGE, AND ADJUST ARC RADIUS AND NOZZLE OF EACH SPRINKLER TO AVOID SPRAYING ONTO WALKS, STREETS, BUILDING, ETC.
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10. IRRIGATION SYSTEM IS INTENDED SOLELY FOR USE DURING PLANT ESTABLISHMENT PERIOD AND DROUGHT CONDITIONS.



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Salt Lake City, Utah 84111
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PROJECT IDENTIFICATION:

**WASATCH HOLLOW
PRESERVE
PHASE II RIPARIAN
RESTORATION**

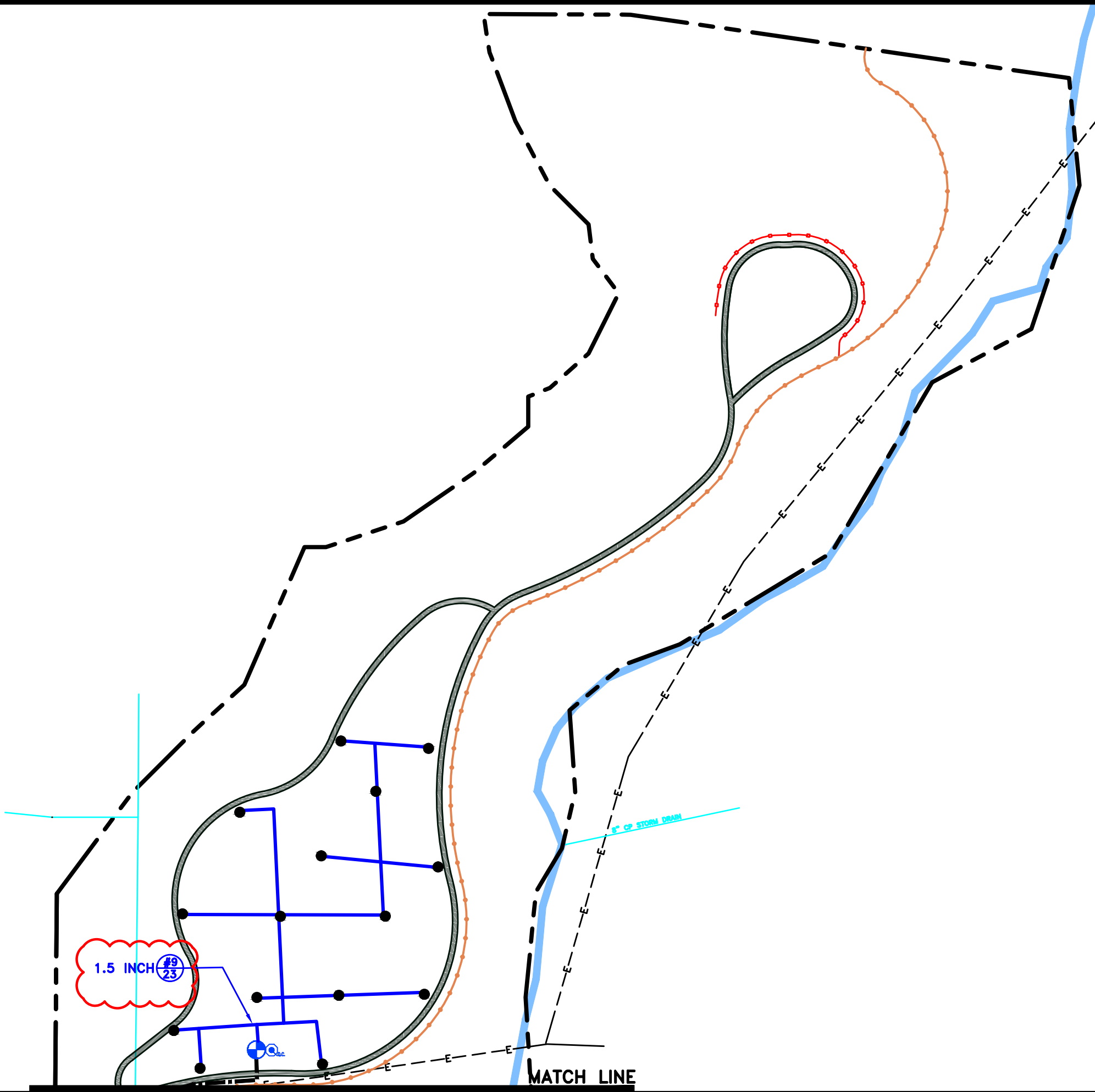
PROJECT OWNER:
**SALT LAKE CITY
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MARK	DATE	DESCRIPTION

PREPARED BY: #:
CONTRACT #: #:
PROJECT #: **231504**
FILE #: #:
DRAWING FILE: #:
DRAWN BY: **S. DAVENPORT**
CHECKED BY: **C. SANDS**
COPYRIGHT: #:

SHEET TITLE:
**LANDSCAPE IRRIGATION
PLAN**

SHEET IDENTIFIER:
LI102
BINDING
ORDER **11**

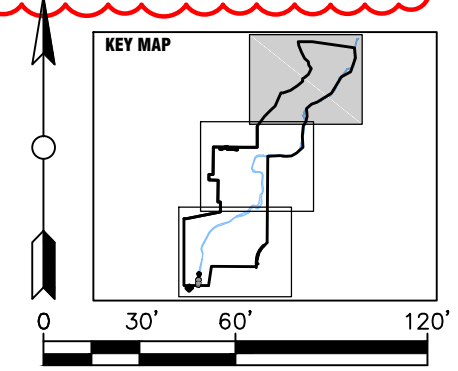


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- ⊕ VALVE NO. 28 GPMS

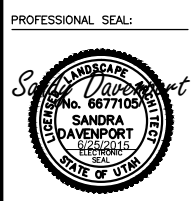
IRRIGATION NOTES

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Phone: (801)364-4785



PROJECT IDENTIFICATION:

**WASATCH HOLLOW
PRESERVE
PHASE II RIPARIAN
RESTORATION**

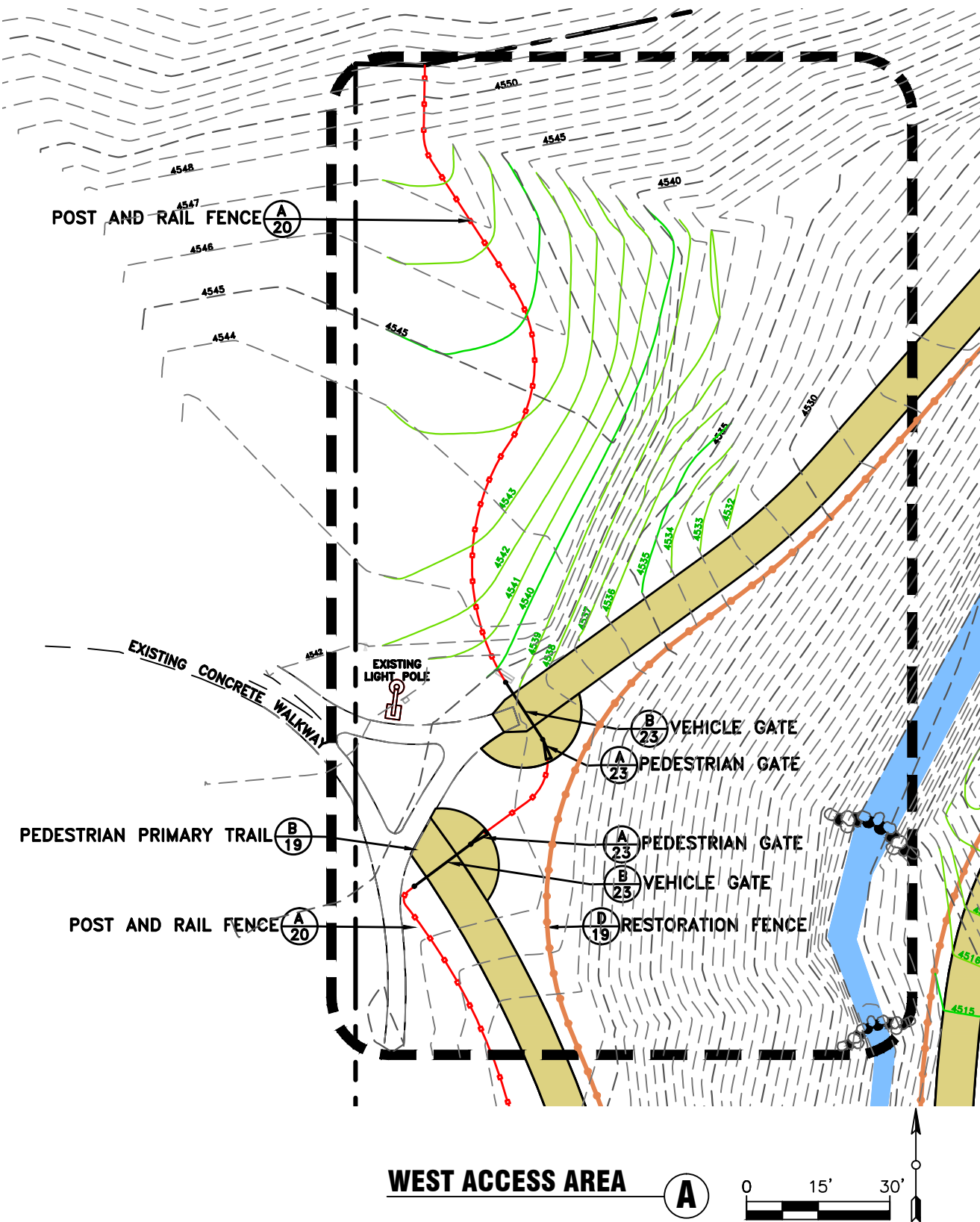
PROJECT OWNER:
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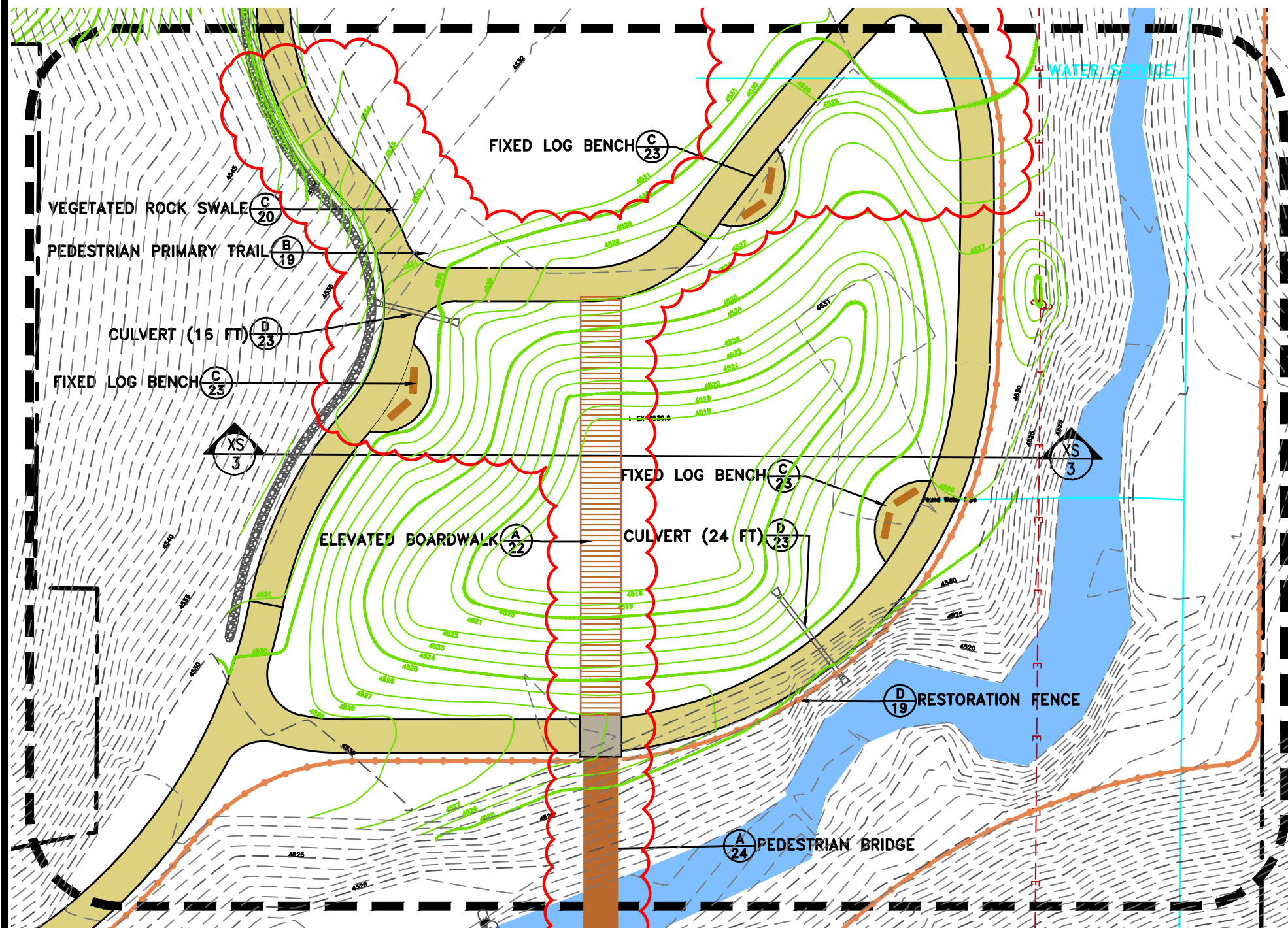
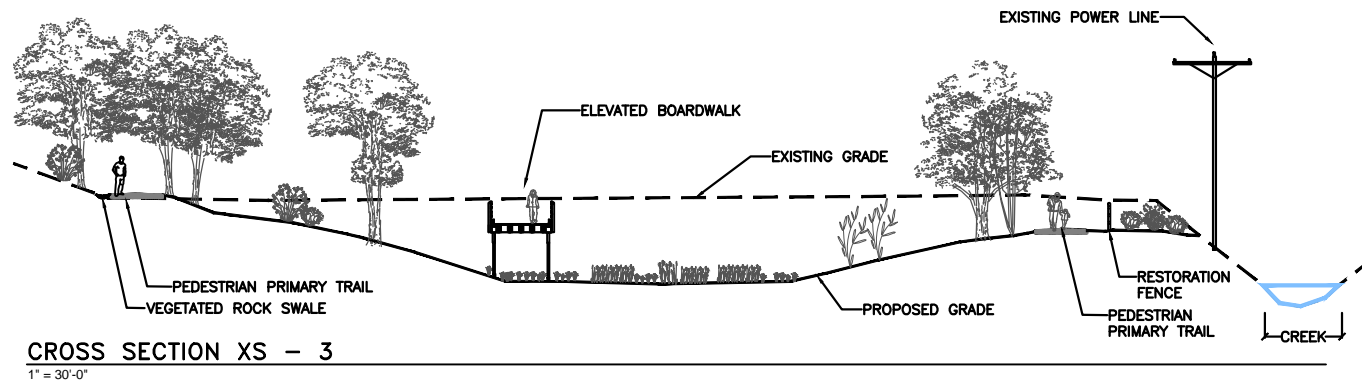
MARK	DATE	DESCRIPTION

PREPARED BY: **S. DAVENPORT**
CONTRACT #: **231504**
PROJECT #: **231504**
FILE #: **231504**
DRAWING FILE: **S. DAVENPORT**
CHECKED BY: **C. SANDS**
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SHEET TITLE:
**LANDSCAPE IRRIGATION
PLAN**

SHEET IDENTIFIER:
LI103
BINDING ORDER **12**





LEGEND

- PROJECT BOUNDARY
- EMIGRATION CREEK
- EXISTING WATER LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING FENCE
- EAST ACCESS DRIVE
- PROPOSED PRIMARY TRAIL
- PROPOSED SECONDARY TRAIL
- PROPOSED POST & RAIL FENCE
- PROPOSED RESTORATION FENCE
- PROPOSED LIMESTONE CRUSHER FINES SURFACE
- PROPOSED ROCK LINED SWALE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED ROCK WEIR

WETLAND AREA NOTES

1. THIS AREA HAS BEEN ARTIFICIALLY FILLED WITH BOTH SUITABLE AND UNSUITABLE BACKFILL MATERIAL AND IS LIKELY TO CONTAIN CONSTRUCTION WASTE THAT WILL NEED TO BE REMOVED AND DISPOSED OF OFF-SITE.
2. ORAL HISTORIES SUGGEST A NATURAL SPRING ONCE EXISTED AT THIS LOCATION. THE DESIGN INTENT OF THIS AREA IS TO UNEARTH THE NATURAL SPRING AND USE IT TO CREATE THE WETLAND.
3. ADJUST GRADING AS NECESSARY WHEN ORIGINAL TOPOGRAPHY IS ENCOUNTERED (E.G. LESS EXCAVATION) AND WHEN UNSUITABLE FILL IS ENCOUNTERED (E.G. MORE EXCAVATION).

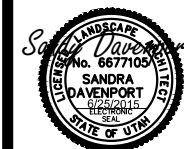
PREPARED BY:



PREPARED BY CONSULTANTS:

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Phone: (801)364-4785

PROFESSIONAL SEAL:



PROJECT IDENTIFICATION:

**WASATCH HOLLOW
PRESERVE
PHASE II RIPARIAN
RESTORATION**

PROJECT OWNER:

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MARK DATE DESCRIPTION

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SHEET TITLE:

LARGE SCALE VIEW

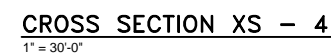
SHEET IDENTIFIER:

LS404
BINDING ORDER 16
















WETLAND AREA

A

0 15' 30'



LEGEND

- | | |
|---|--|
|  | PROJECT BOUNDARY |
|  | EMIGRATION CREEK |
|  | EXISTING WATER LINE |
|  | EXISTING OVERHEAD POWER LINE |
|  | EXISTING FENCE |
|  | EAST ACCESS DRIVE |
|  | PROPOSED PRIMARY TRAIL |
|  | PROPOSED SECONDARY TRAIL |
|  | PROPOSED POST & RAIL FENCE |
|  | PROPOSED RESTORATION FENCE |
|  | PROPOSED LIMESTONE CRUSHER FINES SURFACE |
|  | PROPOSED ROCK LINED SWALE |
|  | EXISTING CONTOUR |
|  | PROPOSED CONTOUR |
|  | PROPOSED ROCK WEIR |

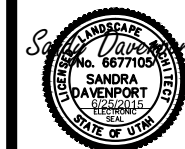
PREPARER:



PREPARER CONSULTANTS:

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PROFESSIONAL SEAL:



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PRESERVE
PHASE II RIPARIAN
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PROJECT OWNER:

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[illegible]

PREPARER #:

CONTRACT #:

PROJECT #: 231504

FILE #

DRAWING FILE:

DRAWN BY: S. DAVENPORT

CHECKED BY:

SHEET TITLE:

LARGE SCALE VIEW

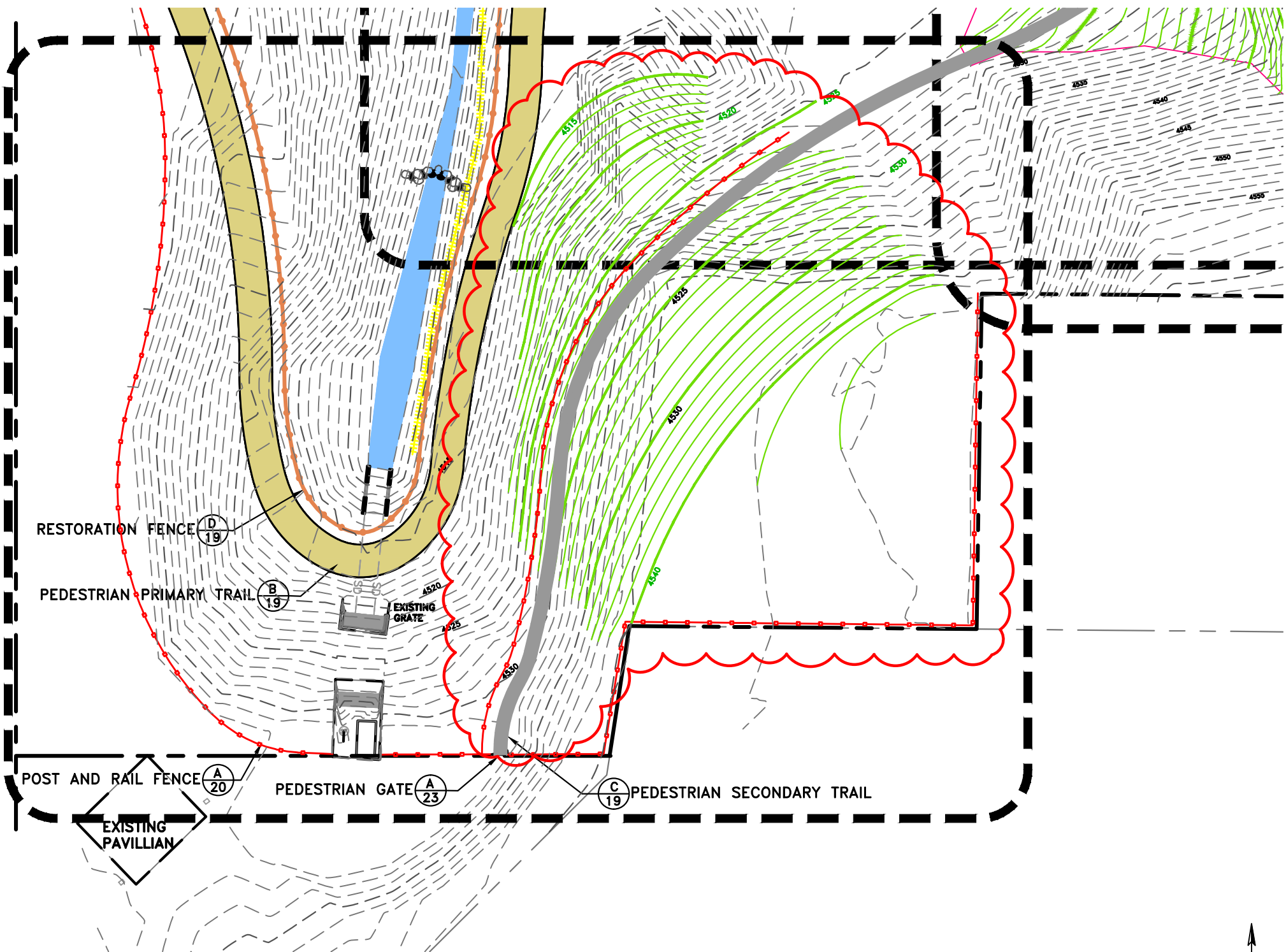
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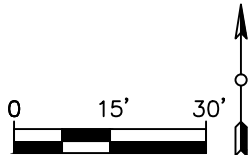
**BINDING
ORDER**

17





SOUTH ACCESS AREA **A**



LEGEND

- PROJECT BOUNDARY
- EMIGRATION CREEK
- EXISTING WATER LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING FENCE
- EAST ACCESS DRIVE
- PROPOSED PRIMARY TRAIL
- PROPOSED SECONDARY TRAIL
- PROPOSED POST & RAIL FENCE
- PROPOSED RESTORATION FENCE
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- PROPOSED ROCK LINED SWALE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED ROCK WEIR

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PROFESSIONAL SEAL:

Sandra Davenport
No. 6677105
SANDRA DAVENPORT
UTAH LANDSCAPE ARCHITECT
STATE OF UTAH

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PREPARED BY: **S. DAVENPORT**

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CHECKED BY: **C. SANDS**

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SHEET TITLE:

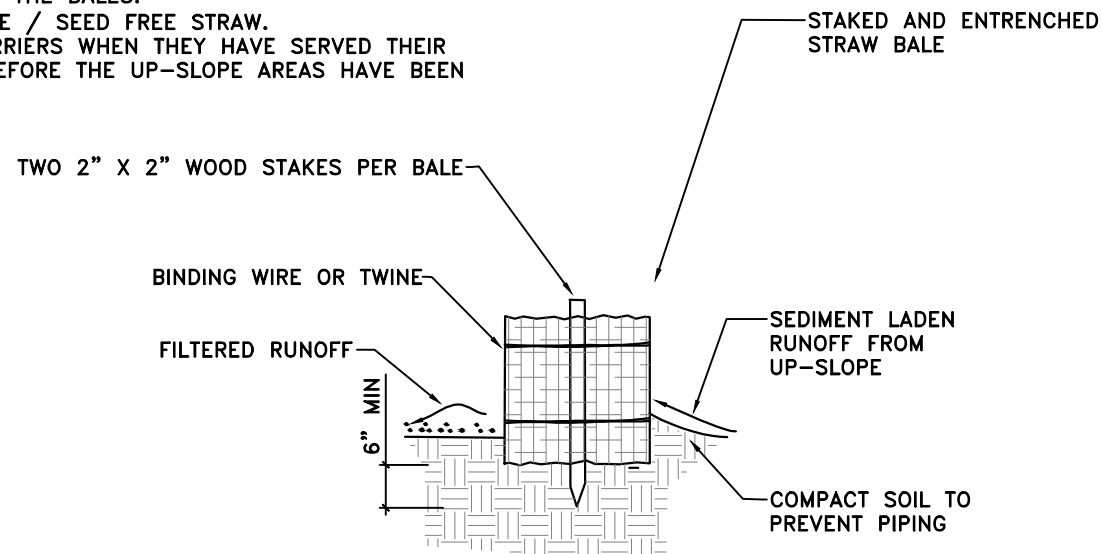
LARGE SCALE VIEW

SHEET IDENTIFIER:

LS406

BINDING ORDER **18**

- NOTES:
1. PLACE BALES IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING EACH OTHER.
 2. FILL THE GAPS BETWEEN BALES WITH STRAW TO PREVENT WATER FROM ESCAPING BETWEEN THE BALES.
 3. USE CERTIFIED WEED FREE / SEED FREE STRAW.
 4. REMOVE STRAW BALE BARRIERS WHEN THEY HAVE SERVED THEIR USEFULNESS, BUT NOT BEFORE THE UP-SLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.



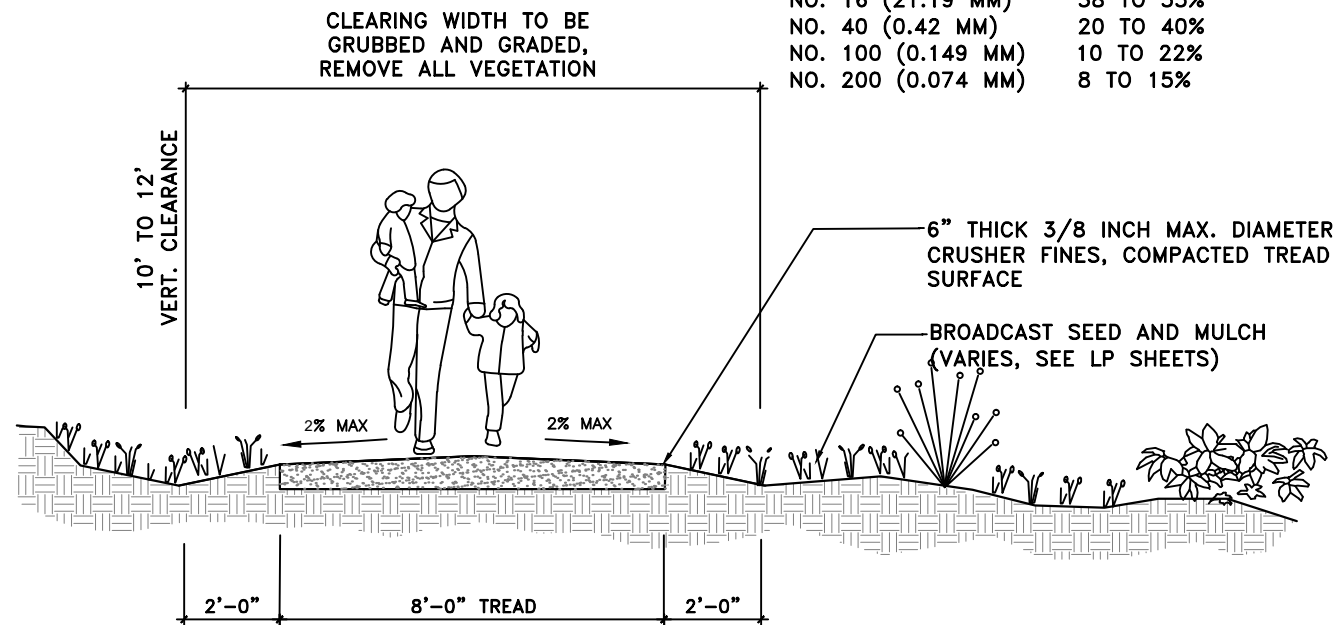
STRAW BALE BARRIER (TEMPORARY)

NOT TO SCALE

A

- NOTES:
- THE CONTRACTOR SHALL FURNISH AND DELIVER LIMESTONE CRUSHER FINES COMPOSED OF LIMESTONE ROCK CRUSHED INTO IRREGULAR AND ANGULAR PARTICLES. NO ROUNDED MATERIAL IS ACCEPTABLE. THE LIMESTONE CRUSHER FINES SHALL MEET THE FOLLOWING GRADATION SPECIFICATION:

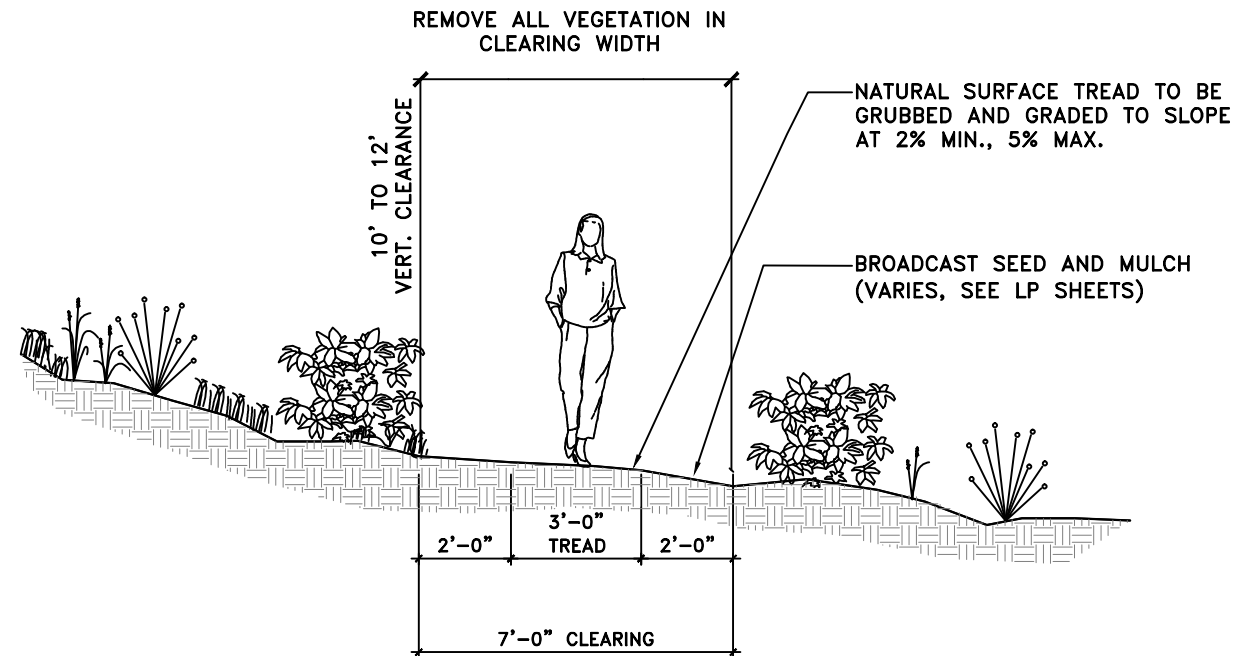
SIEVE SIZE	PERCENT PASSING
3/8-INCH (9.52MM)	100%
NO. 4 (4.76 MM)	75 TO 92%
NO. 8 (2.38 MM)	50 TO 72%
NO. 16 (21.19 MM)	38 TO 55%
NO. 40 (0.42 MM)	20 TO 40%
NO. 100 (0.149 MM)	10 TO 22%
NO. 200 (0.074 MM)	8 TO 15%



PEDESTRIAN PRIMARY TRAIL

1" = 4'-0"

B

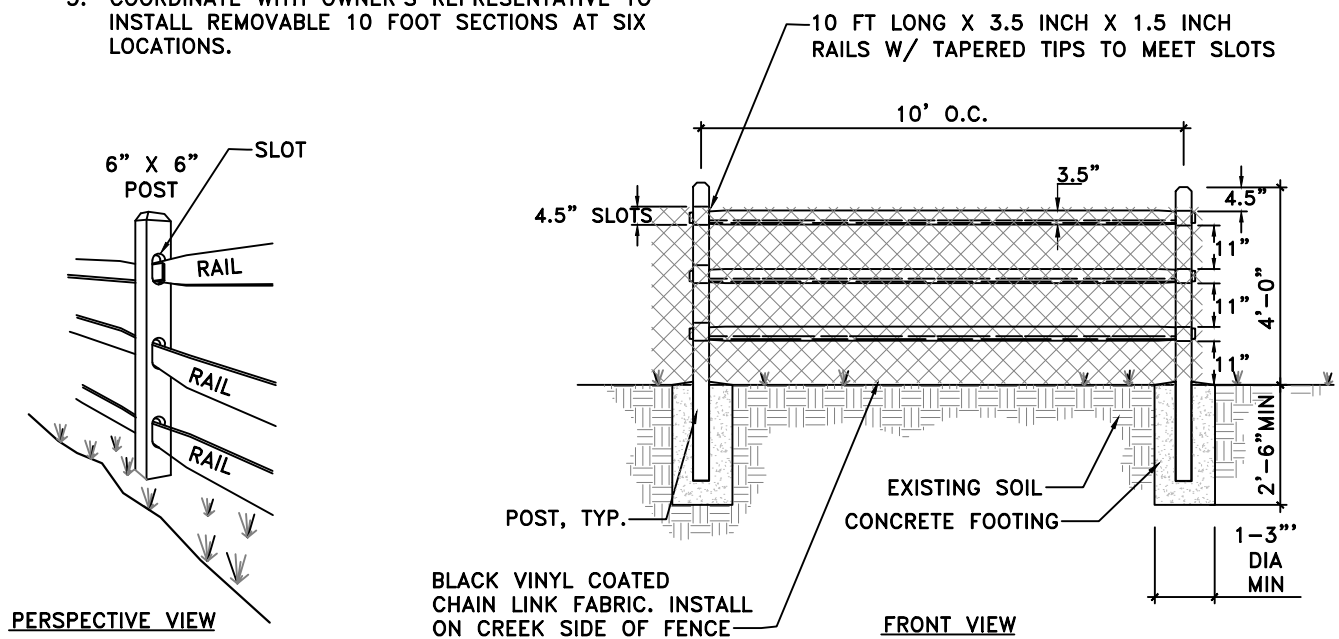


PEDESTRIAN SECONDARY TRAIL

1" = 4'-0"

C

- NOTES:
1. ALL WOOD FOR RESTORATION FENCE TO BE PRESSURE TREATED.
 2. END POST SHALL BE TERMINAL POST.
 3. COORDINATE WITH OWNER'S REPRESENTATIVE TO INSTALL REMOVABLE 10 FOOT SECTIONS AT SIX LOCATIONS.



RESTORATION FENCE

1" = 4'-0"

D

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No. 6677105

SANDRA DAVENPORT

UTAH STATE BOARD OF PROFESSIONAL ENGINEERS

STATE OF UTAH

PROJECT IDENTIFICATION:

WASATCH HOLLOW

PRESERVE

PHASE II RIPARIAN

RESTORATION

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ENGINEERING

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PROJECT #: 231504

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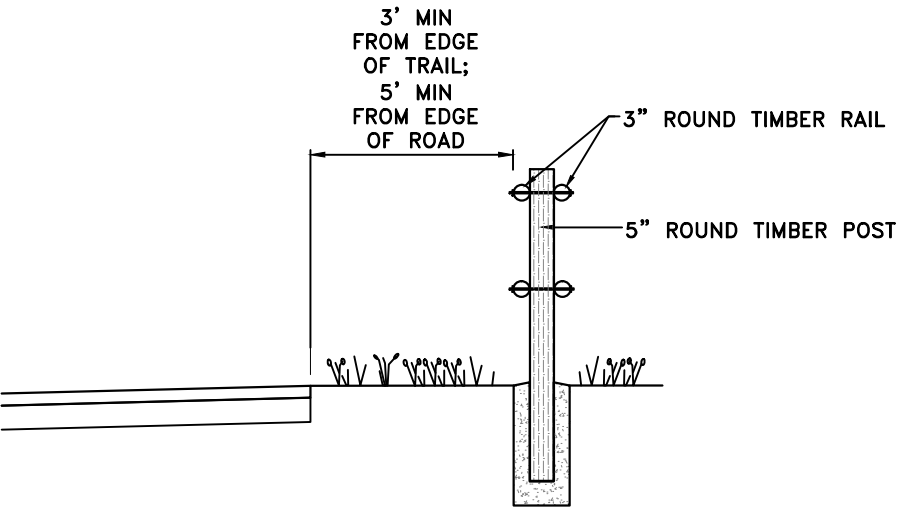
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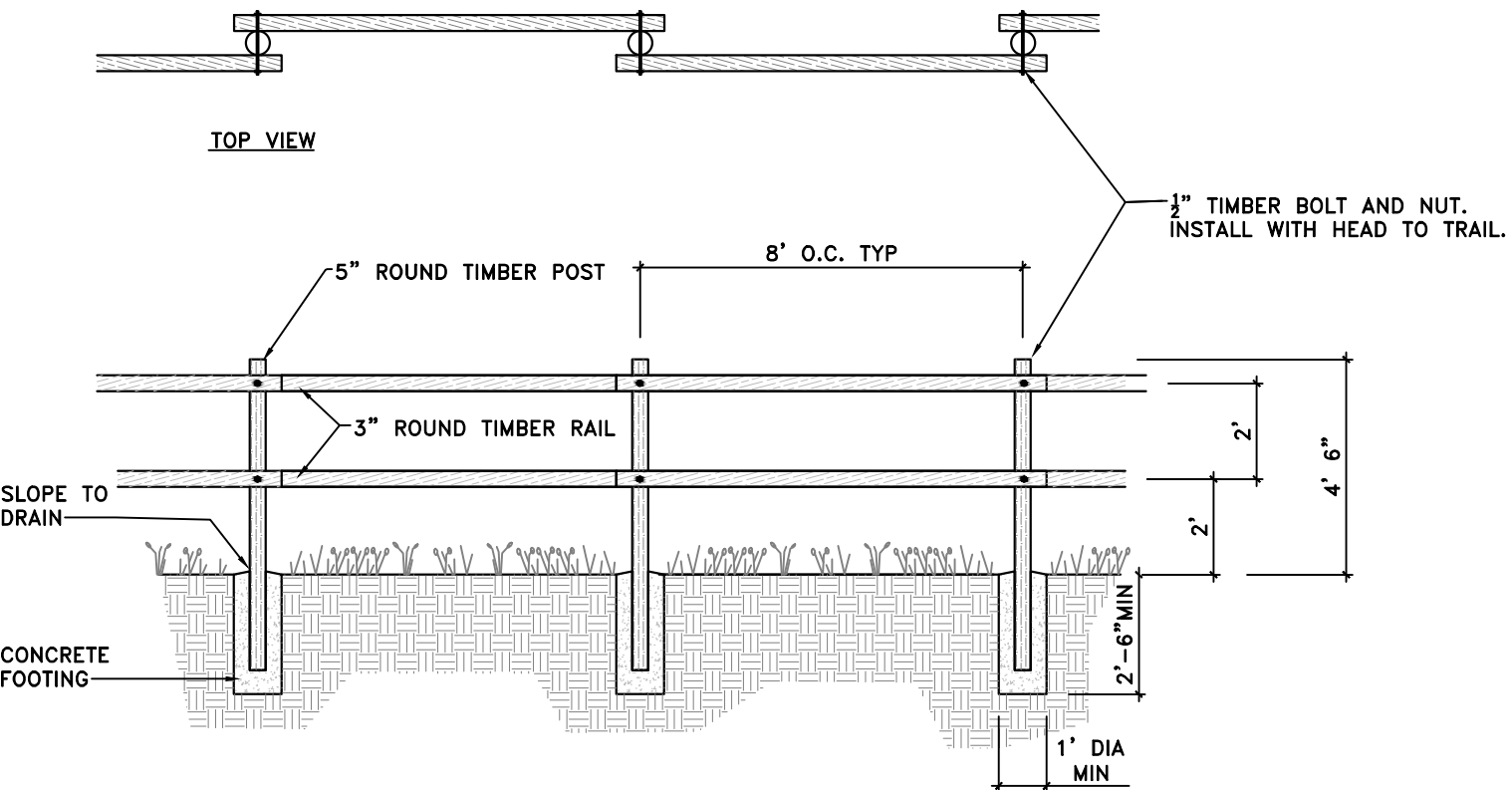
BINDING ORDER

19

- NOTES:
1. ALL WOOD FOR POST AND RAIL FENCE TO BE PRESSURE TREATED.
 2. PRE-DRILL HOLES TO PREVENT SPLITTING DURING CONSTRUCTION.
 3. USE ONLY GALVANIZED HARDWARE.



POST SIDE VIEW

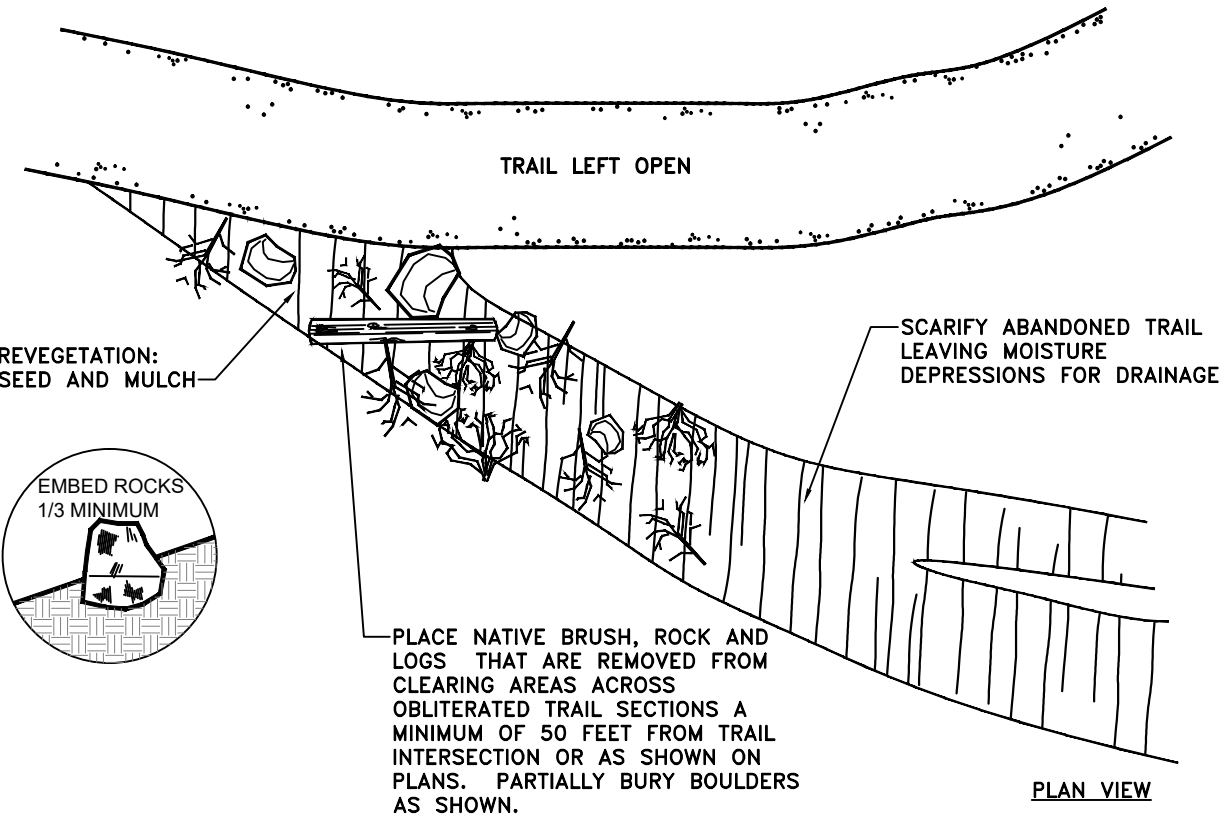


FRONT VIEW

POST AND RAIL FENCE

1" = 4'-0"

A

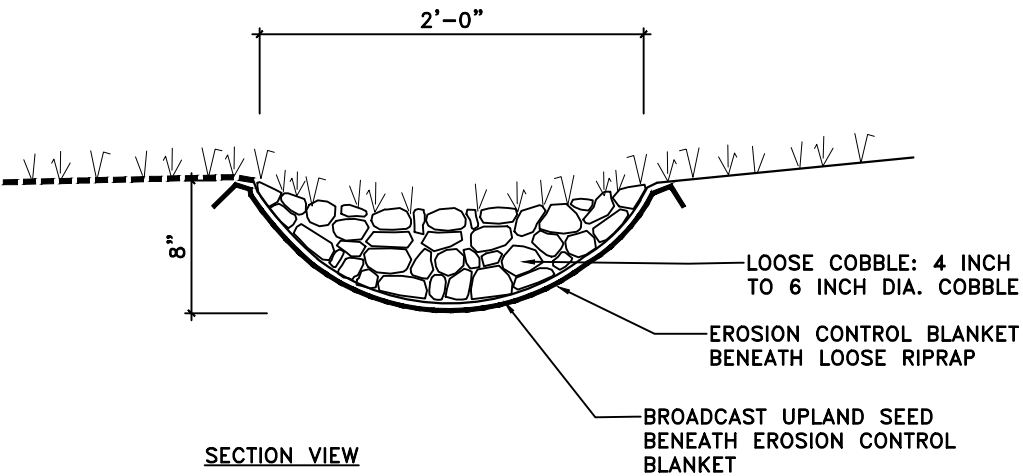


PLAN VIEW

DECOMMISSION TRAIL

NOT TO SCALE

B



SECTION VIEW

VEGETATED ROCK SWALE

1" = 1'-0"

C

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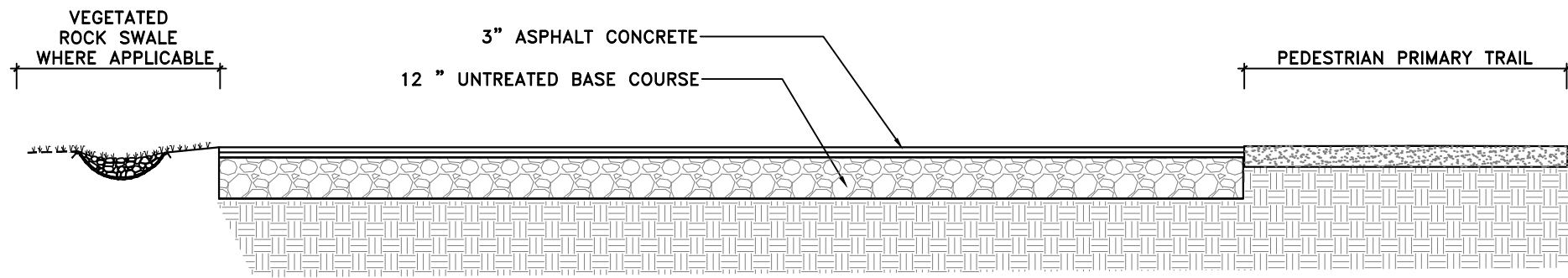
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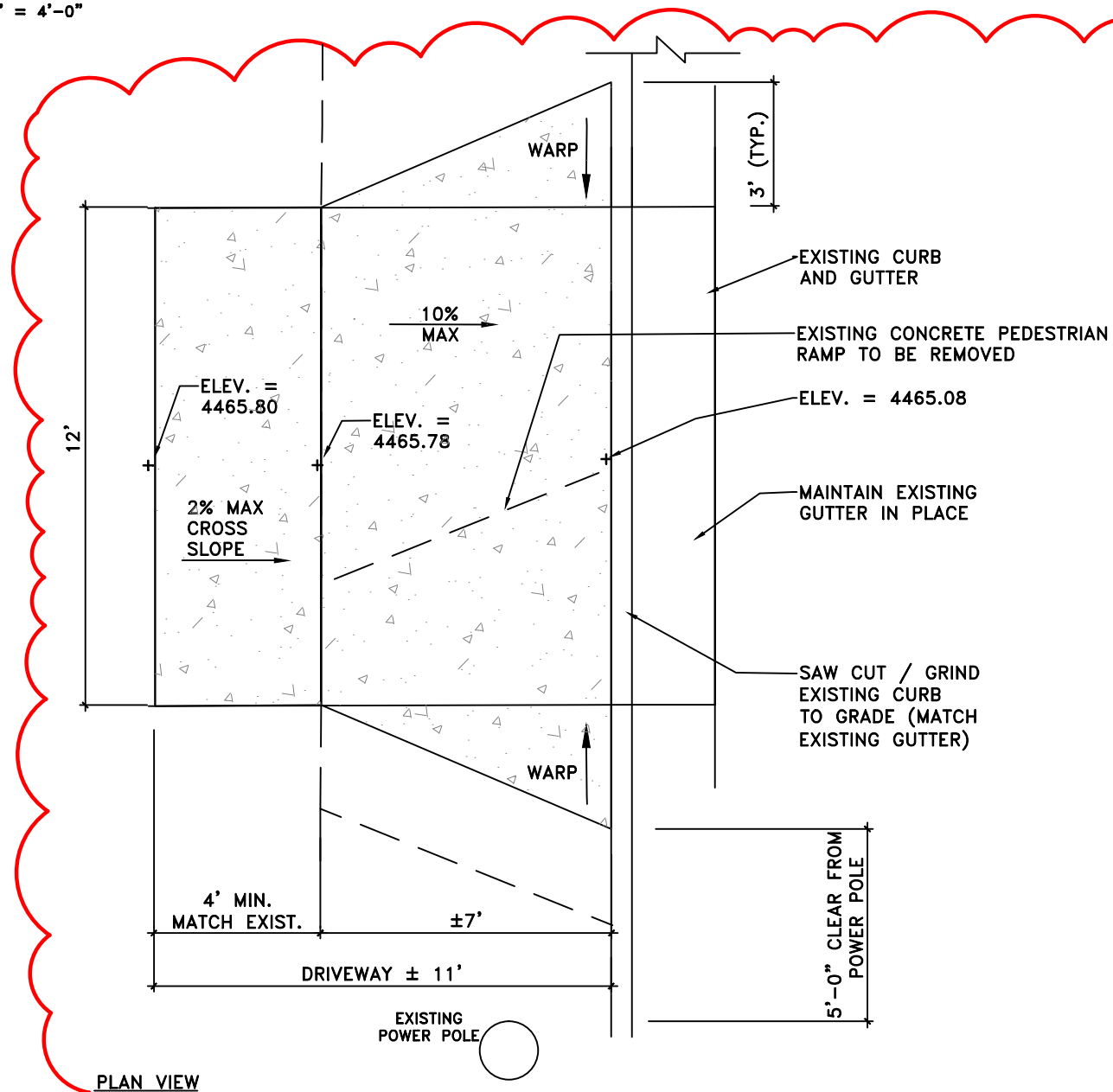
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SHEET IDENTIFIER:
DT502
BINDING
ORDER 20



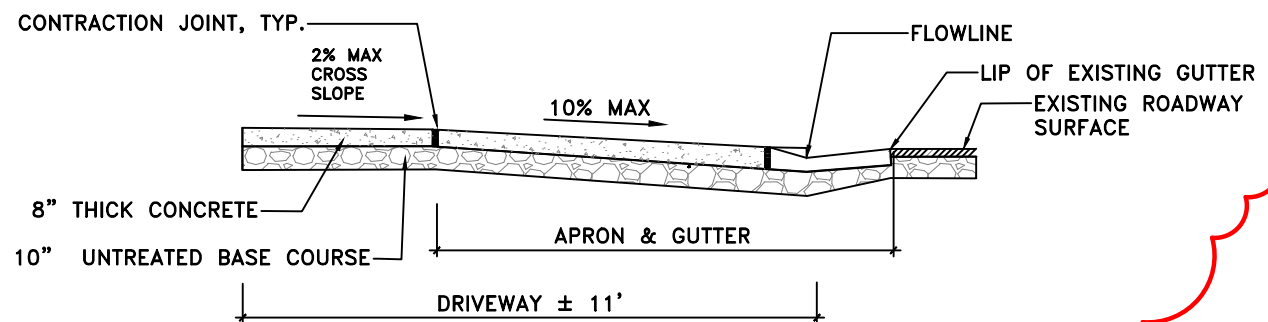
SECTION VIEW
 ASPHALT PAVING
 1" = 4'-0"

- ASPHALT CONCRETE NOTES:
1. UNTREATED BASE COURSE: SHALL BE TYPE II AS PER APWA SECTION 32 11 23. PLACE FILL IN NO GREATER THAN 6 INCH LIFTS AFTER COMPACTION. COMPACT TO NO LESS THAN 95% MAXIMUM DRY DENSITY.
 2. CONSTRUCT ROAD MIX BITUMINOUS SURFACE COURSE ONLY WHEN AIR TEMPERATURE IN THE SHADE AND ROAD BED TEMPERATURE ARE GREATER THAN 50 DEGREES FAHRENHEIT.
 3. ASPHALT CONCRETE SHALL BE AC-20-DM-3/4 AS PER APWA SECTION 32 12 05.



PLAN VIEW
 FLARED DRIVEWAY
 1" = 4'-0"

- NOTES:
1. CONSTRUCT FLARED DRIVEWAY ACCESS IN ACCORDANCE WITH APWA STANDARD PLAN #221.
 2. REMOVE EXISTING SIDEWALK AND REPLACE BACK TO NEAREST EXPANSION JOINT.
 3. EXPANSION JOINTS TO BE PLACED WHEN NEW CONCRETE ABUTS EXISTING CONCRETE.



SECTION VIEW

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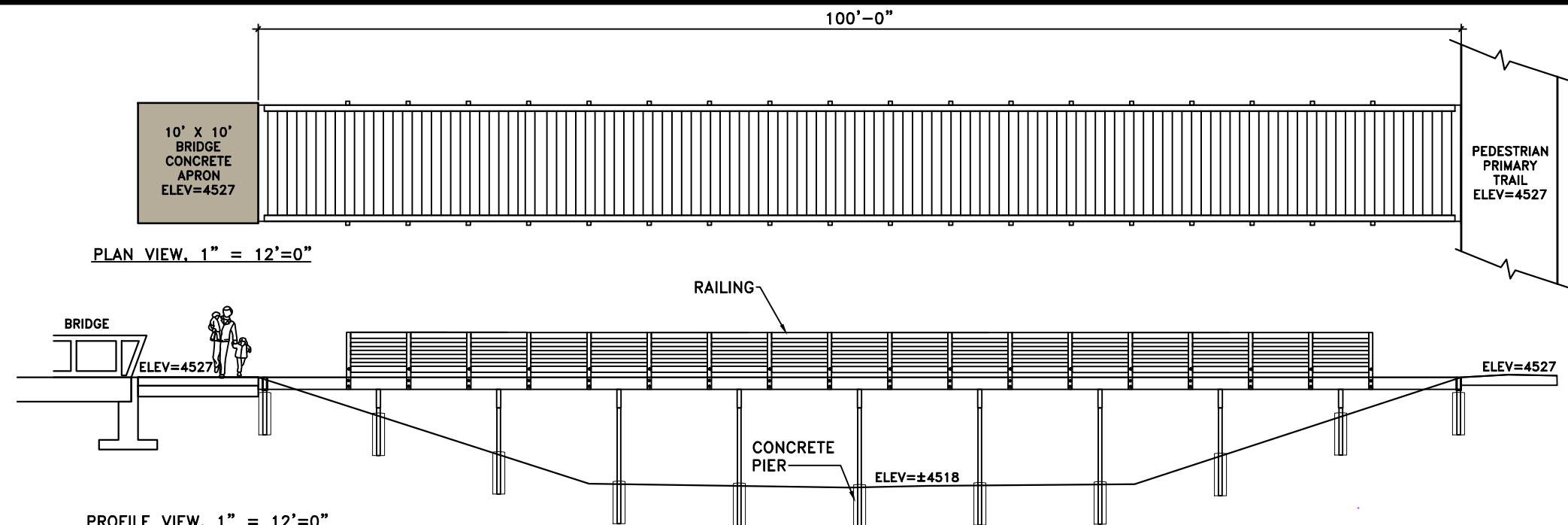
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SHEET IDENTIFIER:

DT503

BINDING ORDER **21**

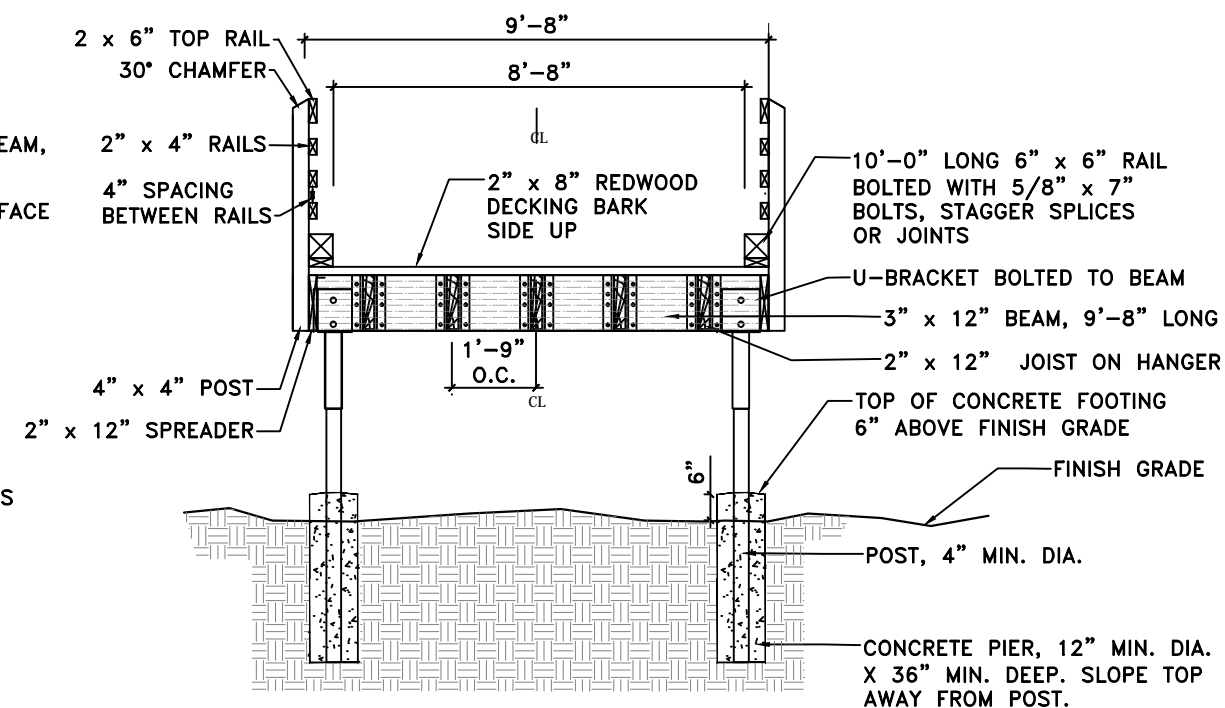
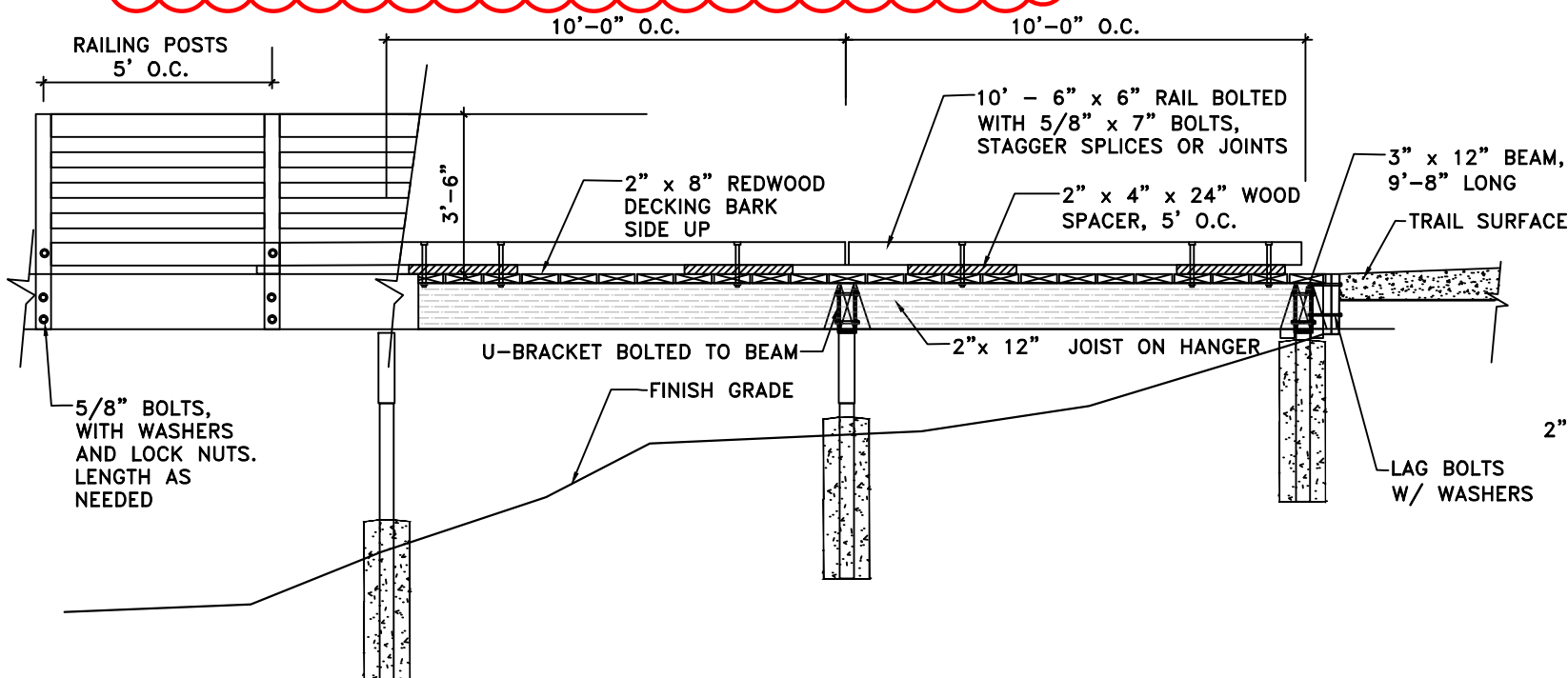
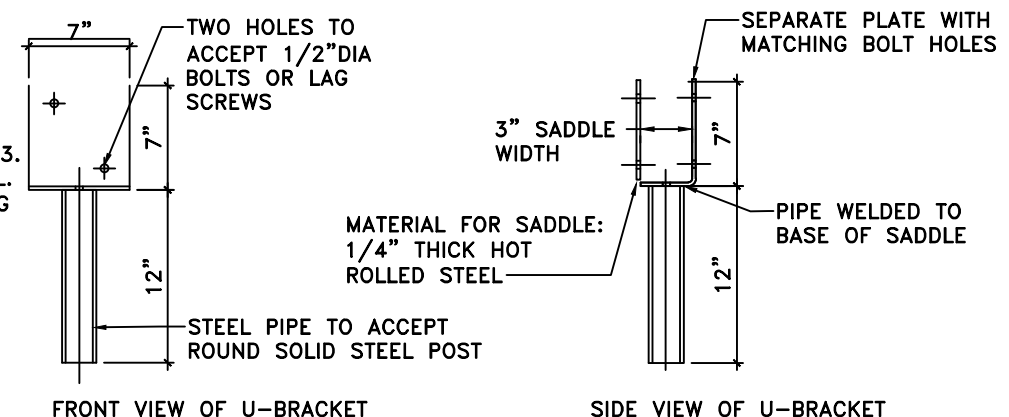


ELEVATED BOARDWALK NOTES:

1. PRE-DRILL HOLES TO PREVENT SPLITTING DURING CONSTRUCTION. ATTACH DECKING USING GALVANIZED SECURITY SCREWS & HARDWARE (ALL WOODEN MEMBERS SHALL BE BOLTED OR SCREWED TOGETHER. NO NAIL CONNECTIONS).
2. USE ONLY GALVANIZED POSTS, JOIST HANGERS, "U" BRACKETS AND HARDWARE.
3. SITE SOIL PROPERTIES ARE ASSUMED TO SUPPORT FOUNDATION LOADS. CONTRACTOR SHALL PROVIDE GEOTECHNICAL REPORT TO THE ENGINEER INDICATING THE SITE SOIL PROPERTIES THAT CAN SUPPORT FOUNDATION LOADS PRIOR TO BEGINNING CONSTRUCTION.
4. ALL WOOD MEMBERS OR ELEMENTS ARE TO BE PRESSURE TREATED NO. 2 GRADE DOUGLAS-FIR OR LARCH AS PER APWA STANDARDS EXCEPT FOR THE BOARDWALK DECKING WHICH IS TO BE DECK HEART GRADE REDWOOD.

U-BRACKET NOTES:

1. HOT DIPPED GALVANIZED PER ASTM A-153.
2. MATERIAL FOR SADDLE HOT ROLLED STEEL.
3. BOLTS 1/2" DIA HEX HEAD 4-1/2" LONG WITH NUT AND LOCKWASHERS.
4. 10000 LB MAX LOAD COMPRESSION ONLY
5. BEAM SADDLE FORMED FROM 1/4" THICK STEEL PLATE.



ELEVATED BOARDWALK (100'-0" LONG)

1" = 4'-0"

A

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PRESERVE
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RESTORATION**

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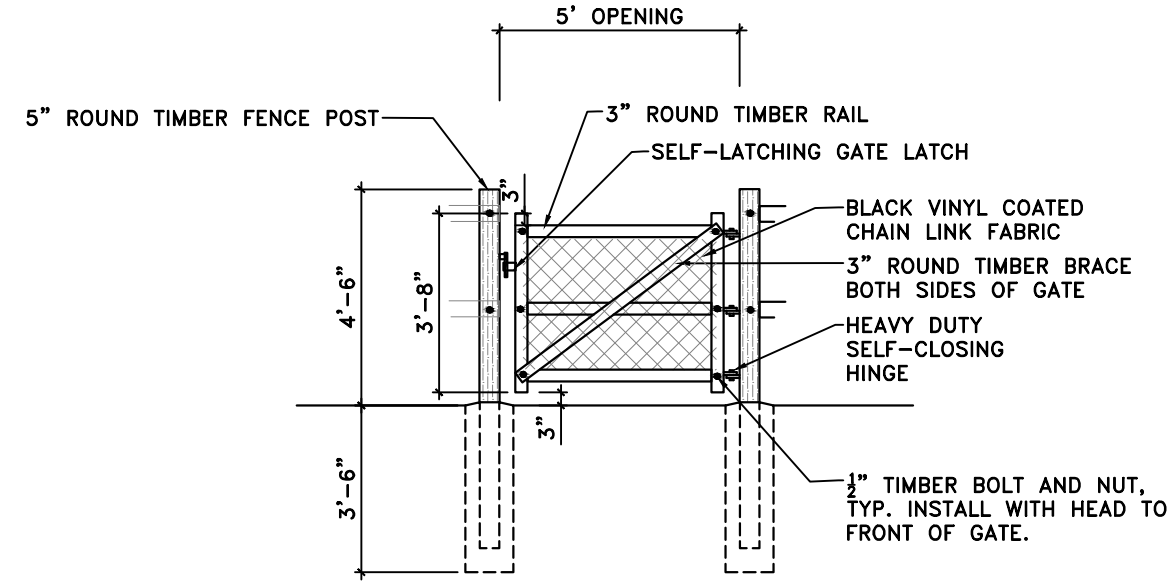
DETAILS

SHEET IDENTIFIER:

DT504

BINDING ORDER 22

- NOTES:
1. ALL WOOD FOR PEDESTRIAN GATE TO BE PRESSURE TREATED.
 2. PRE-DRILL HOLES TO PREVENT SPLITTING DURING CONSTRUCTION.
 3. USE ONLY GALVANIZED HARDWARE.

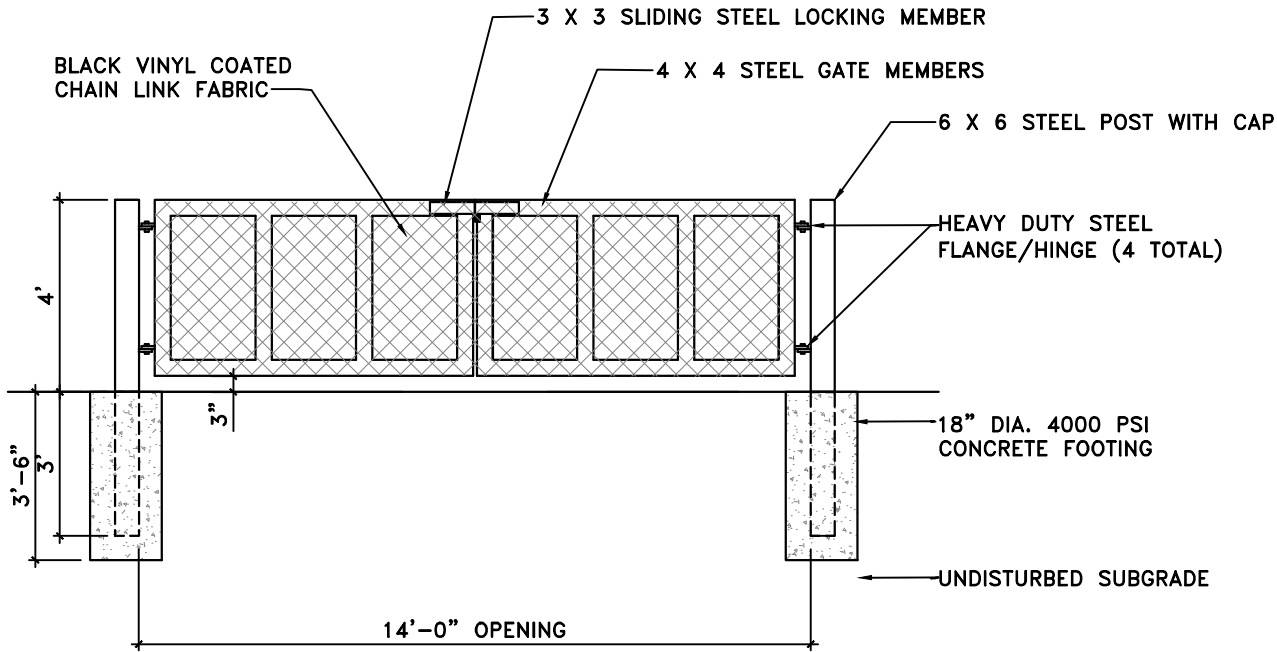


PEDESTRIAN GATE
1" = 4'-0"

SECTION/ELEVATION

A

- NOTES:
1. ALL VEHICLE GATE MEMBERS SHALL BE SCH. 40 TUBULAR STEEL. GRIND ALL WELDS SMOOTH.
 2. PRIME AND PAINT.
 3. PROVIDE SHOP DRAWINGS FOR OWNER REVIEW PRIOR TO FABRICATION.

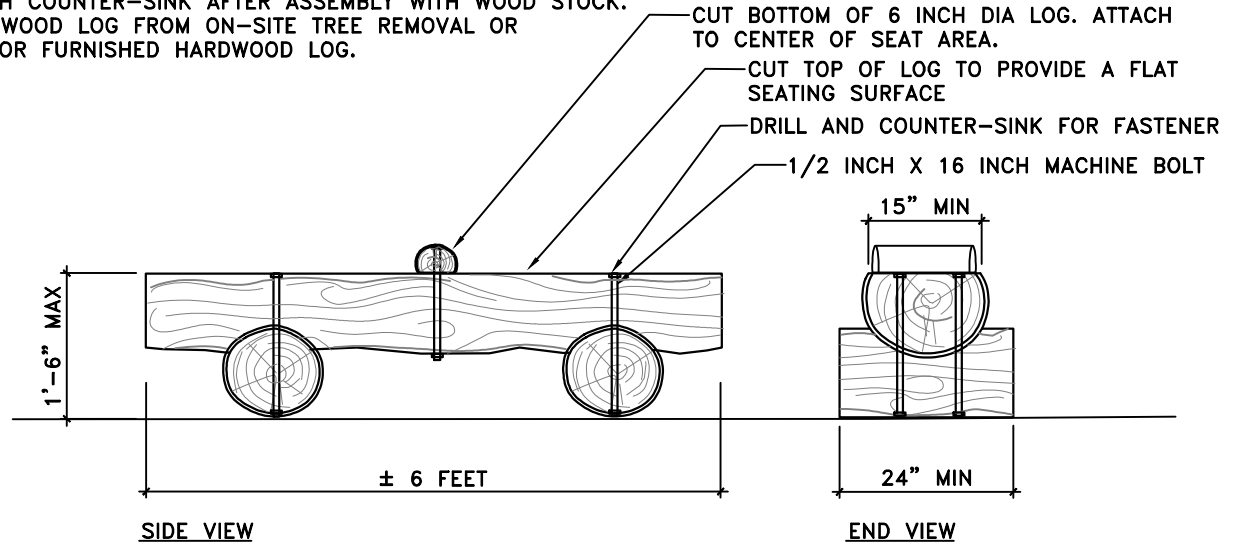


VEHICLE GATE
1" = 4'-0"

SECTION/ELEVATION

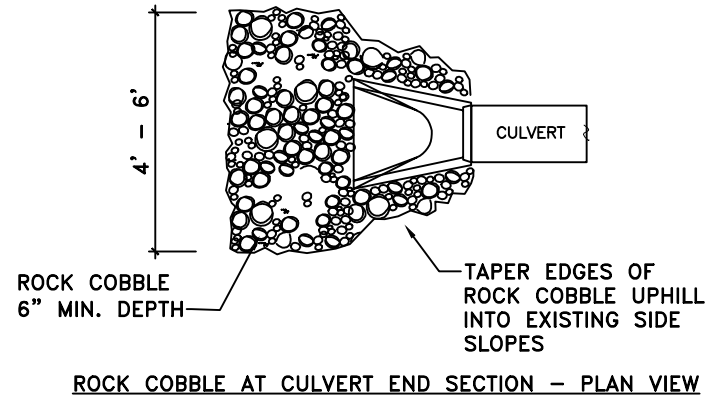
B

- NOTES:
1. USE TWO GALVANIZED MACHINE BOLTS FOR EACH SEAT AND FOOT CONNECTION.
 2. SPACE EACH END OF BOLT WITH GALVANIZED WASHERS.
 3. USE 1/2" GALVANIZED SELF LOCKING NUTS TO SECURE EACH BOLT.
 4. PLUG EACH COUNTER-SINK AFTER ASSEMBLY WITH WOOD STOCK.
 5. USE HARDWOOD LOG FROM ON-SITE TREE REMOVAL OR CONTRACTOR FURNISHED HARDWOOD LOG.

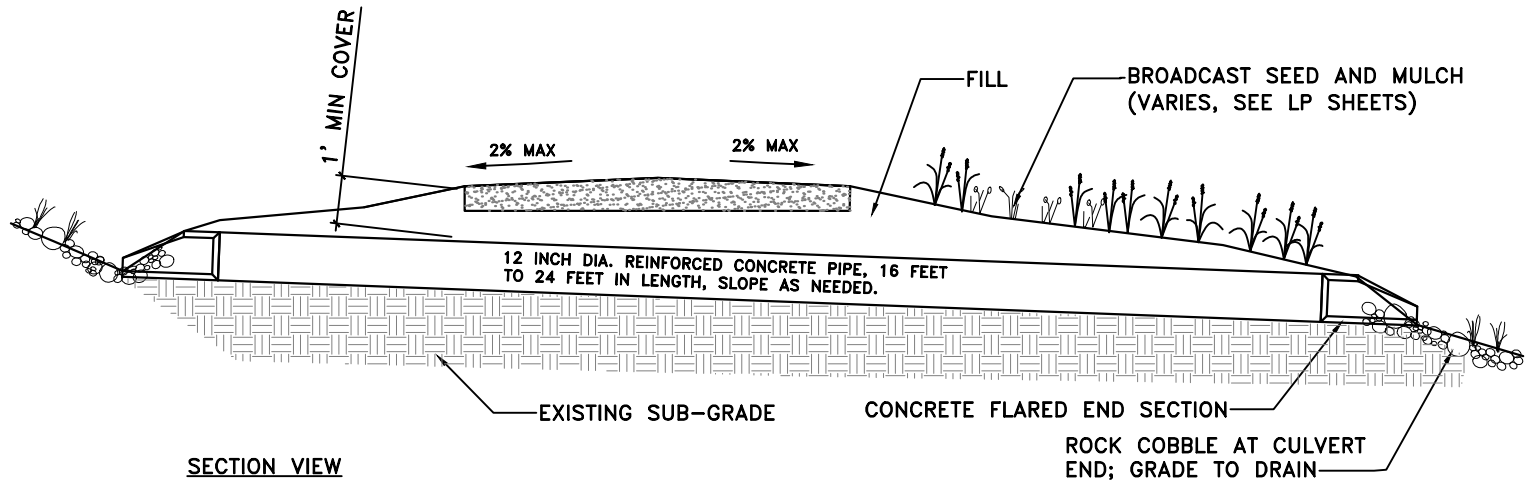


FIXED LOG BENCH
1" = 2'-0"

C



ROCK COBBLE AT CULVERT END SECTION - PLAN VIEW



CULVERT
NOT TO SCALE

D

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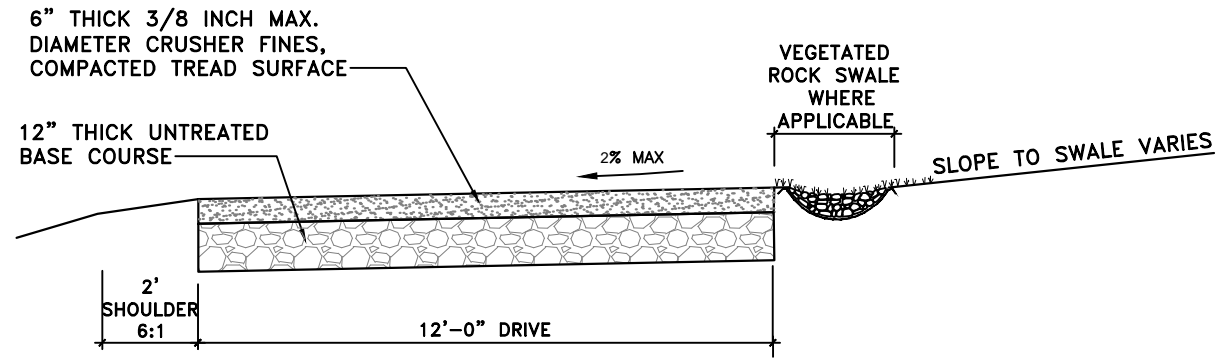
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SECTION VIEW

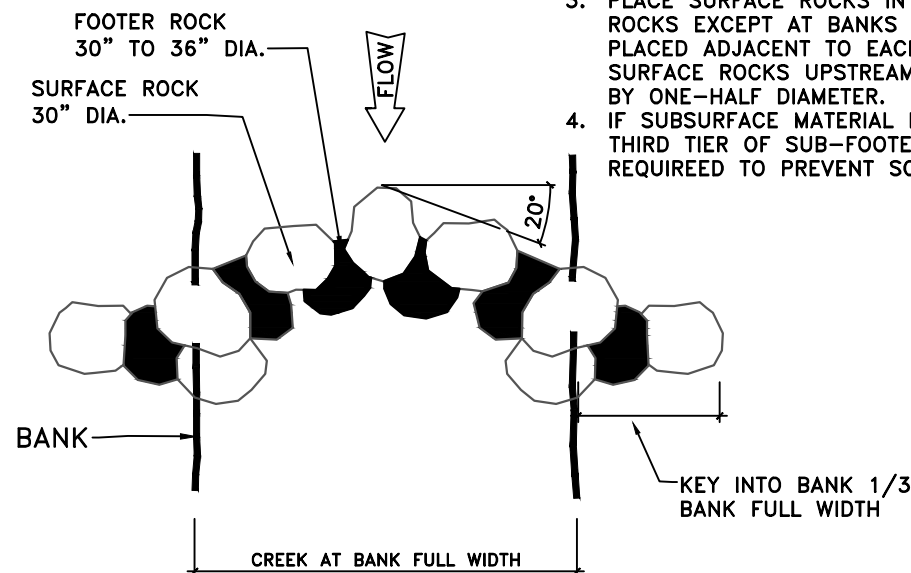
EAST ACCESS DRIVE

1" = 4'-0"

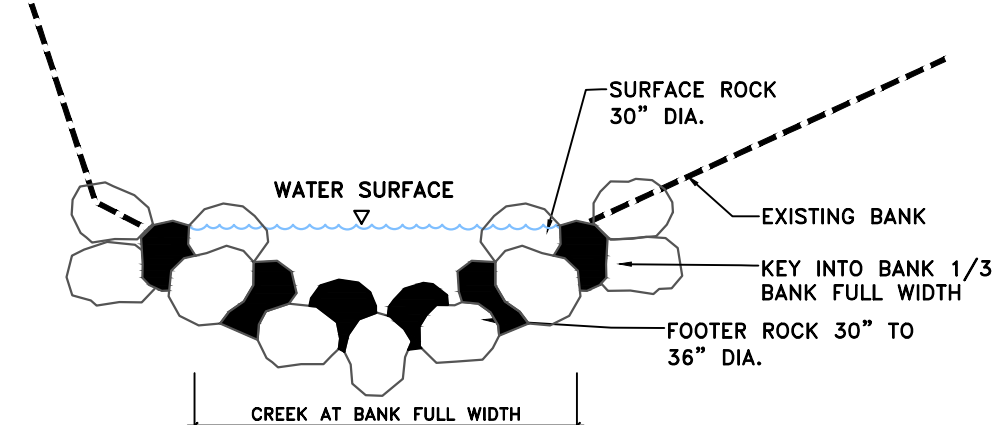
A

ROCK WEIR NOTES:

1. FOOTER ROCKS SHALL BE THE SAME SIZE OR LARGER THAN SURFACE ROCKS.
2. SEPARATE EACH FOOTER ROCK BY A DISTANCE OF 3" TO 6".
3. PLACE SURFACE ROCKS IN GAPS BETWEEN FOOTER ROCKS EXCEPT AT BANKS WHERE THEY SHALL BE PLACED ADJACENT TO EACH OTHER. OFFSET SURFACE ROCKS UPSTREAM FROM FOOTER ROCKS BY ONE-HALF DIAMETER.
4. IF SUBSURFACE MATERIAL IS FINE-GRANED, A THIRD TIER OF SUB-FOOTER ROCKS MAY BE REQUIRED TO PREVENT SCOUR.



PLAN VIEW

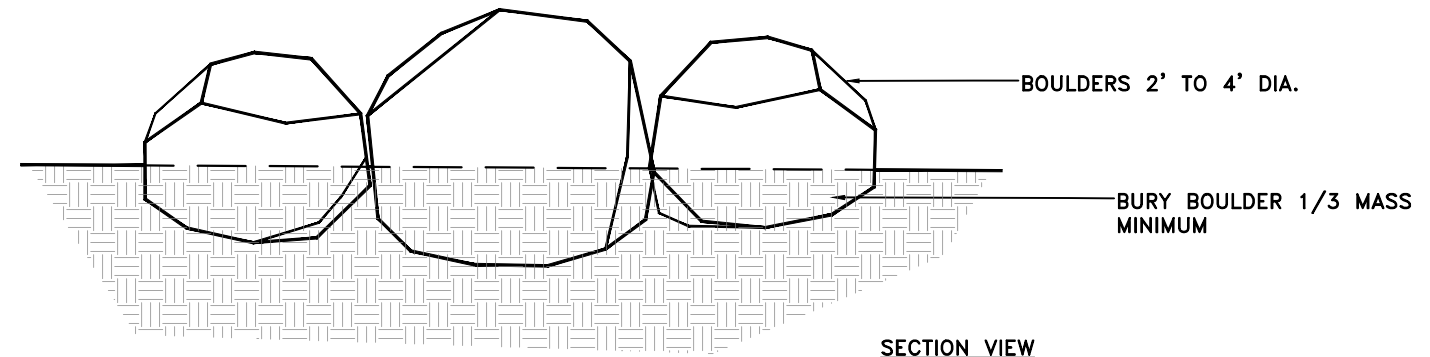


SECTION VIEW

ROCK WEIR

1" = 4'-0"

B



SECTION VIEW

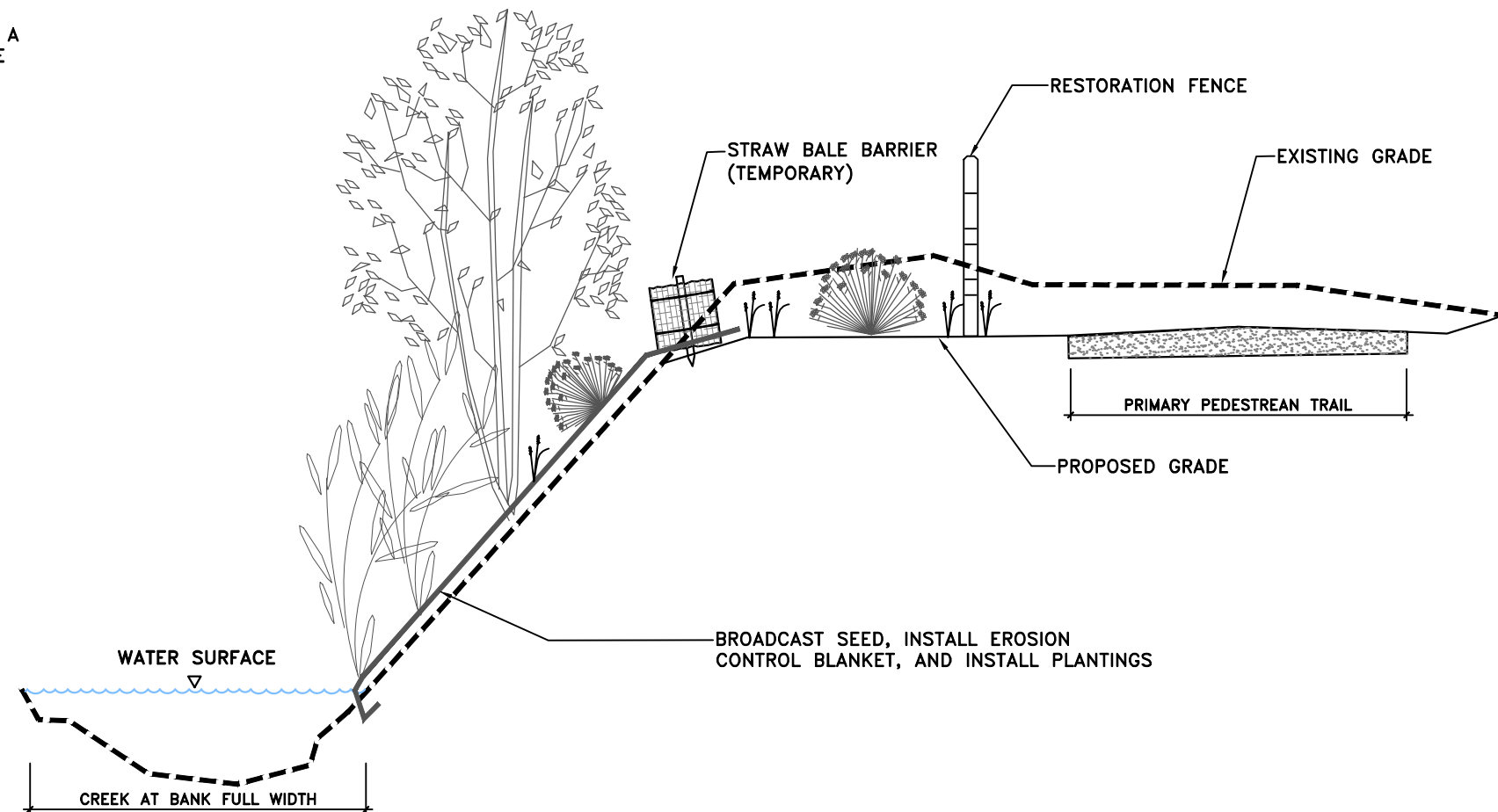
LANDSCAPE BOULDER PLACEMENT

NOT TO SCALE

C

NOTES:

1. USE SALVAGED BOULDERS FROM ON-SITE EXCAVATION.
2. STOCKPILE 100 ± BOULDERS FOR PROJECT USE.
3. SET ROCKS SO THEY SIT SECURELY AND ARE FITTED TOGETHER.
4. COORDINATE BOULDER PLACEMENT WITH OWNER'S REPRESENTATIVE.



SECTION VIEW

STREAM CHANNEL AND BANK AREA TYPICAL CROSS SECTION

1" = 4'-0"

D

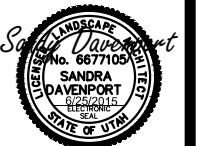
PREPARER:



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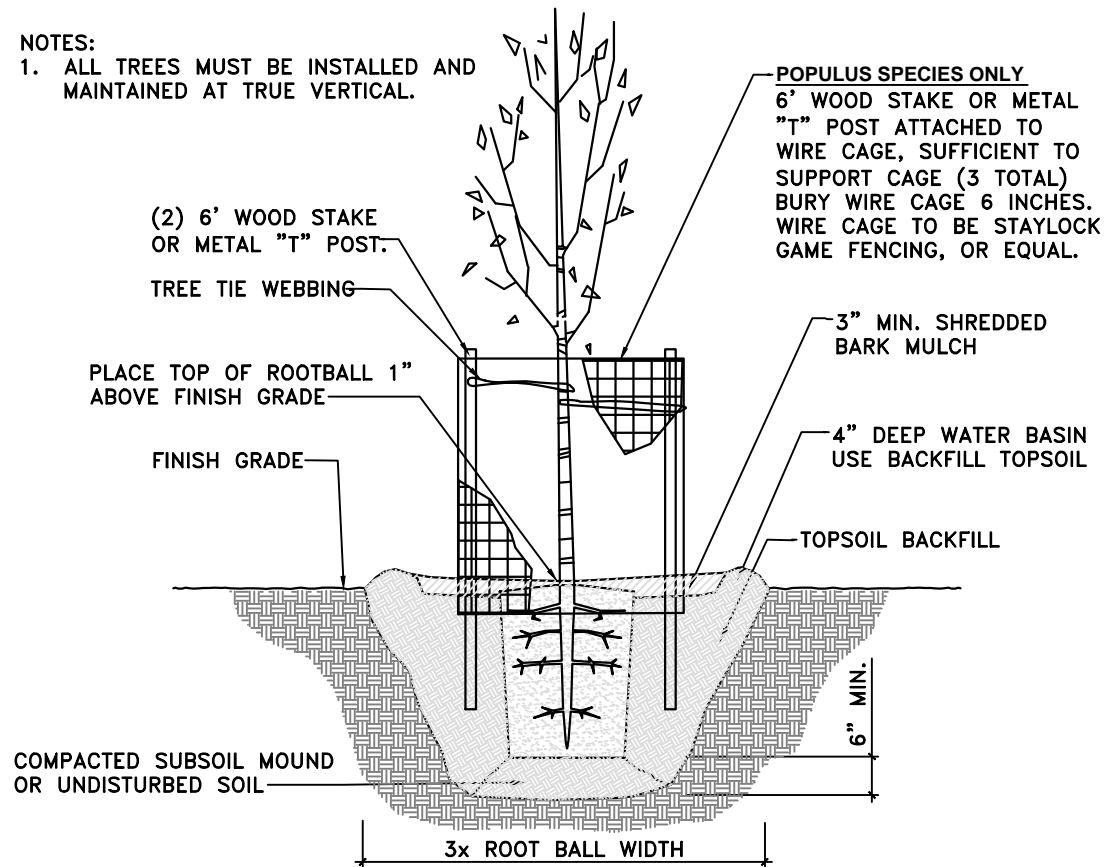
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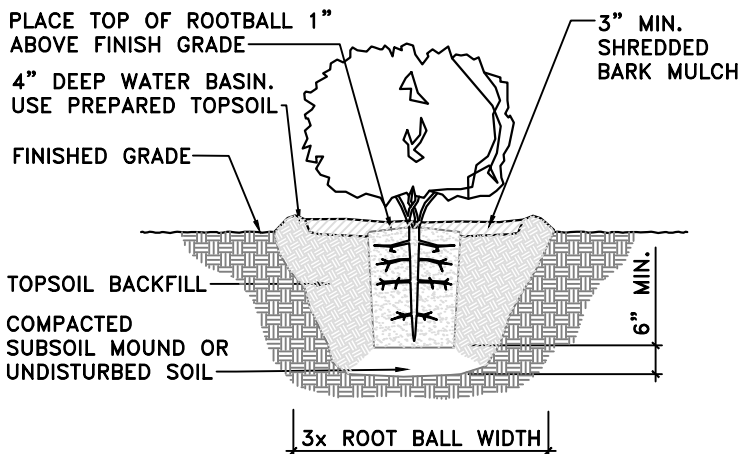
BINDING
ORDER

24

NOTES:
1. ALL TREES MUST BE INSTALLED AND MAINTAINED AT TRUE VERTICAL.



TREE PLANTING
NOT TO SCALE



SHRUB PLANTING
NOT TO SCALE

PLANTING LEGEND / SIZE / QUANTITIES

KEY TREE	BOTANICAL NAME / COMMON NAME	SIZE	QTY.
AG	ACER GRANDIDENTATUM / BIGTOOTH MAPLE	2" CAL	30
AN	ACER NEGUNDO / BOX ELDER	2" CAL	28
BO	BETULA OCCIDENTALIS / RIVER BIRCH	2" CAL	15
PF	POPULUS FREMONTII / FREMONT COTTONWOOD	2" CAL	23
PA	POPULUS ANGUSTIFOLIA / NARROWLEAF COTT.	2" CAL	7
QG	QUERCUS GAMBELII / GAMBEL OAK	2" CAL	46
SA	SALIX AMYGDALOIDES / PEACHLEAF WILLOW	2" CAL	7
SHRUBS			
AA	AMELANCHIER ALNIFOLIA / SERVICEBERRY	5 GAL	17
EN	ERICAMERIA NAUSEOSA / RABBITBRUSH	5 GAL	90
CS	CORNUS SERICEA / RED-OSIER DOGWOOD	5 GAL	60
PV	PRUNUS VIRGINIANA / CHOKECHERRY	5 GAL	49
RT	RHUS TRILOBATA / SKUNKBUSH	5 GAL	71
RA	RIBES AUREUM / GOLDEN CURRANT	5 GAL	61
RW	ROSA WOODSII / WOODS ROSE	5 GAL	26
SE	SALIX EXIGUA / COYOTE WILLOW	1 GAL	123
SC	SAMBUCUS CAERULEA / BLUE ELDERBERRY	5 GAL	45
MR	MAHONIA REPENS / CREEPING MAHONIA	1 GAL	40
SA	SYMPHORICARPOS ALBUS / SNOWBERRY	5 GAL	10

UPLAND SEED MIX

SEED NO.	SPECIES NAME		Number of seeds per pound	BROADCAST SEED		
	BOTANICAL NAME	COMMON NAME		Pounds of pure live seed per acre	Percent of mix	Seeds per square foot
1	<i>Aristida purpurea</i>	Purple three-awn	250,000	4	10.95%	23
2	<i>Elymus elymoides</i>	Bottlebrush squirreltail	192,000	4	8.41%	18
3	<i>Stipa comata</i>	Needle and thread grass	137,857	4	6.04%	13
4	<i>Elymus trachycaulum</i>	Slender wheatgrass	135,000	6	8.87%	19
5	<i>Poa secunda (sandbergii)</i>	Sandberg bluegrass	1,046,960	1	11.47%	24
6	<i>Pseudoroegneria spicata</i>	Bluebunch wheatgrass	125,680	2	2.75%	6
7	<i>Balsamorhiza sagittata</i>	Arrowleaf balsamroot	58,438	4	2.56%	5
8	<i>Linum lewisii 'Appar'</i>	Appar blue flax	294,848	4	12.92%	27
9	<i>Erigeron speciosus</i>	Aspen daisy	1,600,000	0.5	8.76%	18
10	<i>Geranium viscosissimum</i>	Wild geranium	55,238	2.5	1.51%	3
11	<i>Heliomeris multiflora</i>	Showy goldeneye	1,055,000	1	11.56%	24
12	<i>Lupinus argenteus</i>	Silvery lupine	126,000	2	2.76%	6
13	<i>Wyethia amplexicaulis</i>	Mule's ear	28,221	4	1.24%	3
14	<i>Artemisia ludoviciana</i>	Prairie sage	32,767	4	1.44%	3
15	<i>Ericameria nauseosa</i>	Rubber rabbitbrush	400,000	2	8.76%	18
TOTAL				45	100.00%	210

RIPARIAN SEED MIX

SEED NO.	SPECIES NAME		Number of seeds per pound	BROADCAST SEED		
	BOTANICAL NAME	COMMON NAME		Pounds of pure live seed per acre	Percent of mix	Seeds per square foot
1	<i>Carex rostrata</i>	Beaked sedge	444,000	4	14.75%	41
2	<i>Carex nebrascensis</i>	Nebraska sedge	534,100	4	17.75%	49
3	<i>Eleocharis palustris</i>	Spikerush	754,000	4	25.05%	69
4	<i>Juncus arcticus</i>	Baltic rush	3,000,000	1	24.92%	69
5	<i>Schoenoplectus acutus</i>	Hardstem bulrush	206,400	5	8.57%	24
6	<i>Schoenoplectus americanus</i>	Threesquare bulrush	179,800	6	8.96%	25
TOTAL				24	100.00%	276

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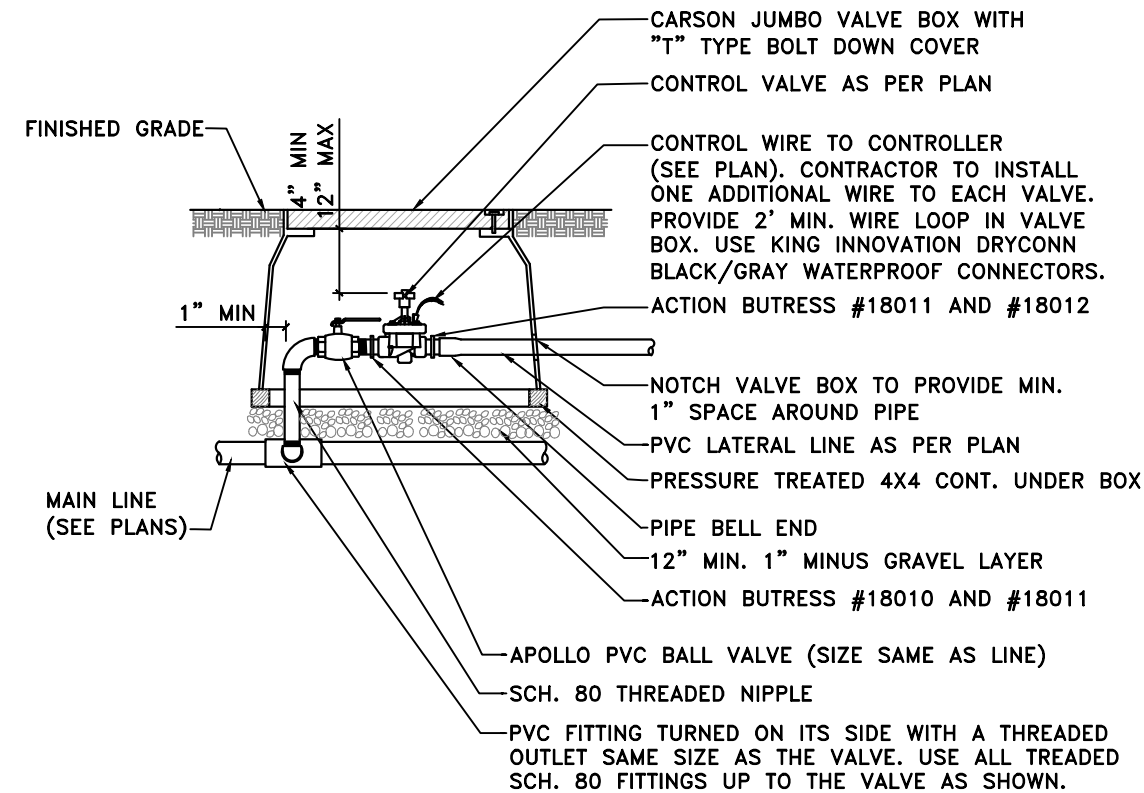
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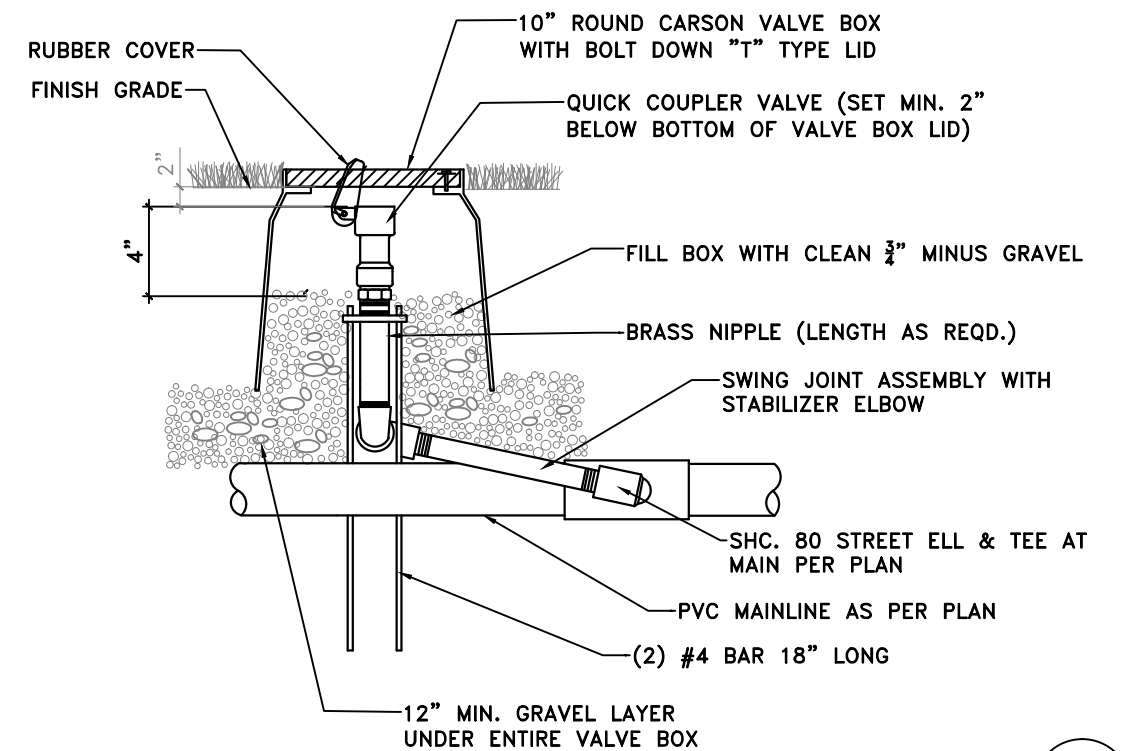
DT507

BINDING ORDER 25

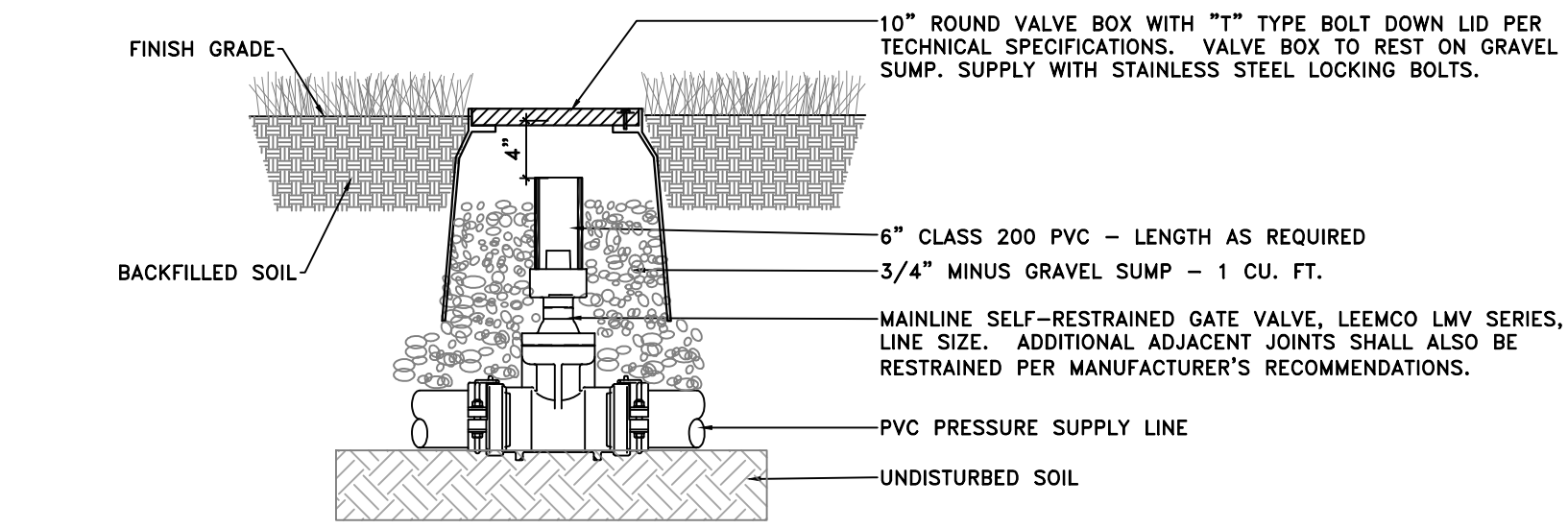
- NOTES:
- 1. IF VALVE SIZE IS 2" OR GREATER INSTALL ONE VALVE PER BOX.
 - 2. IF VALVE SIZE IS LESS THAN 2" INSTALL (2) VALVES PER BOX.
 - 3. 6" MINIMUM CLEARANCE BETWEEN VALVES.



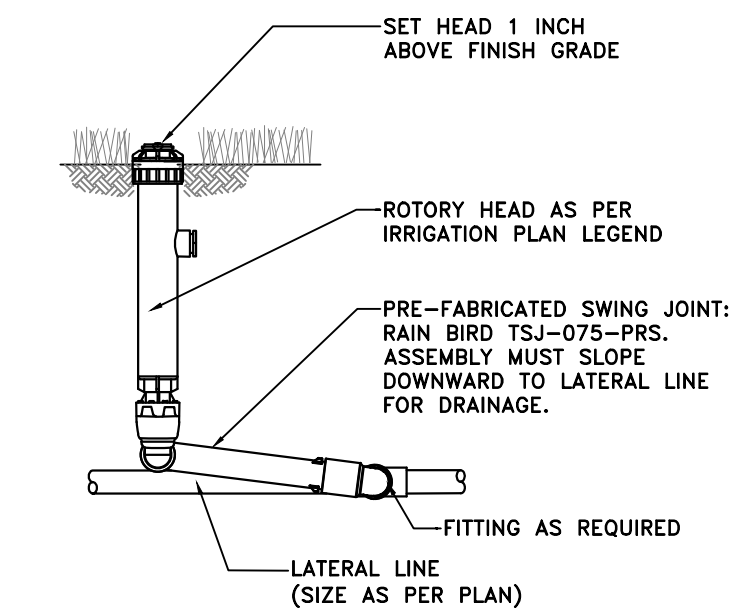
REMOTE CONTROL VALVE
NTS



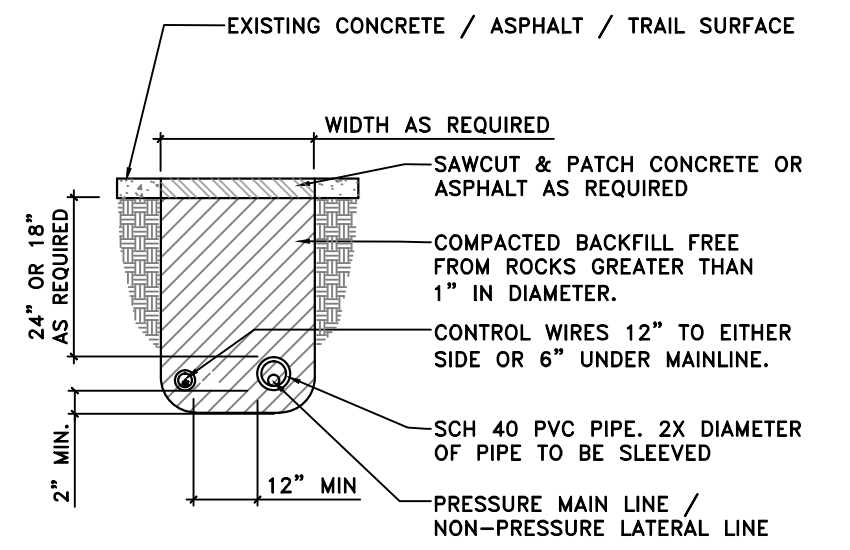
QUICK COUPLER
NTS



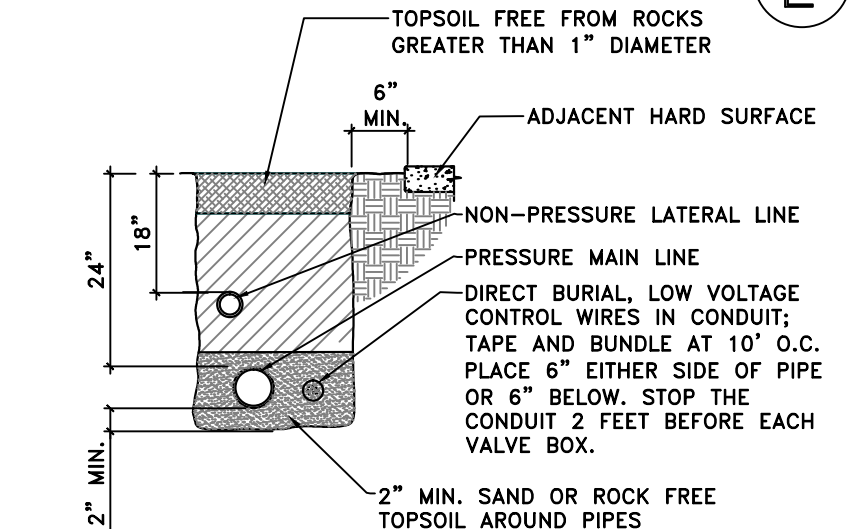
ISOLATION VALVE
NTS



ROTOR HEAD ON S.J. ASSEMBLY
NTS



IRRIGATION PIPE SLEEVING
NTS



IRRIGATION PIPE TRENCHING
NTS

PREPARED BY:
BIO-WEST
www.bio-west.com
435.753.4292
1063 West 1400 North
Logan, Utah 84321

PREPARED BY CONSULTANTS:
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PROFESSIONAL SEAL:
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LICENSED PROFESSIONAL ENGINEER
No. 6677105
STATE OF UTAH

PROJECT IDENTIFICATION:
**WASATCH HOLLOW
PRESERVE
PHASE II RIPARIAN
RESTORATION**

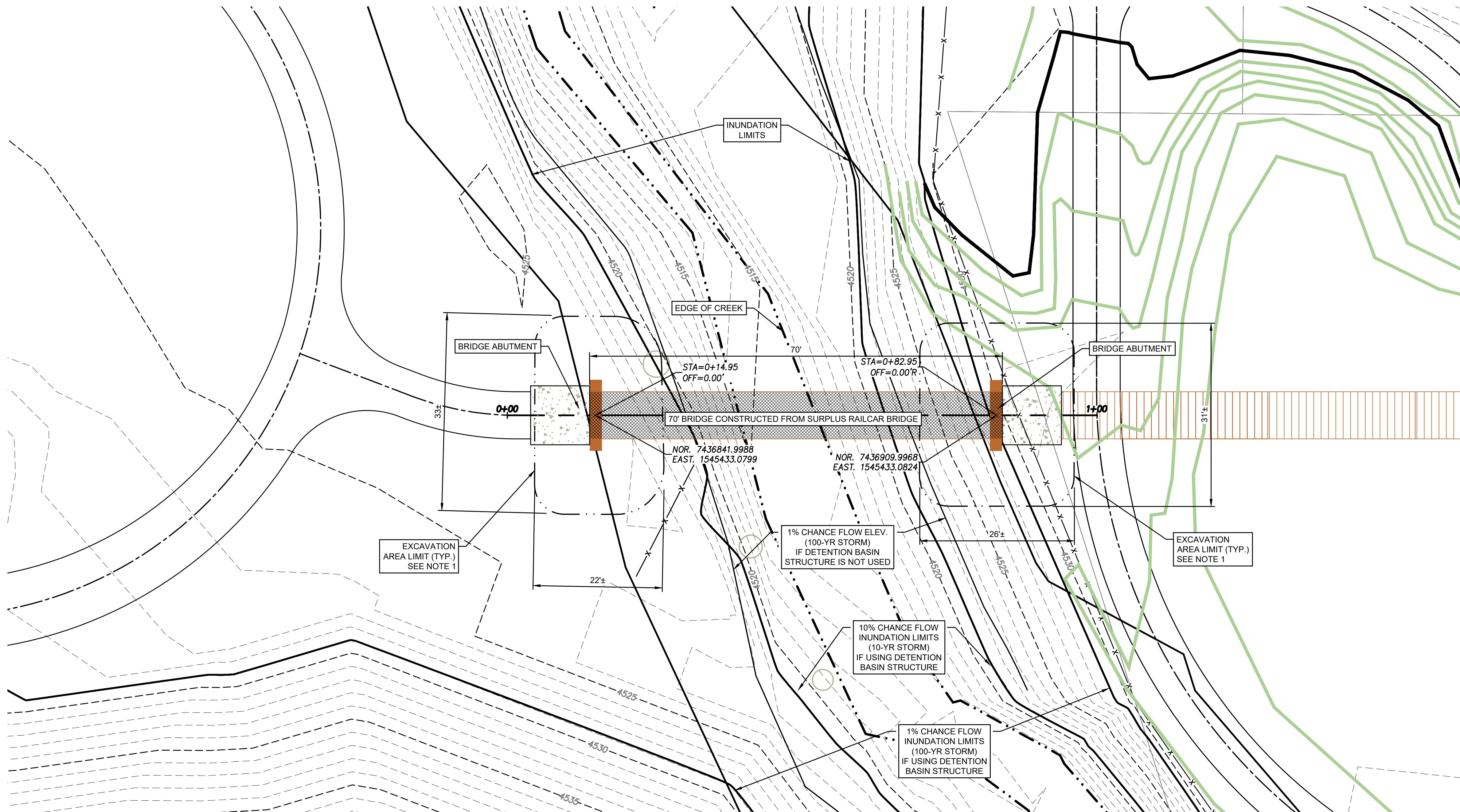
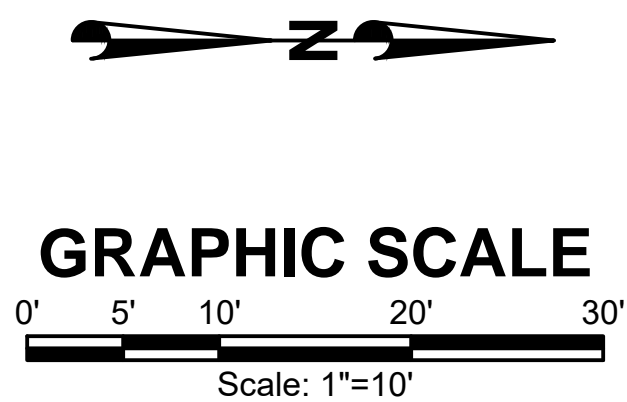
PROJECT OWNER:
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CORPORATION**
ENGINEERING
349 South 200 East, Suite 100
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MARK	DATE	DESCRIPTION

PREPARED BY: **S. DAVENPORT**
CONTRACT #: **231504**
PROJECT #: **231504**
FILE #: **231504**
DRAWING FILE: **S. DAVENPORT**
DRAWN BY: **S. DAVENPORT**
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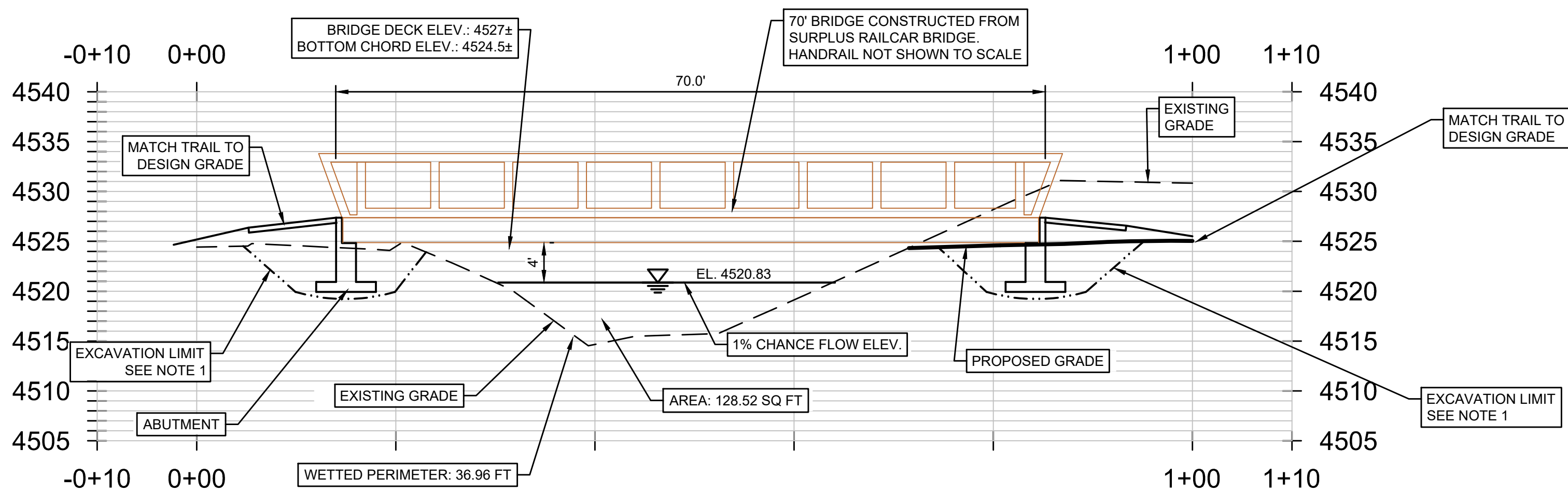
SHEET TITLE:
DETAILS

SHEET IDENTIFIER:
DT508
BINDING ORDER **26**



NOTES:

- RESTORE EXCAVATED AREA TO ORIGINAL SLOPE AND GRADES. RESEED WITH NATIVE SEED MIX.
- COORDINATE IS TO CENTER OF ABUTMENT. FIELD ADJUST BRIDGE LOCATION AS DIRECTED BY OWNER.



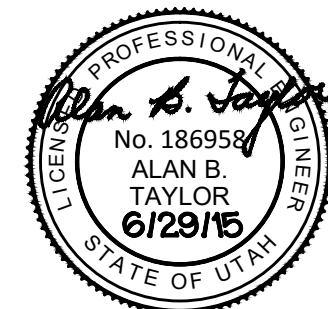
PREPARER:

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PROFESSIONAL SEAL:



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**SALT LAKE CITY
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MARK	DATE	DESCRIPTION

PREPARER #: ENTRY
CONTRACT #: ENTRY
PROJECT #: 231504
FILE #: ENTRY
DRAWING FILE: ENTRY
DRAWN BY: S. BURKE
CHECKED BY: A. TAYLOR
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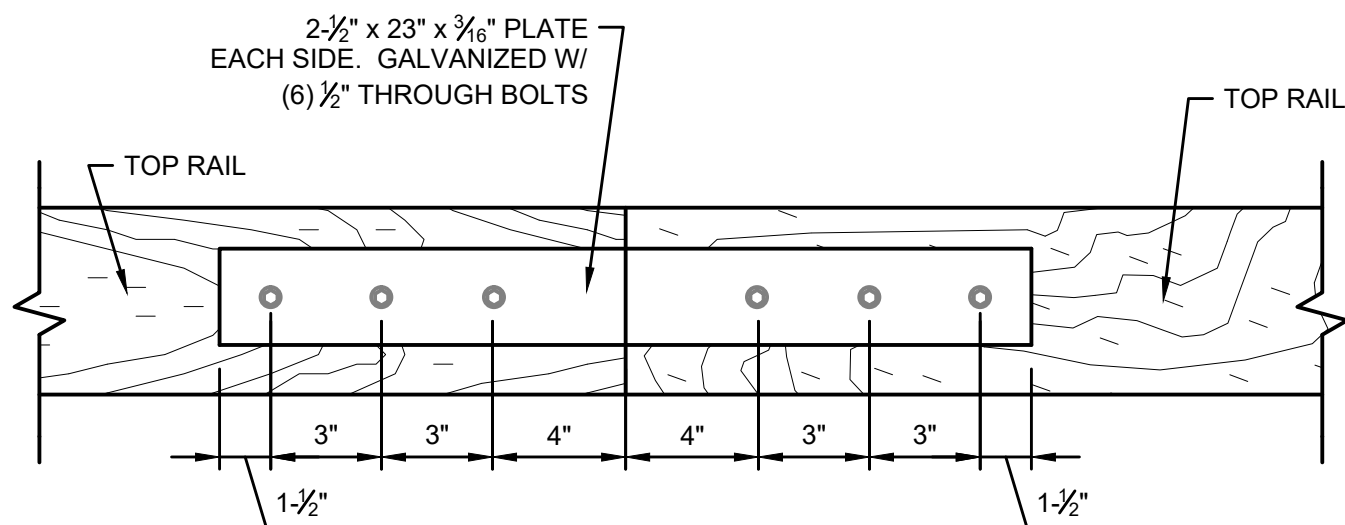
SHEET TITLE:

**CIVIL
IMPROVEMENT
PLAN**

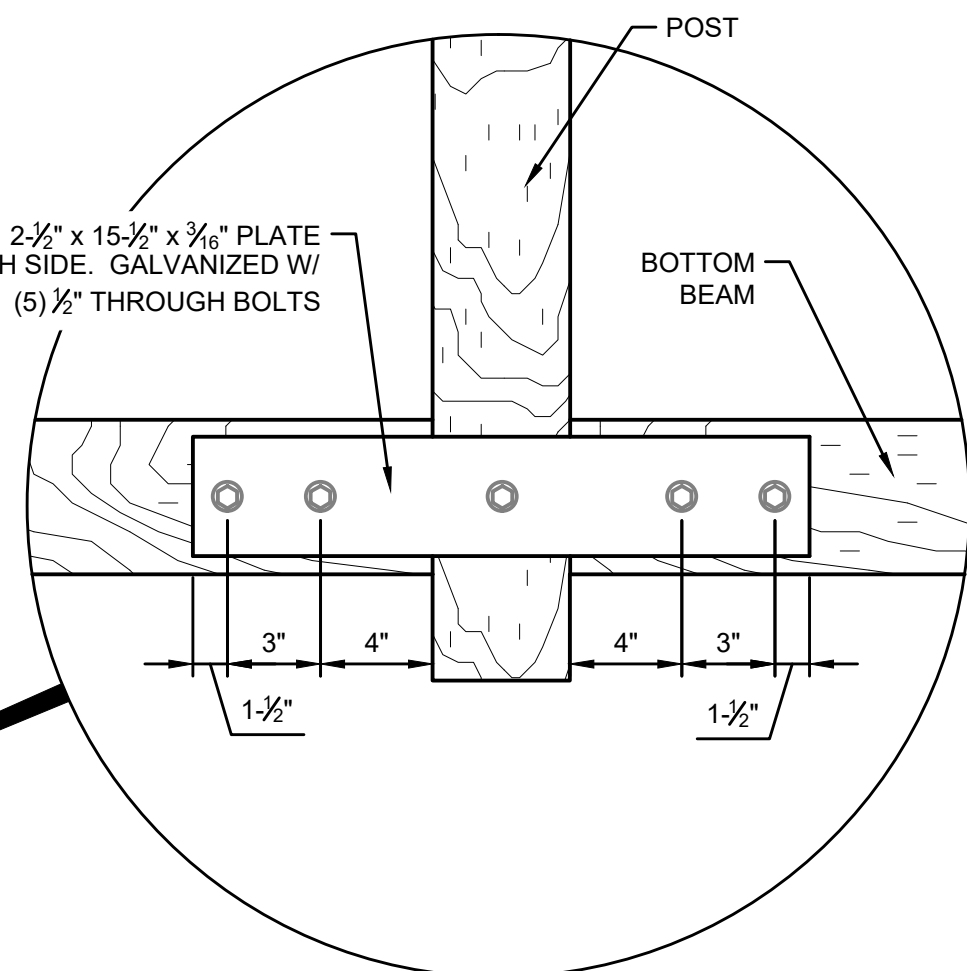
SHEET IDENTIFIER:

CI 101

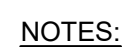
BINDING
ORDER



TOP VIEW



H



- FIELD VERIFY TO FIT WITH ABUTMENT ANCHOR BOLT PLACEMENT. ADJUST WIDTH ACCORDINGLY

P



- NOTES:

1. CONCRETE COMPRESSIVE STRENGTH $f_c = 4,000$ psi.
2. REINFORCEMENT GRADE 60.

A



PREPARER:



PREPARER CONSULTANTS:

Forsgren Associates
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Phone: (801)364-4785

PROFESSIONAL SEAL:



PROJECT IDENTIFICATION:

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PRESERVE
PHASE II RIPARIAN
RESTORATION**

PROJECT OWNER:

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MARK	DATE	DESCRIPTION

PREPARED BY:	ENTRY
CONTRACT #:	ENTRY
PROJECT #:	231504
FILE #:	ENTRY
DRAWING FILE:	ENTRY
DRAWN BY:	S. BURKE
CHECKED BY:	A. TAYLOR
COPYRIGHT:	ENTRY

SHEET TITLE:

CIVIL DETAILS

SHEET IDENTIFIER:

CI 102

**BINDING
ORDER**