

City of Little Rock - Parks and Recreation

BID - ##-##

Construction: Coleman Creek Stream Restoration War Memorial Park - Little Rock, AR

SCHEDULE OF DRAWINGS

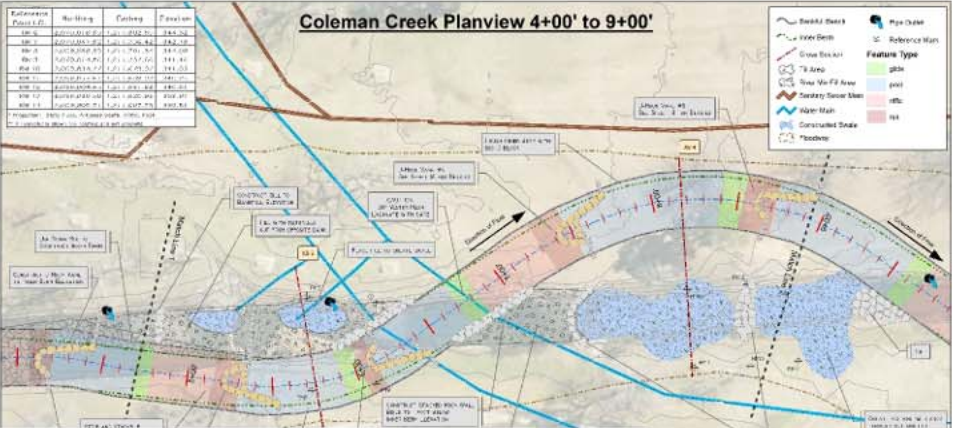
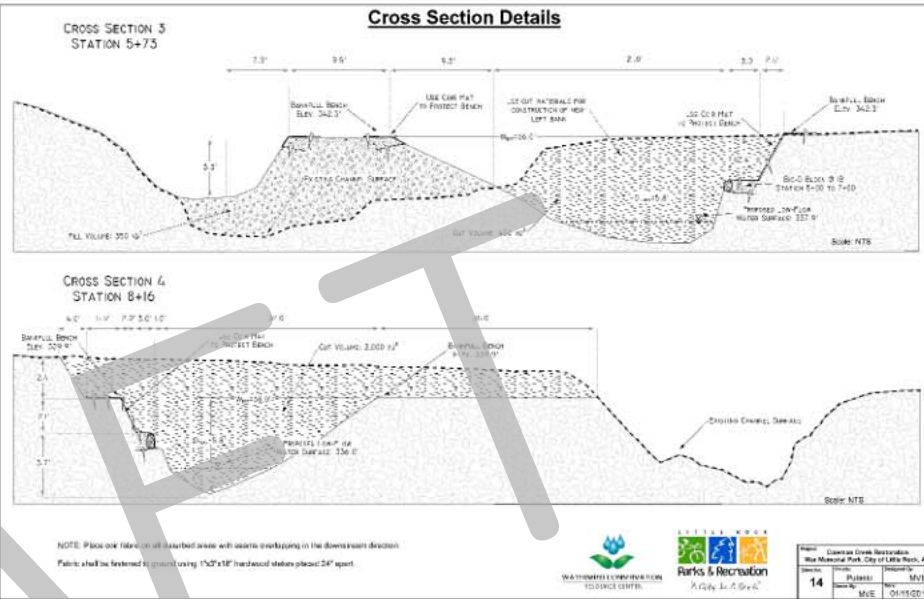
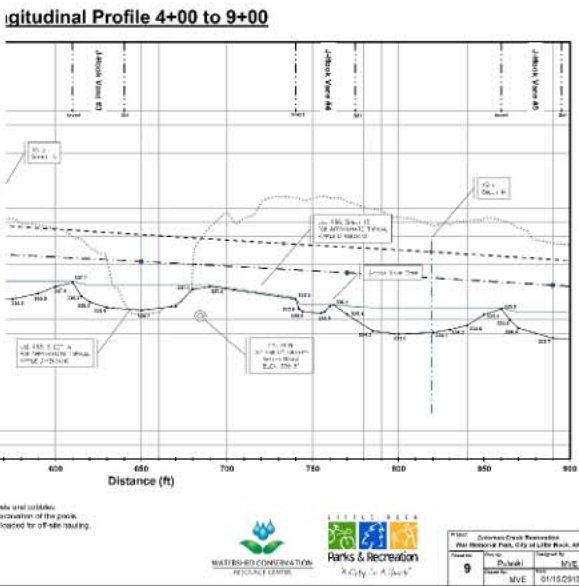
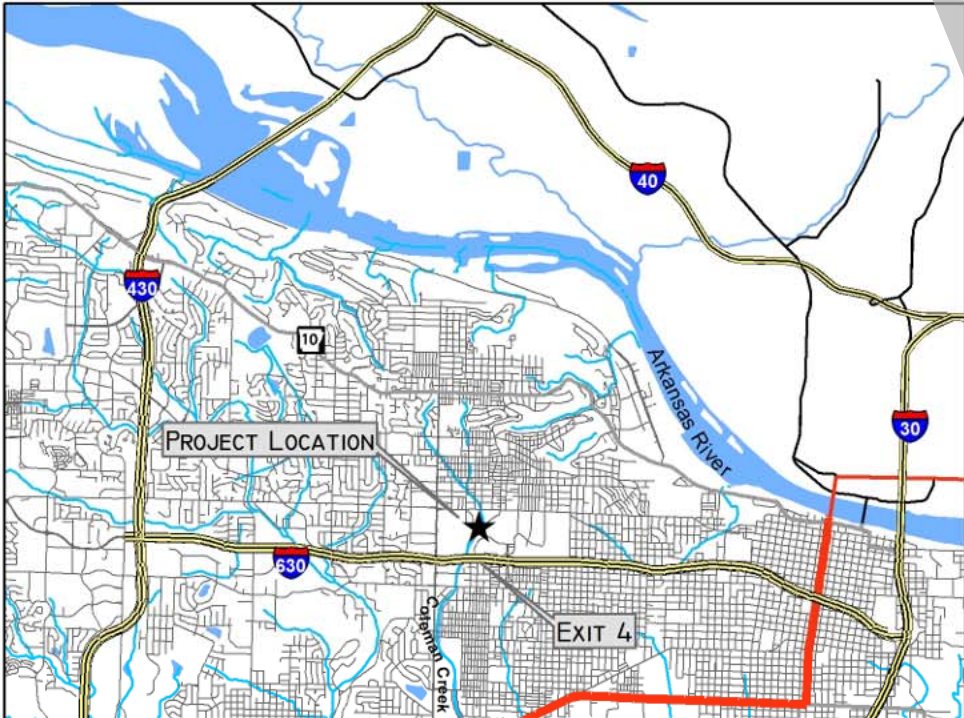
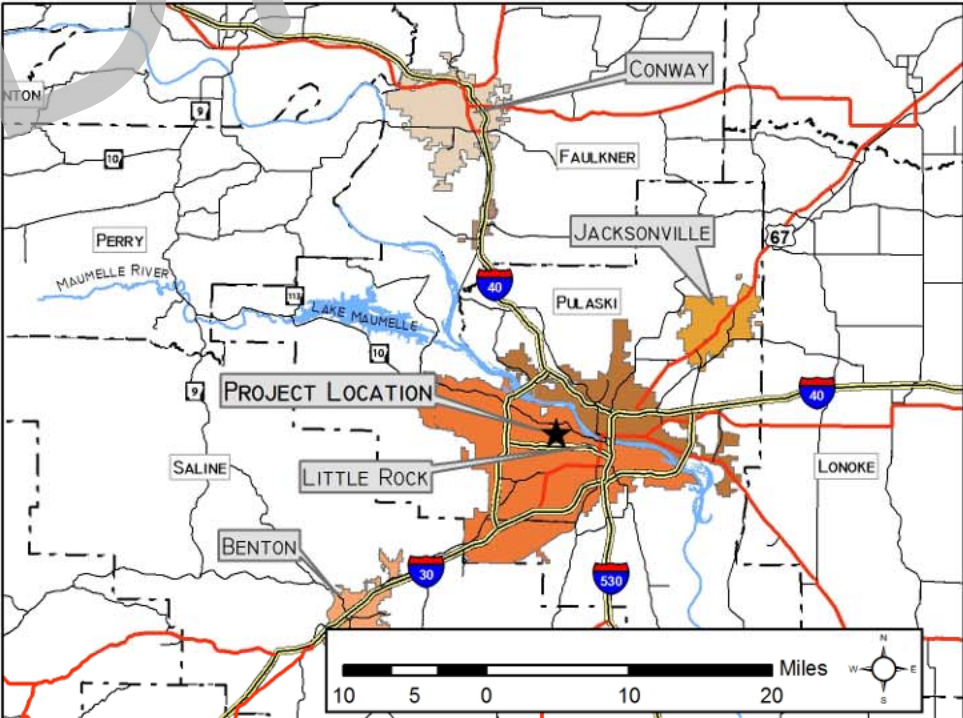
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STORM WATER POLLUTION PREVENTION PLAN

THIS PROJECT REQUIRES A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE WCRC WILL PREPARE THE SWPPP AND OBTAIN THE REQUIRED PERMITS/DOCUMENTATION FROM ADEQ. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A COPY OF THE SWPPP ON THE PROJECT SITE. THE CONTRACTOR SHALL FOLLOW ALL PROVISIONS OF THE SWPPP AND NPDES GENERAL STORM WATER PERMIT NO. AR150000, INCLUDING BUT NOT LIMITED TO:

- INSTALLING AND MAINTAINING ALL BMPs AND EROSION CONTROL MEASURES.
- INSPECTING AND DOCUMENTING INSPECTIONS OF ALL BMPs AND EROSION CONTROL MEASURES.

ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ENFORCEMENT ACTION(S) TAKEN OR IMPOSED BY FEDERAL OR STATE AGENCIES, INCLUDING THE COSTS OF FINES, CONSTRUCTION DELAYS AND REMEDIAL ACTIONS RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THE PERMIT PROVISIONS.



PROJECT CONTACT INFORMATION:

PROJECT OWNER: CITY OF LITTLE ROCK: PARKS AND RECREATION
PROJECT OFFICER: MARK WEBRE
ADDRESS: 500 WEST MARKHAM STREET, ROOM 108
LITTLE ROCK, ARKANSAS 72201
(501) 371-4770

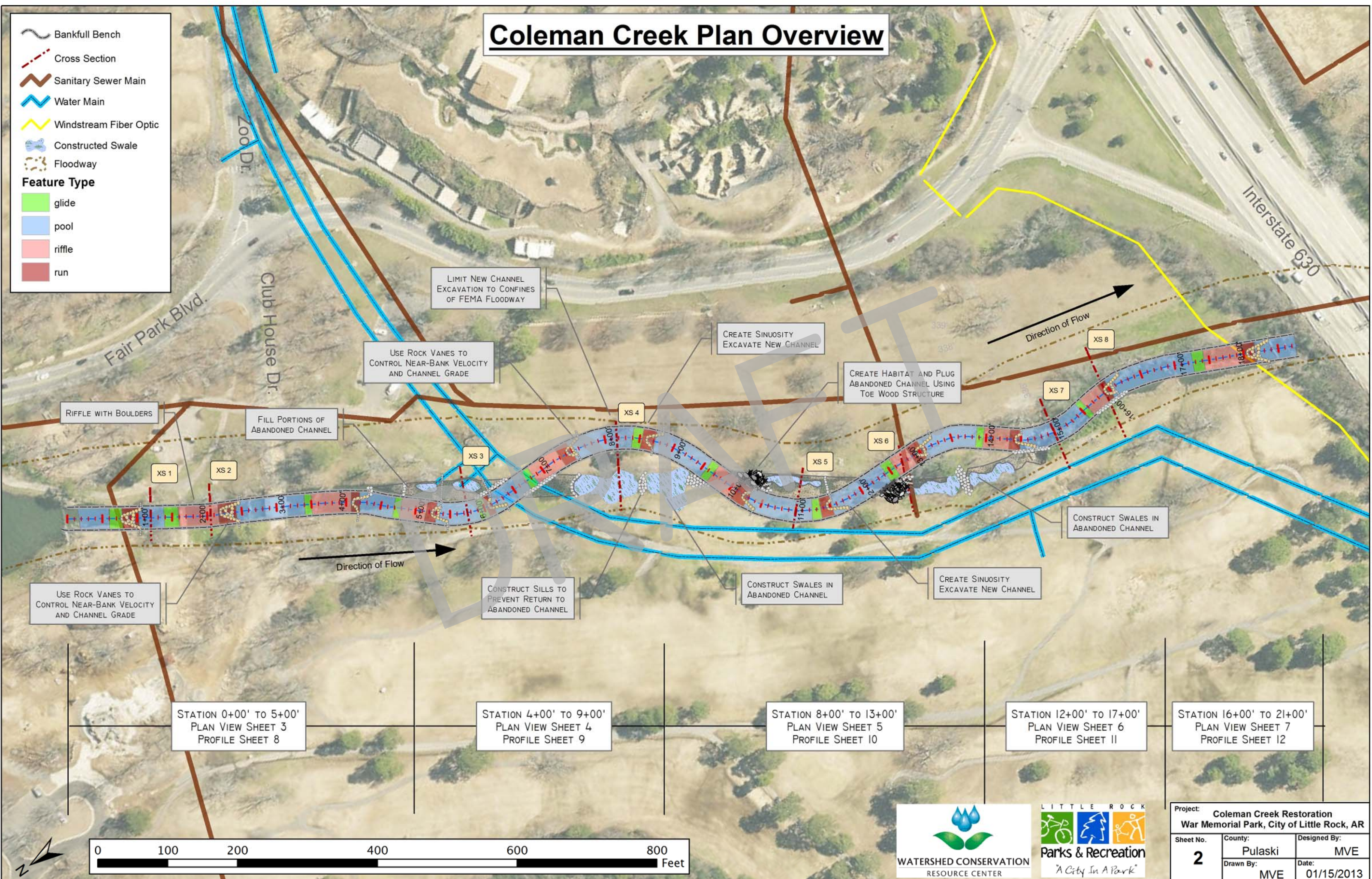
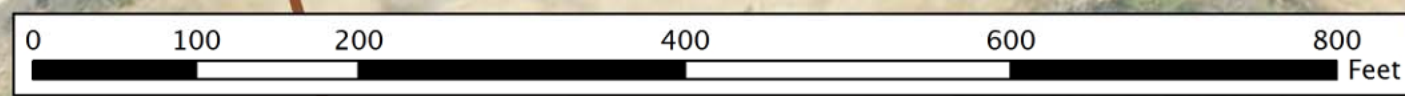
PROJECT MANAGER: SANDI FORMICA
OFFICE: 479-444-1916
CELL: 501-352-5252
ADDRESS: 380 W. ROCK ST.
FAYETTEVILLE, AR 72701



Project:	Coleman Creek Restoration War Memorial Park, City of Little Rock, AR		
Sheet No.	1	County:	Pulaski
		Designed By:	MVE
		Drawn By:	MVE
		Date:	01/15/2013

Coleman Creek Plan Overview

- Bankfull Bench
 - Cross Section
 - Sanitary Sewer Main
 - Water Main
 - Windstream Fiber Optic
 - Constructed Swale
 - Floodway
- Feature Type**
- glide
 - pool
 - riffle
 - run



Project: Coleman Creek Restoration War Memorial Park, City of Little Rock, AR		
Sheet No.	County:	Designed By:
2	Pulaski	MVE
	Drawn By:	Date:
	MVE	01/15/2013

Coleman Creek Plan View 0+00' to 5+00'

Bankfull Bench

Inner Berm

Cross Section

Fill Area

River Mix Fill Area

Sanitary Sewer Main

Constructed Swale

Floodway

Pipe Outlet

Reference Mark

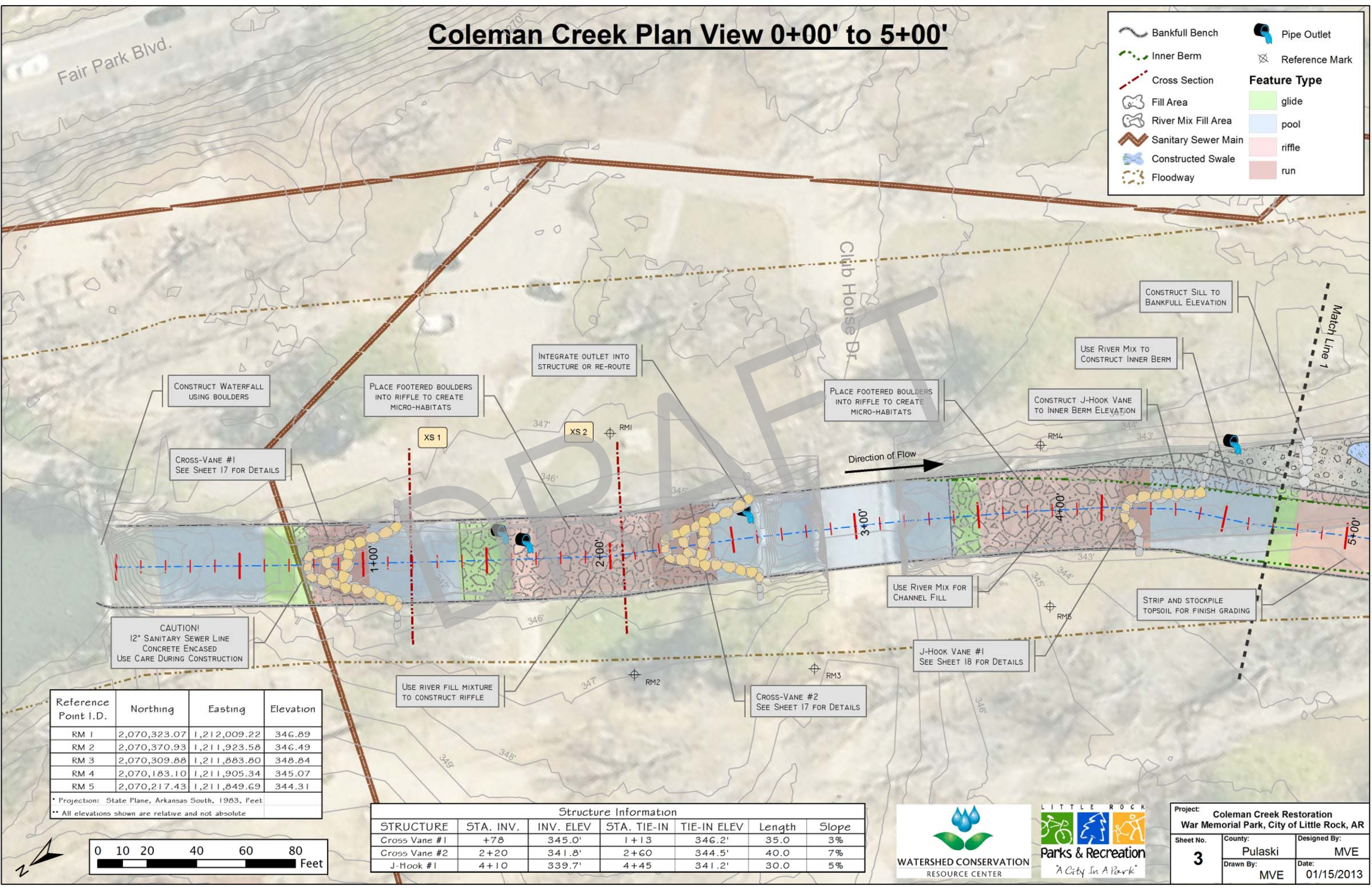
Feature Type

glide

pool

riffle

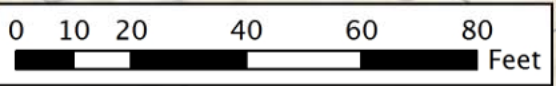
run



Reference Point I.D.	Northing	Easting	Elevation
RM 1	2,070,323.07	1,212,009.22	346.89
RM 2	2,070,370.93	1,211,923.58	346.49
RM 3	2,070,309.88	1,211,883.80	348.84
RM 4	2,070,183.10	1,211,905.34	345.07
RM 5	2,070,217.43	1,211,849.69	344.31

* Projection: State Plane, Arkansas South, 1983, Feet
** All elevations shown are relative and not absolute

Structure Information						
STRUCTURE	STA. INV.	INV. ELEV	STA. TIE-IN	TIE-IN ELEV	Length	Slope
Cross Vane #1	+78	345.0'	1+13	346.2'	35.0	3%
Cross Vane #2	2+20	341.8'	2+60	344.5'	40.0	7%
J-Hook #1	4+10	339.7'	4+45	341.2'	30.0	5%



WATERSHED CONSERVATION
RESOURCE CENTER

LITTLE ROCK
Parks & Recreation
"A City In A Park"

Project: Coleman Creek Restoration
War Memorial Park, City of Little Rock, AR

Sheet No. 3	County: Pulaski	Designed By: MVE
	Drawn By: MVE	Date: 01/15/2013

Reference Point I.D.	Northing	Easting	Elevation
RM 6	2,070,018.95	1,211,802.85	344.32
RM 7	2,070,047.92	1,211,756.42	342.18
RM 8	2,069,988.35	1,211,781.34	344.09
RM 9	2,070,014.86	1,211,737.66	341.46
RM 10	2,069,834.77	1,211,679.07	341.03
RM 11	2,069,857.61	1,211,639.02	340.25
RM 12	2,069,804.65	1,211,661.62	340.81
RM 13	2,069,830.58	1,211,620.98	339.97
RM 14	2,069,805.71	1,211,607.75	339.51

* Projection: State Plane, Arkansas South, 1983, Feet
 ** All elevations shown are relative and not absolute

Coleman Creek Planview 4+00' to 9+00'

Bankfull Bench
 Inner Berm
 Cross Section
 Fill Area
 River Mix Fill Area
 Sanitary Sewer Main
 Water Main
 Constructed Swale
 Floodway

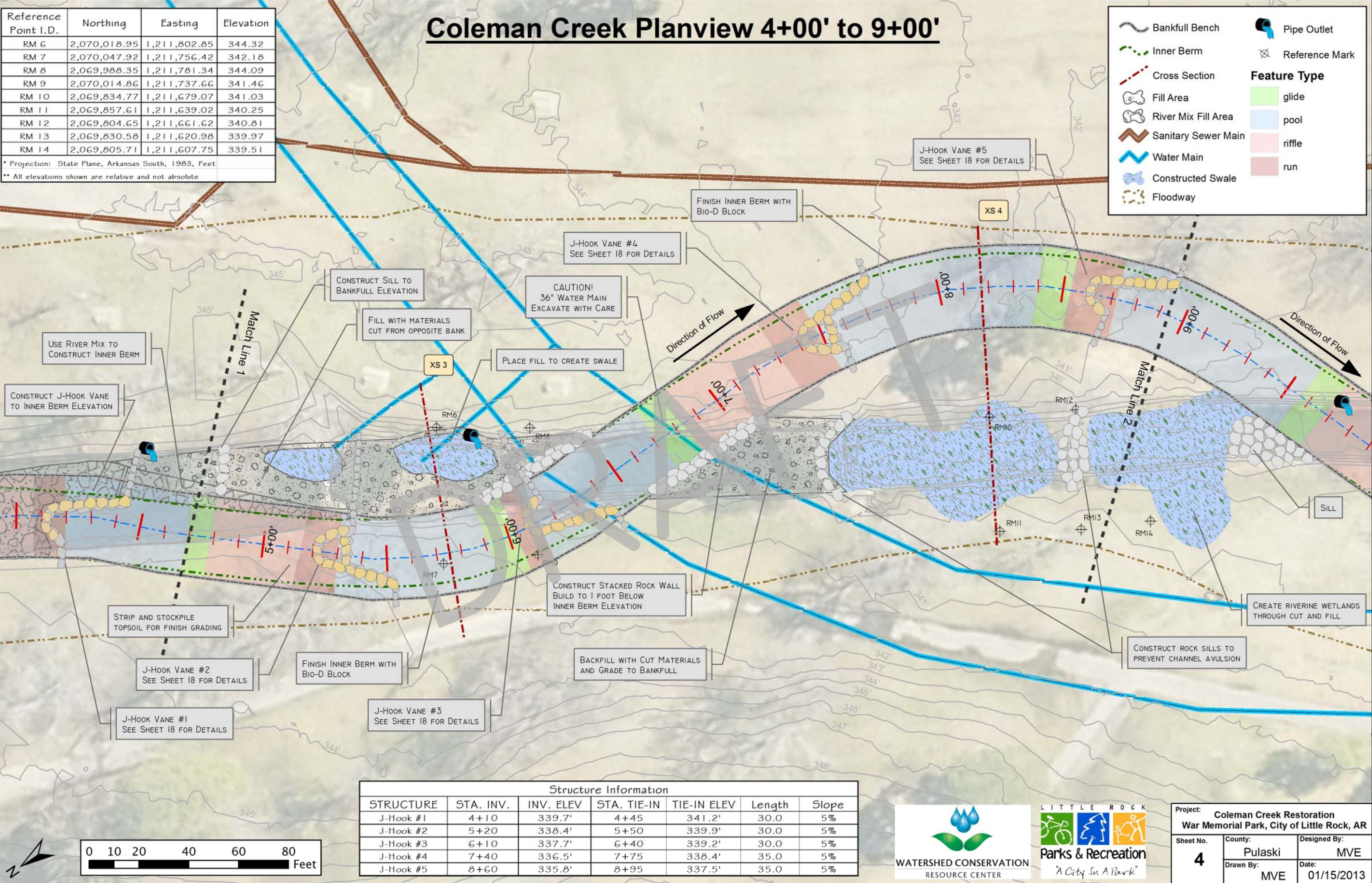
Pipe Outlet
 Reference Mark
 Feature Type

glide

pool

riffle

run



Structure Information						
STRUCTURE	STA. INV.	INV. ELEV	STA. TIE-IN	TIE-IN ELEV	Length	Slope
J-Hook #1	4+10	339.7'	4+45	341.2'	30.0	5%
J-Hook #2	5+20	338.4'	5+50	339.9'	30.0	5%
J-Hook #3	6+10	337.7'	6+40	339.2'	30.0	5%
J-Hook #4	7+40	336.5'	7+75	338.4'	35.0	5%
J-Hook #5	8+60	335.8'	8+95	337.5'	35.0	5%



Project: Coleman Creek Restoration War Memorial Park, City of Little Rock, AR			
Sheet No. 4	County: Pulaski	Designed By: MVE	
	Drawn By: MVE	Date: 01/15/2013	

Coleman Creek Planview 8+50' to 14+00'

Bankfull Bench

Inner Berm

Cross Section

Fill Area

River Mix Fill Area

Sanitary Sewer Main

Water Main

Constructed Swale

Floodway

Pipe Outlet

Reference Mark

Feature Type

glide

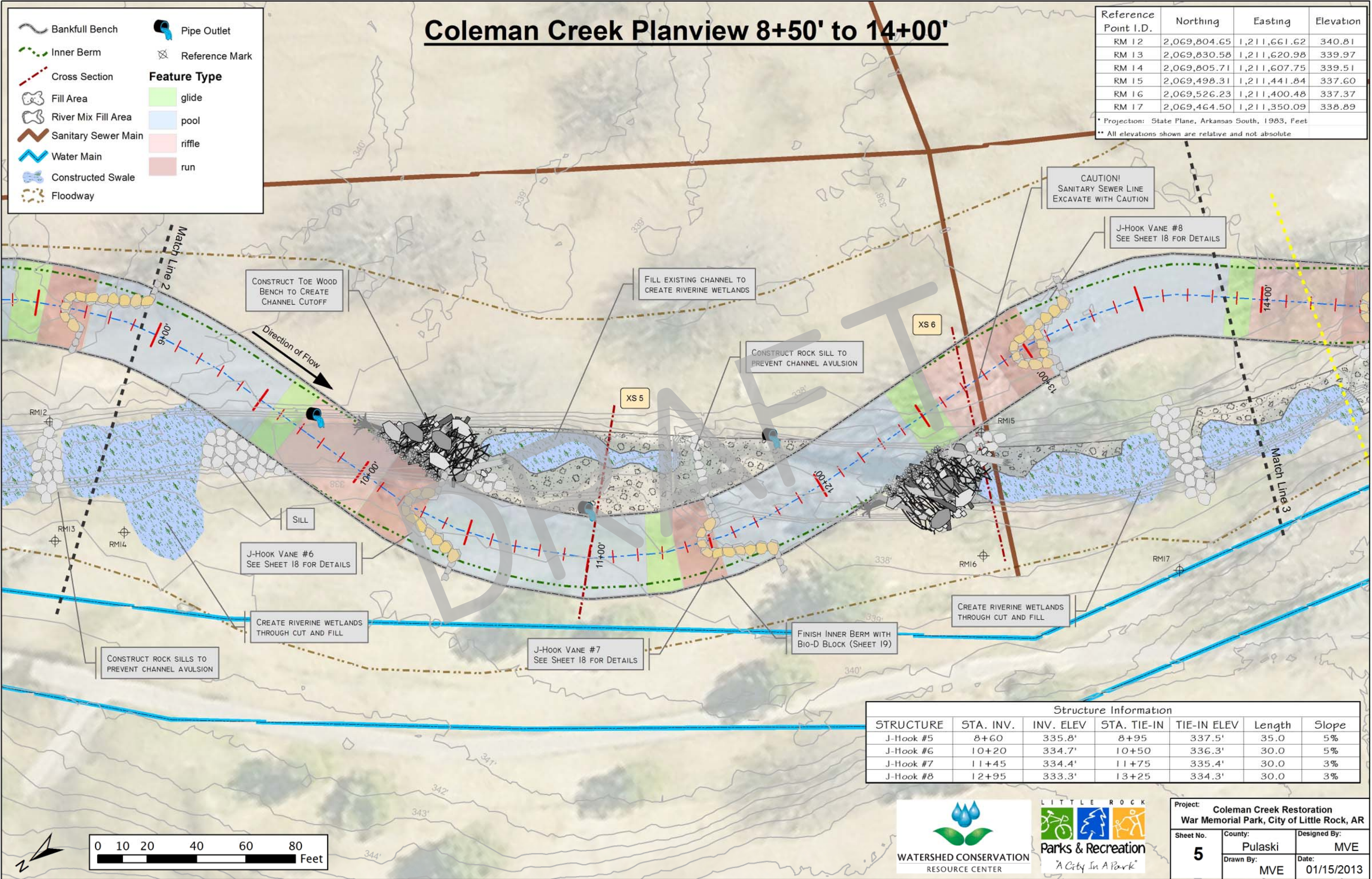
pool

riffle

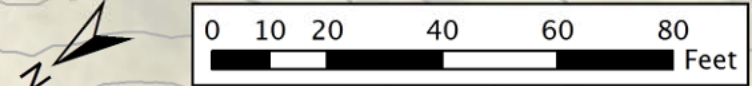
run

Reference Point I.D.	Northing	Easting	Elevation
RM 12	2,069,804.65	1,211,661.62	340.81
RM 13	2,069,830.58	1,211,620.98	339.97
RM 14	2,069,805.71	1,211,607.75	339.51
RM 15	2,069,498.31	1,211,441.84	337.60
RM 16	2,069,526.23	1,211,400.48	337.37
RM 17	2,069,464.50	1,211,350.09	338.89

* Projection: State Plane, Arkansas South, 1983, Feet
** All elevations shown are relative and not absolute

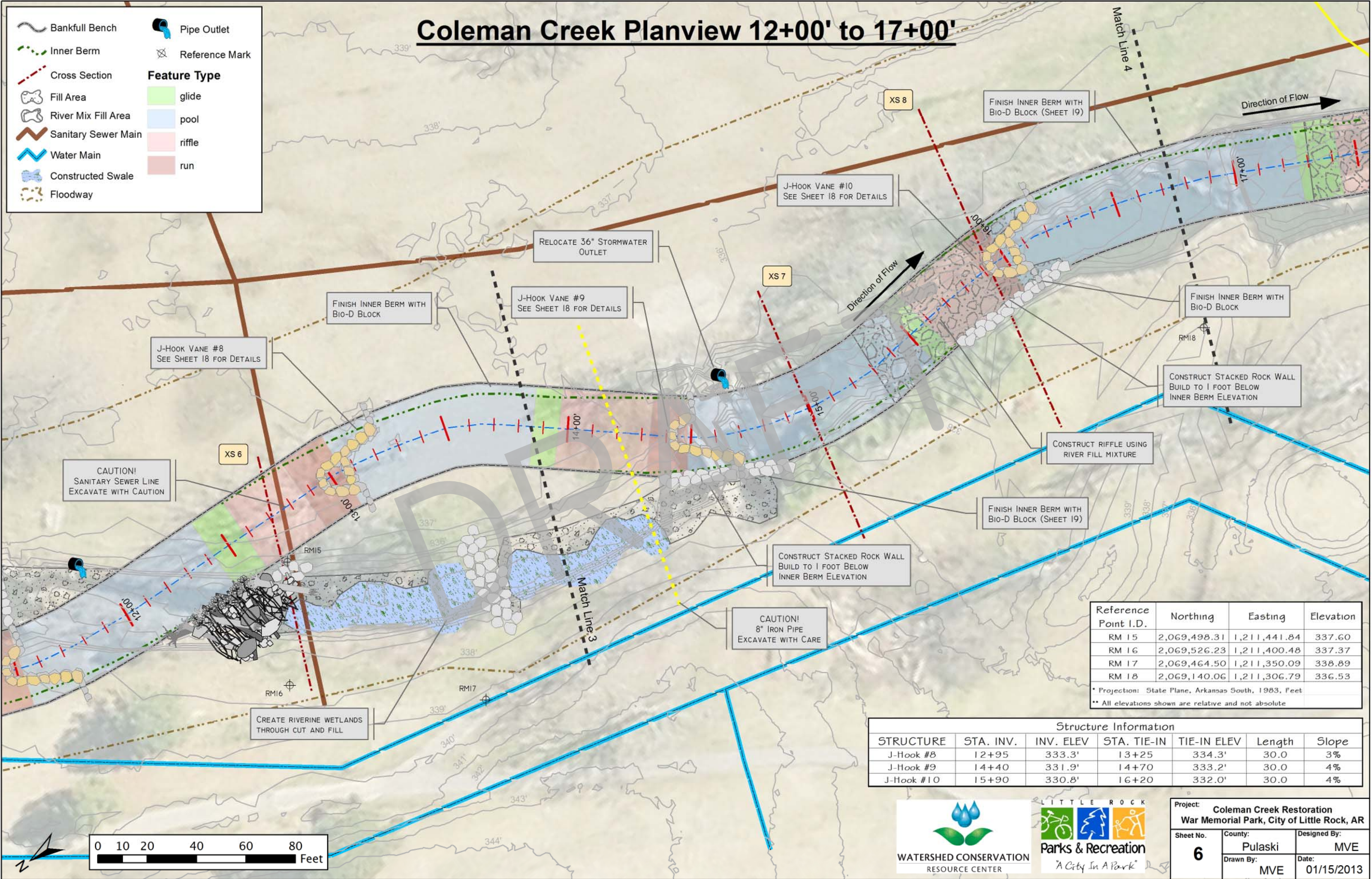


Structure Information						
STRUCTURE	STA. INV.	INV. ELEV	STA. TIE-IN	TIE-IN ELEV	Length	Slope
J-Hook #5	8+60	335.8'	8+95	337.5'	35.0	5%
J-Hook #6	10+20	334.7'	10+50	336.3'	30.0	5%
J-Hook #7	11+45	334.4'	11+75	335.4'	30.0	3%
J-Hook #8	12+95	333.3'	13+25	334.3'	30.0	3%



Project: Coleman Creek Restoration War Memorial Park, City of Little Rock, AR			
Sheet No.	County:	Designed By:	
5	Pulaski	MVE	
	Drawn By:	Date:	
	MVE	01/15/2013	

Coleman Creek Planview 12+00' to 17+00'



Bankfull Bench

Inner Berm

Cross Section

Fill Area

River Mix Fill Area

Sanitary Sewer Main

Water Main

Constructed Swale

Floodway

Pipe Outlet

Reference Mark

Feature Type

glide

pool

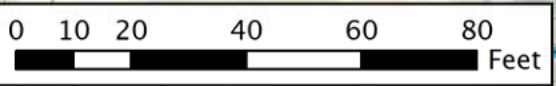
riffle

run

Reference Point I.D.	Northing	Easting	Elevation
RM 15	2,069,498.31	1,211,441.84	337.60
RM 16	2,069,526.23	1,211,400.48	337.37
RM 17	2,069,464.50	1,211,350.09	338.89
RM 18	2,069,140.06	1,211,306.79	336.53

* Projection: State Plane, Arkansas South, 1983, Feet
** All elevations shown are relative and not absolute

Structure Information						
STRUCTURE	STA. INV.	INV. ELEV	STA. TIE-IN	TIE-IN ELEV	Length	Slope
J-Hook #8	12+95	333.3'	13+25	334.3'	30.0	3%
J-Hook #9	14+40	331.9'	14+70	333.2'	30.0	4%
J-Hook #10	15+90	330.8'	16+20	332.0'	30.0	4%



WATERSHED CONSERVATION
RESOURCE CENTER

LITTLE ROCK
Parks & Recreation
"A City In A Park"

Project: Coleman Creek Restoration
War Memorial Park, City of Little Rock, AR

Sheet No. 6

County: Pulaski

Drawn By: MVE

Designed By: MVE

Date: 01/15/2013

Coleman Creek Planview 16+00' to 18+50'

Inner Berm

Cross Section

Fill Area

River Mix Fill Area

Sanitary Sewer Main

Water Main

Constructed Swale

Floodway

Pipe Outlet

Reference Mark

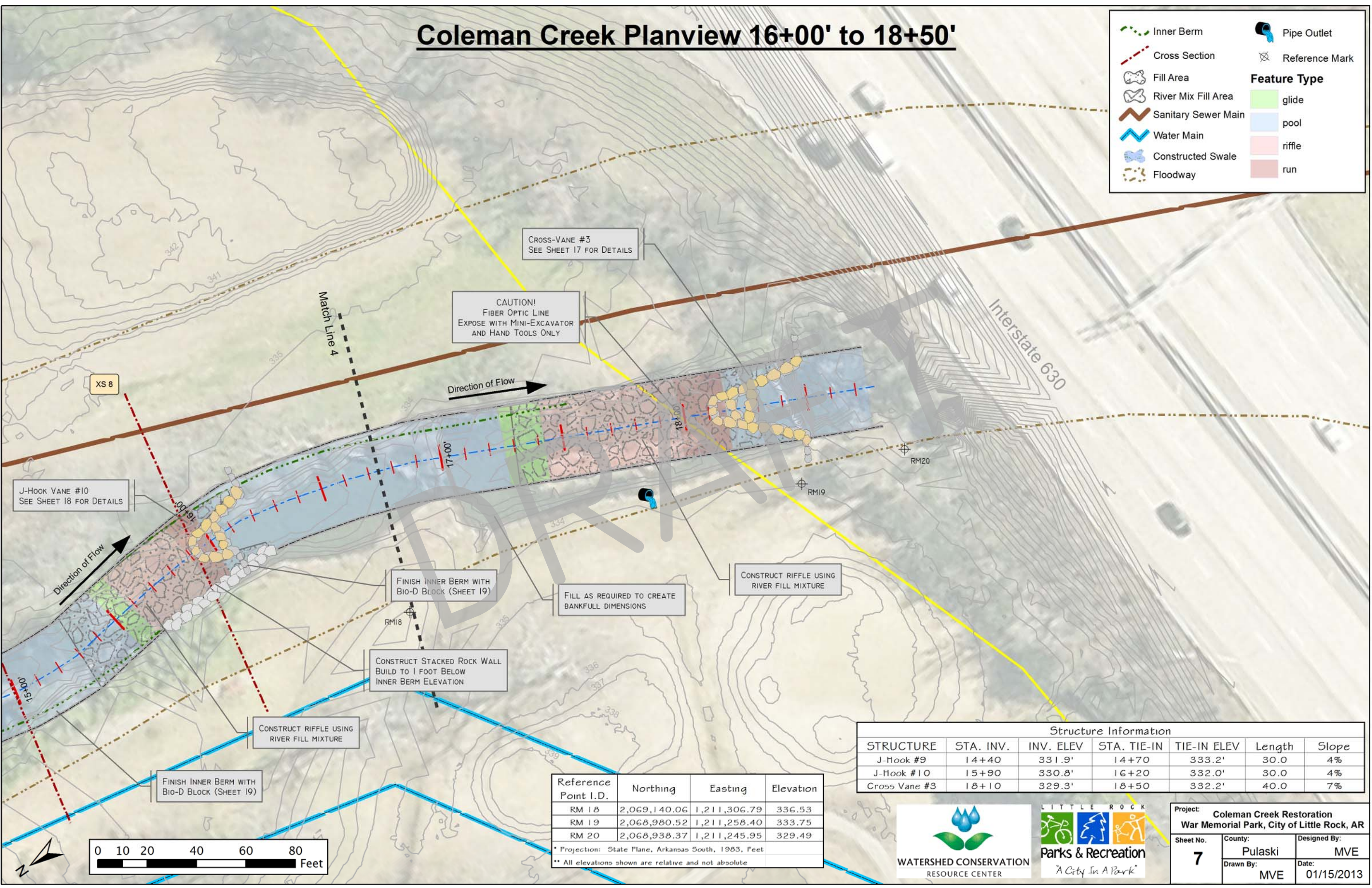
Feature Type

glide

pool

riffle

run



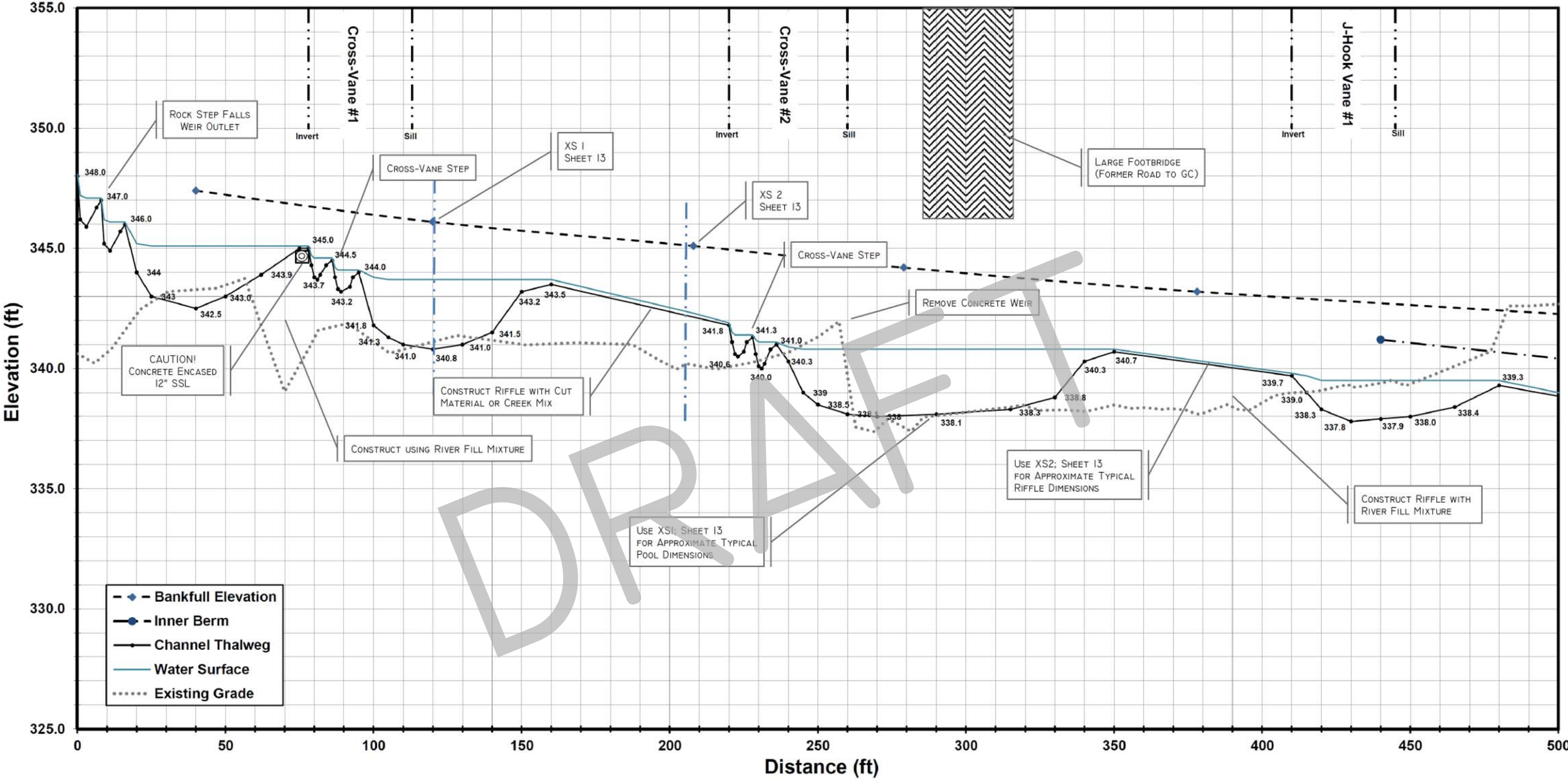
Reference Point I.D.	Northing	Easting	Elevation
RM 18	2,069,140.06	1,211,306.79	336.53
RM 19	2,068,980.52	1,211,258.40	333.75
RM 20	2,068,938.37	1,211,245.95	329.49
* Projection: State Plane, Arkansas South, 1983, Feet			
** All elevations shown are relative and not absolute			

Structure Information						
STRUCTURE	STA. INV.	INV. ELEV	STA. TIE-IN	TIE-IN ELEV	Length	Slope
J-Hook #9	14+40	331.9'	14+70	333.2'	30.0	4%
J-Hook #10	15+90	330.8'	16+20	332.0'	30.0	4%
Cross Vane #3	18+10	329.3'	18+50	332.2'	40.0	7%



Project: Coleman Creek Restoration War Memorial Park, City of Little Rock, AR			
Sheet No.	County:	Designed By:	
7	Pulaski	MVE	
	Drawn By:	Date:	
	MVE	01/15/2013	

Longitudinal Profile 0+00 to 5+00

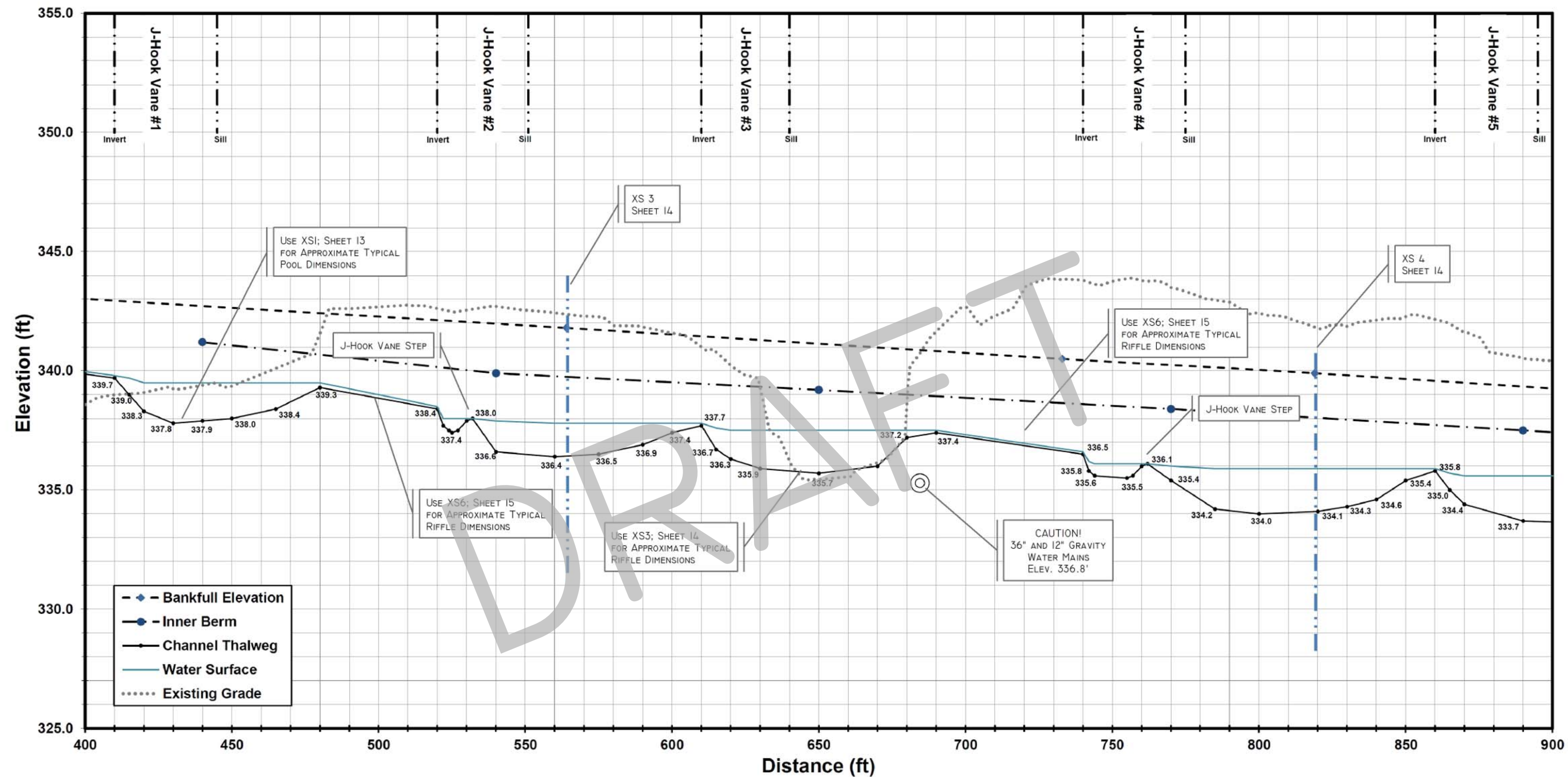


NOTES: Shale bedrock will be encountered during the excavation of pools. The gravels and cobbles present above the bedrock shall be removed prior to excavation then replaced after excavation of the pools. The shale bedrock material that is excavated shall be removed from the channel and loaded into 3rd party trucks for off-site removal.

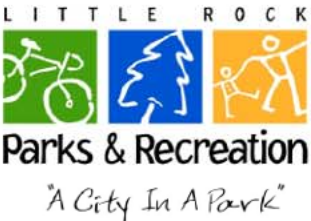


Project: Coleman Creek Restoration War Memorial Park, City of Little Rock, AR		
Sheet No. 8	County: Pulaski	Designed By: MVE
	Drawn By: MVE	Date: 01/15/2013

Longitudinal Profile 4+00 to 9+00

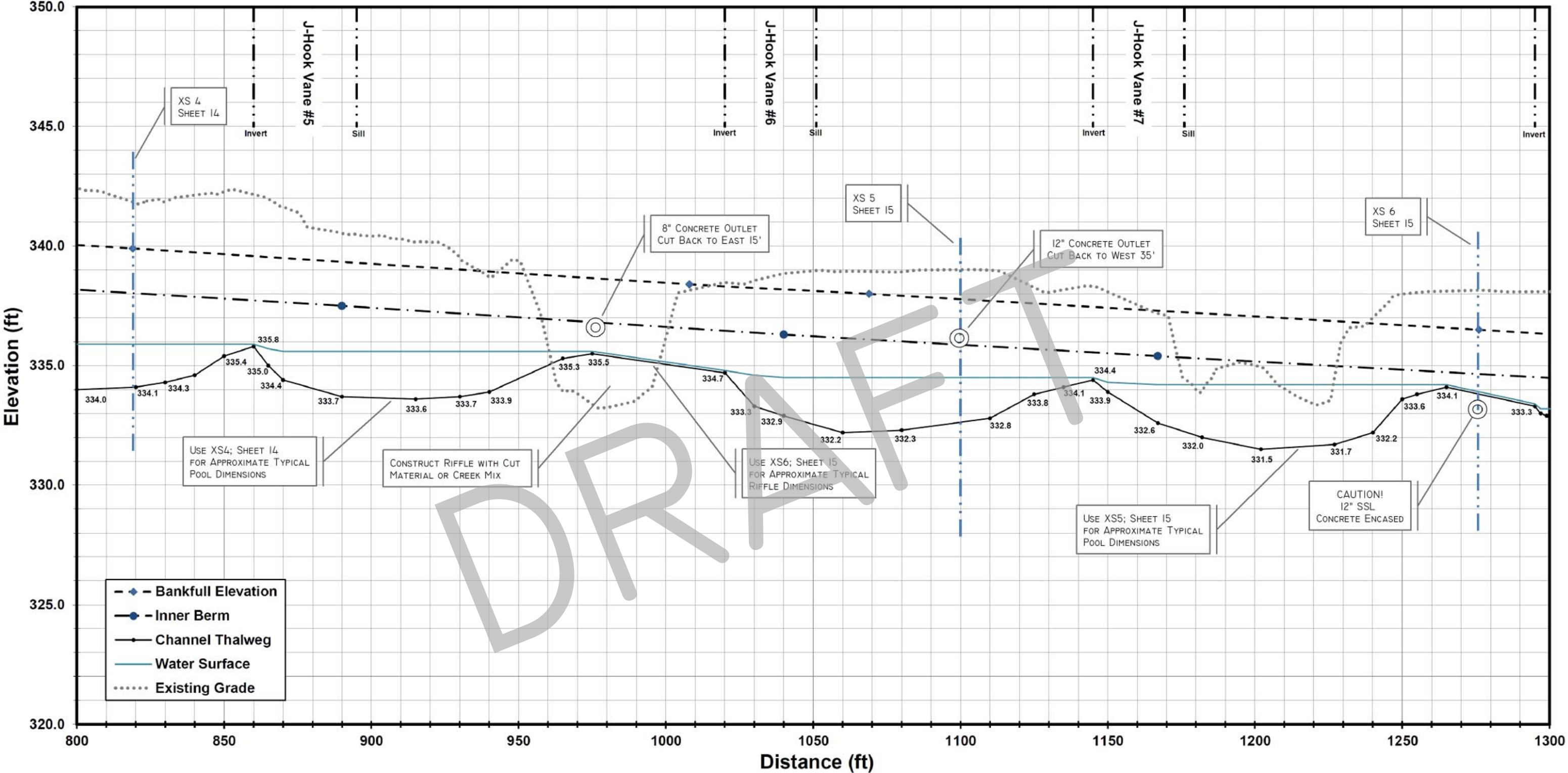


NOTES: Shale bedrock will be encountered during the excavation of pools. The gravels and cobbles present above the bedrock shall be removed prior to excavation then replaced after excavation of the pools. The shale bedrock material that is excavated shall be removed from the channel and loaded for off-site hauling.



Project: Coleman Creek Restoration War Memorial Park, City of Little Rock, AR		
Sheet No.	County:	Designed By:
9	Pulaski	MVE
	Drawn By:	Date:
	MVE	01/15/2013

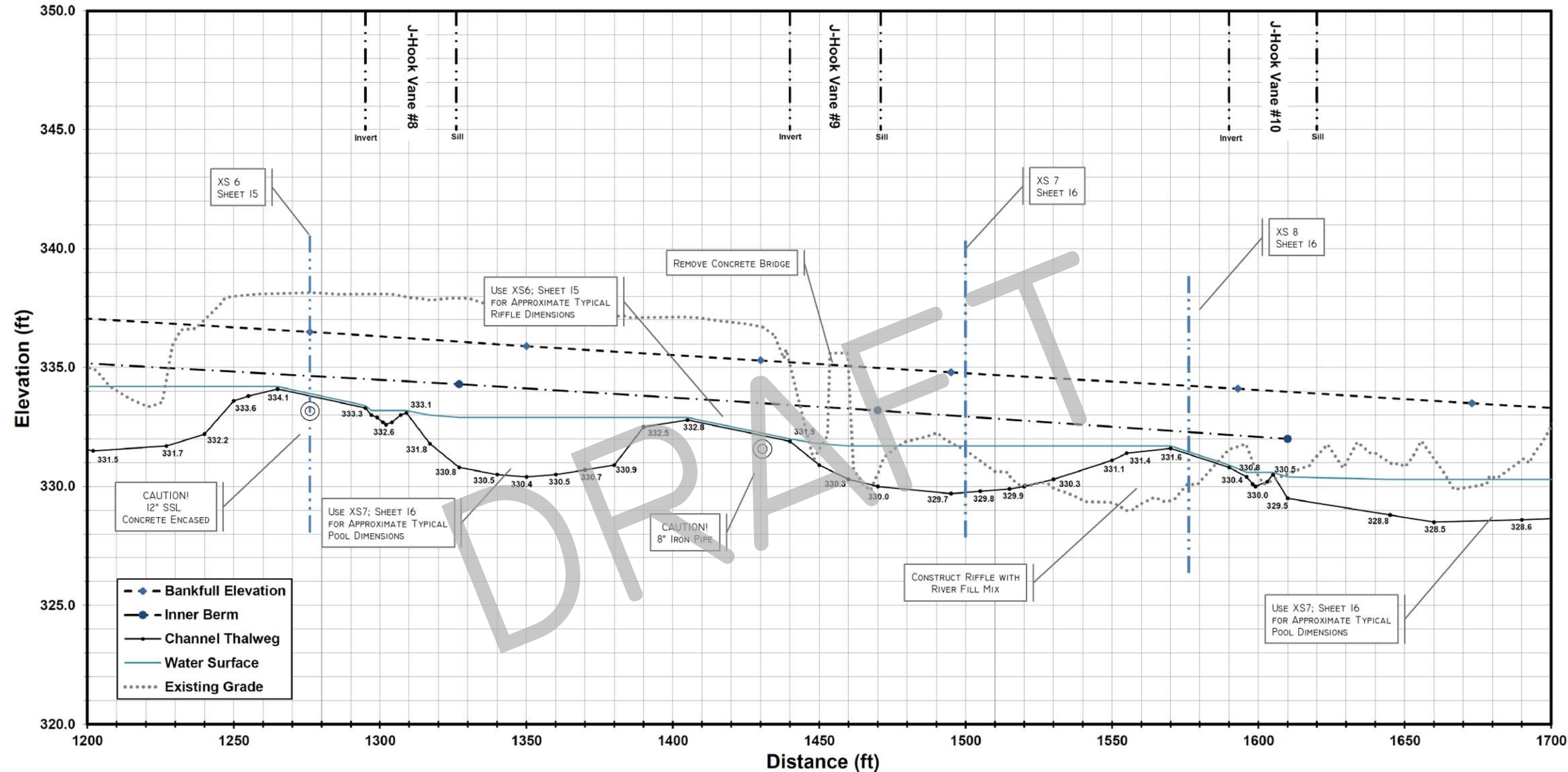
Longitudinal Profile 8+00 to 13+00



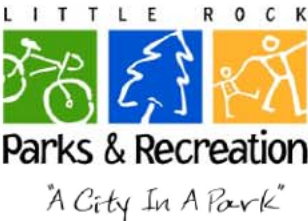
NOTES: Shale bedrock will be encountered during the excavation of pools. The gravels and cobbles present above the bedrock shall be removed prior to excavation then replaced after excavation of the pools. The shale bedrock material that is excavated shall be removed from the channel and loaded into 3rd party trucks for off-site removal.

Project: Coleman Creek Restoration War Memorial Park, City of Little Rock, AR		
Sheet No.	County:	Designed By:
10	Pulaski	MVE
	Drawn By:	Date:
	MVE	01/15/2013

Longitudinal Profile 12+00 to 17+00

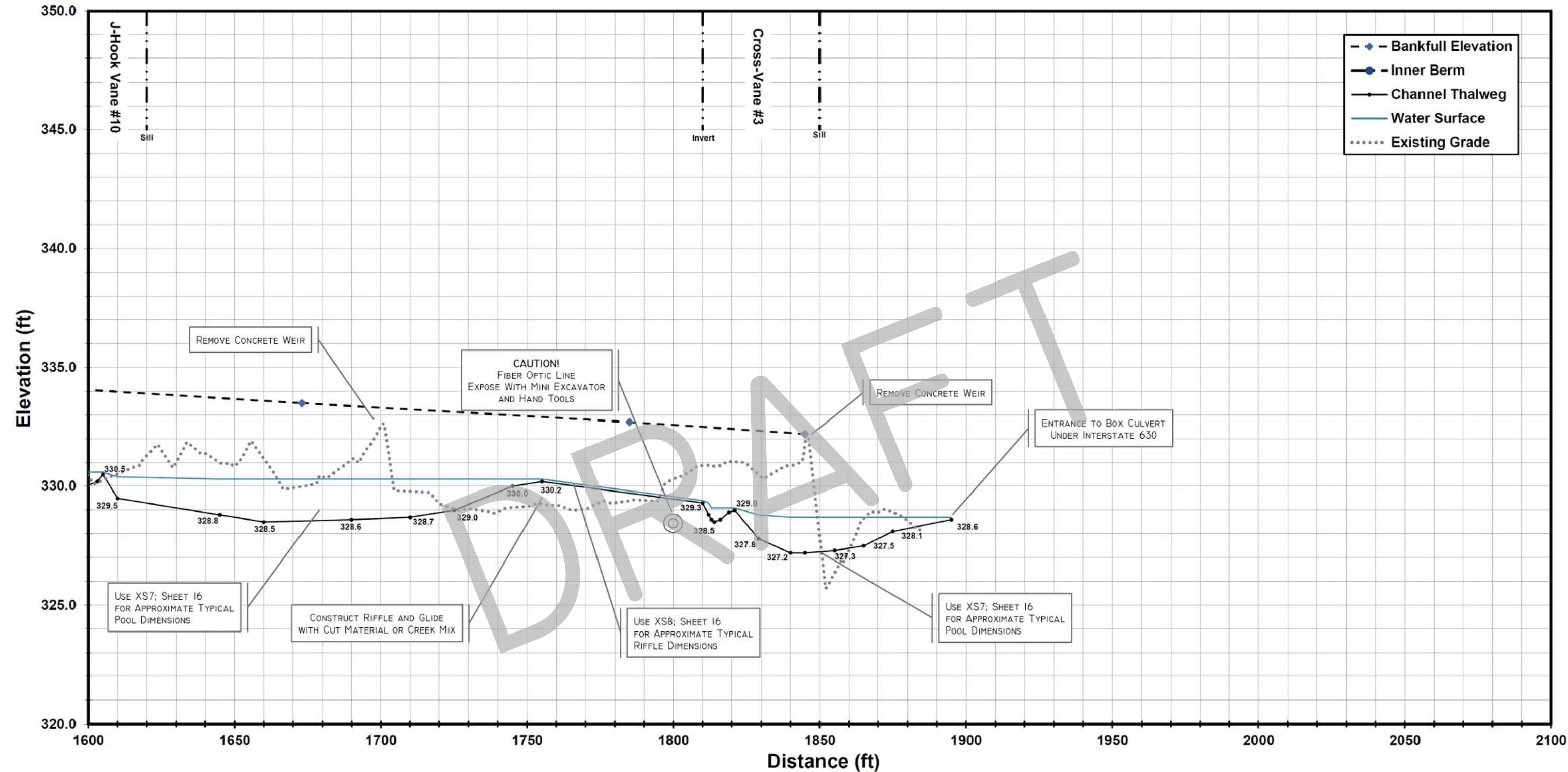


NOTES: Shale bedrock will be encountered during the excavation of pools. The gravels and cobbles present above the bedrock shall be removed prior to excavation then replaced after excavation of the pools. The shale bedrock material that is excavated shall be removed from the channel and loaded into 3rd party trucks for off-site removal.



Project: Coleman Creek Restoration War Memorial Park, City of Little Rock, AR		
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11	Pulaski	MVE
	Drawn By:	Date:
	MVE	01/15/2013

Longitudinal Profile 16+00 to 21+00



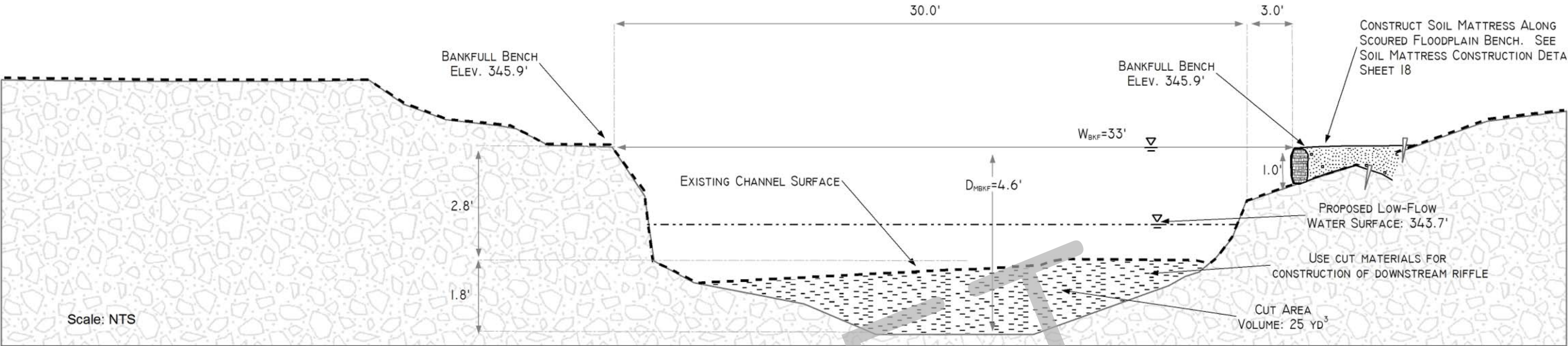
NOTES: Shale bedrock will be encountered during the excavation of pools. The gravels and cobbles present above the bedrock shall be removed prior to excavation then replaced after excavation of the pools. The shale bedrock material that is excavated shall be removed from the channel and loaded into 3rd party trucks for off-site removal.



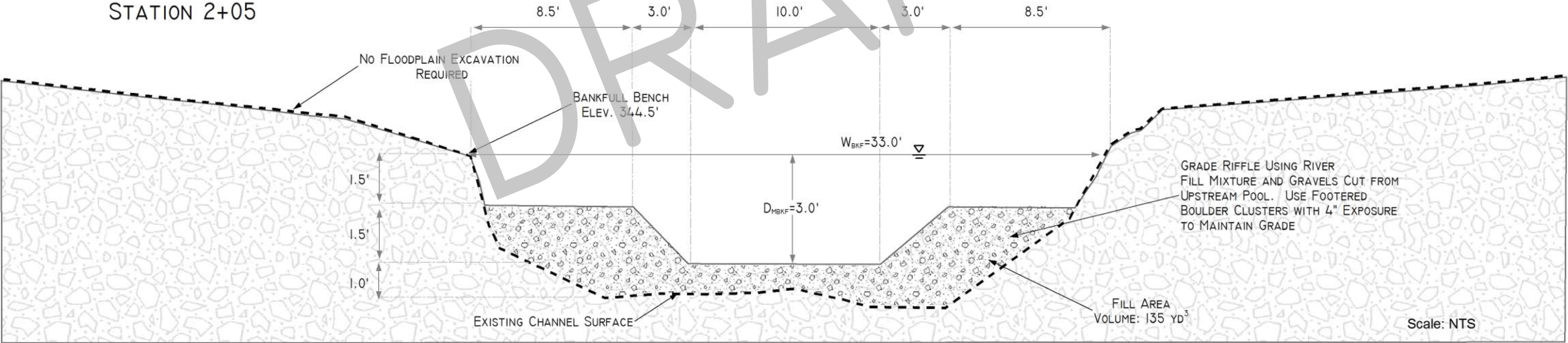
Project: Coleman Creek Restoration War Memorial Park, City of Little Rock, AR		
Sheet No.	County:	Designed By:
12	Pulaski	MVE
	Drawn By:	Date:
	MVE	01/15/2013

Cross Section Details

CROSS SECTION 1
STATION 1+20



CROSS SECTION 2
STATION 2+05

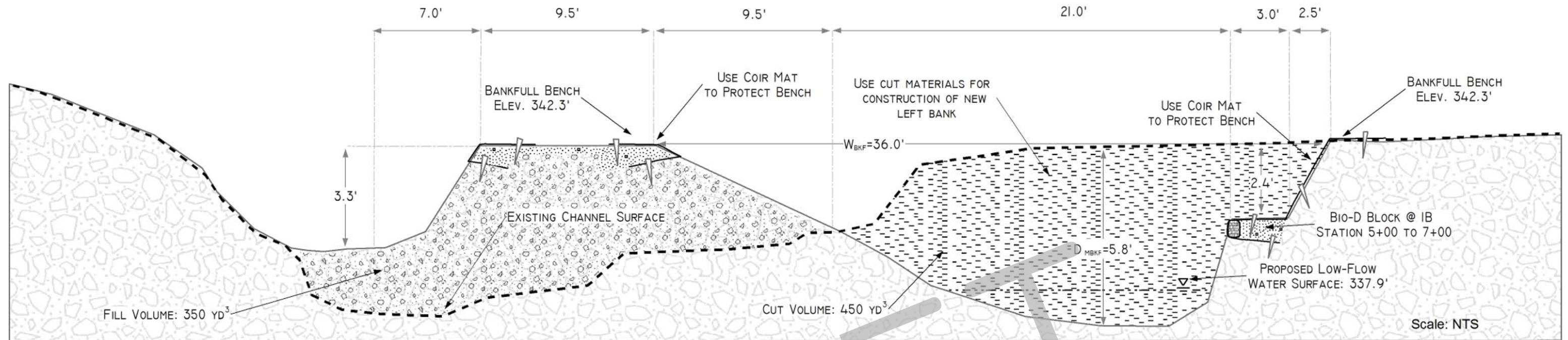


NOTE: Place coir fabric on all disturbed areas with seams overlapping in the downstream direction
Fabric shall be fastened to ground using 1"x3"x18" hardwood stakes placed 24" apart.

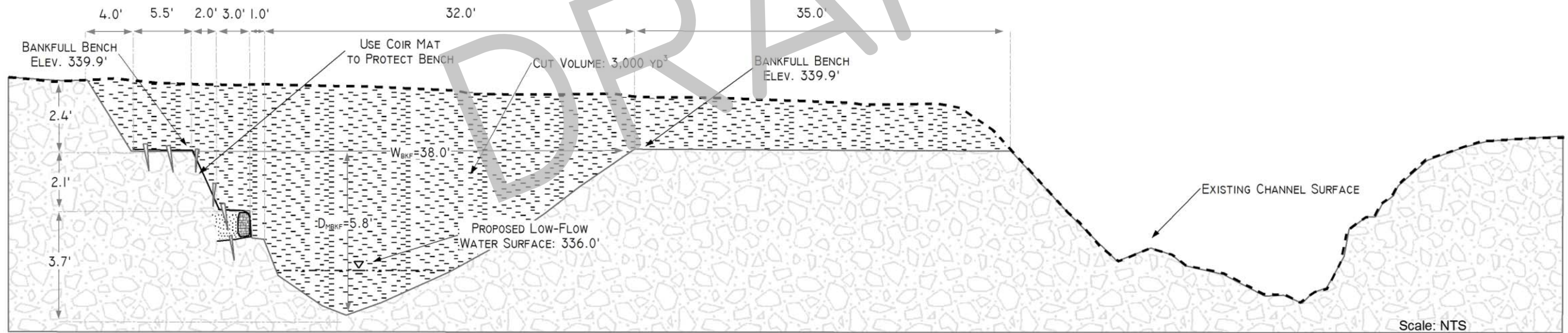


Project: Coleman Creek Restoration War Memorial Park, City of Little Rock, AR		
Sheet No.	County:	Designed By:
13	Pulaski	MVE
	Drawn By:	Date:
	MVE	01/15/2013

CROSS SECTION 3
STATION 5+73



CROSS SECTION 4
STATION 8+16



NOTE: Place coir fabric on all disturbed areas with seams overlapping in the downstream direction

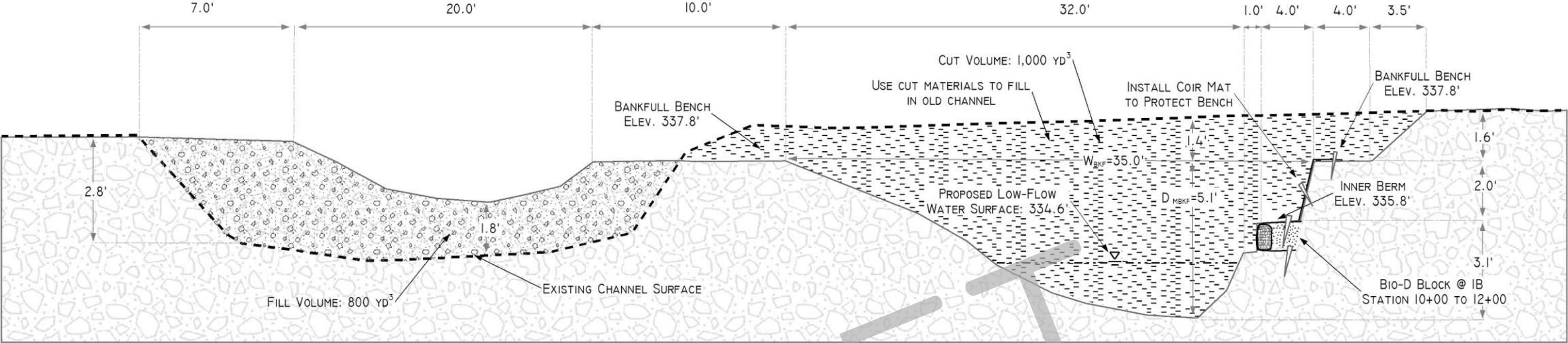
Fabric shall be fastened to ground using 1"x3"x18" hardwood stakes placed 24" apart.



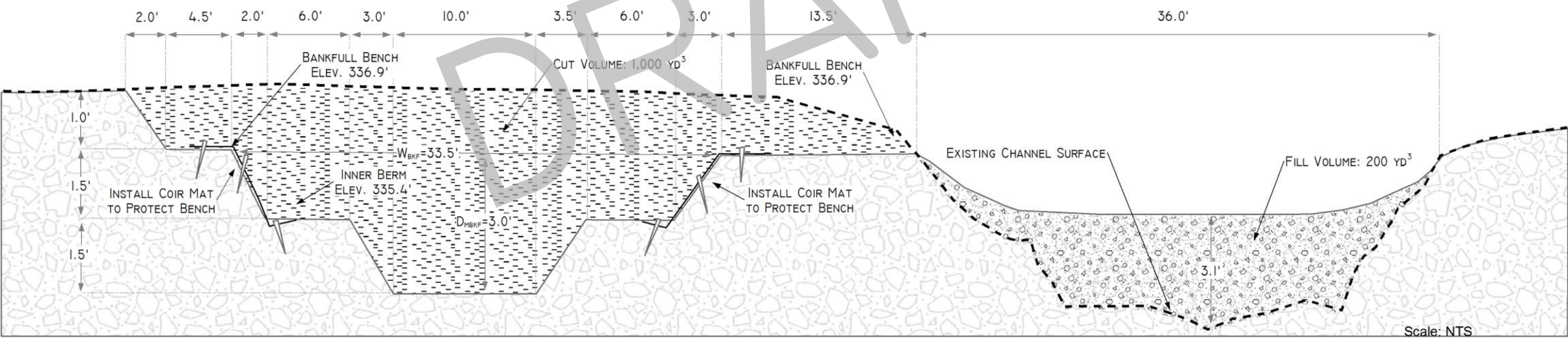
Project: Coleman Creek Restoration War Memorial Park, City of Little Rock, AR		
Sheet No. 14	County: Pulaski	Designed By: MVE
	Drawn By: MVE	Date: 01/15/2013

Cross Section Details

CROSS SECTION 5
STATION 11+00



CROSS SECTION 6
STATION 12+75



Scale: NTS

NOTE: Place coir fabric on all disturbed areas with seams overlapping in the downstream direction

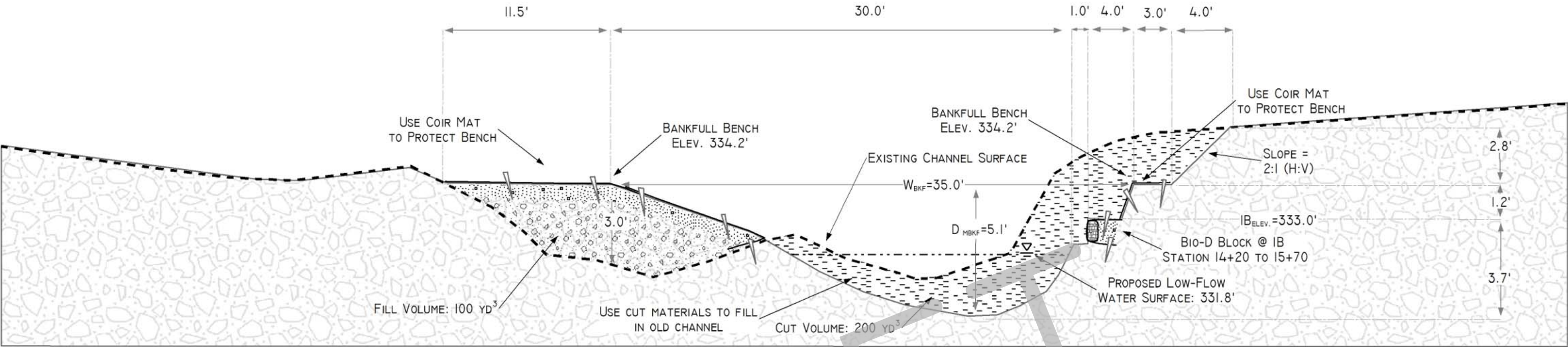
Cut volume estimates based on cut area multiplied by the length between the longitudinal mid-points of consecutive sections. Fabric shall be fastened to ground using 1"x3"x18" hardwood stakes placed 24" apart.



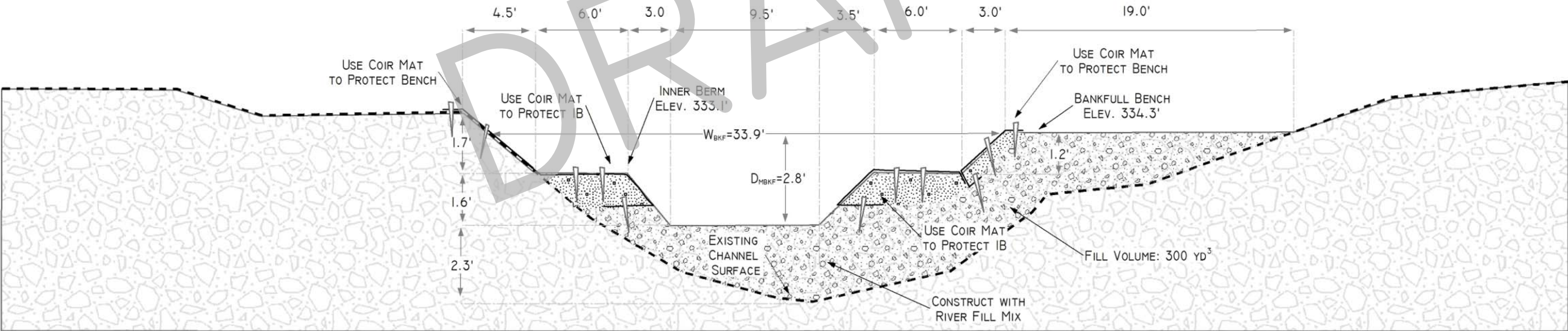
Project: Coleman Creek Restoration War Memorial Park, City of Little Rock, AR		
Sheet No.	County:	Designed By:
15	Pulaski	MVE
	Drawn By:	Date:
	MVE	01/15/2013

Cross Section Details

CROSS SECTION 7
STATION 15+00



CROSS SECTION 8
STATION 15+75



NOTE: Place coir fabric on all disturbed areas with seams overlapping in the downstream direction

Cut volume estimates based on cut area multiplied by the length between the longitudinal mid-points of consecutive sections. Fabric shall be fastened to ground using 1"x3"x18" hardwood stakes placed 24" apart.

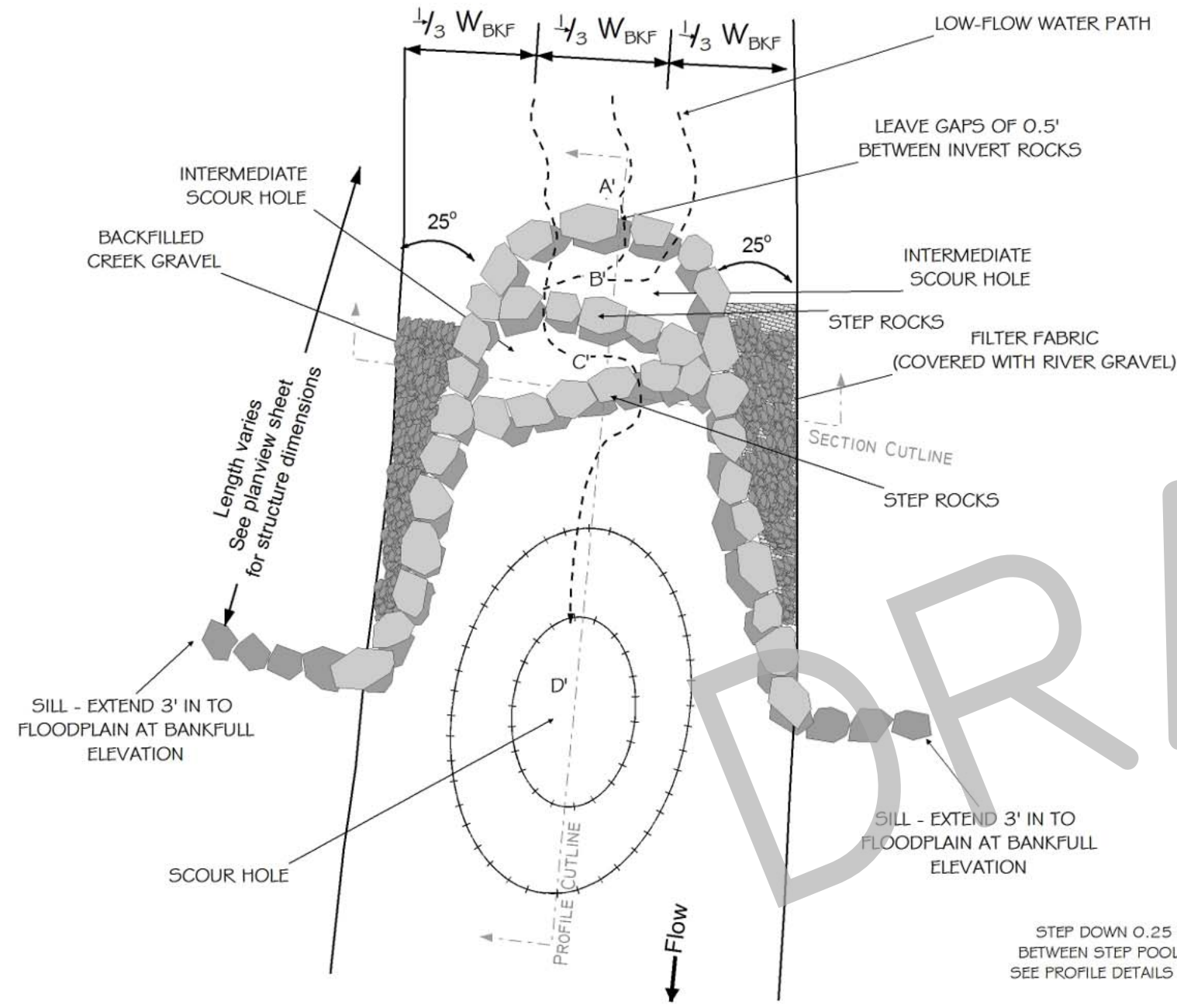


Project: Coleman Creek Restoration War Memorial Park, City of Little Rock, AR		
Sheet No.	County:	Designed By:
16	Pulaski	MVE
	Drawn By:	Date:
	MVE	01/15/2013

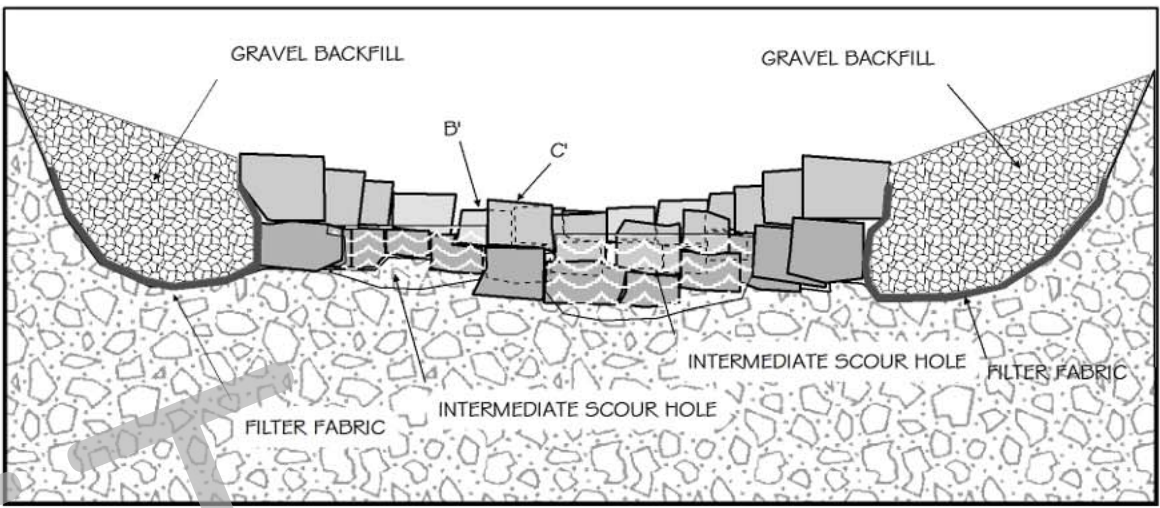
Cross Vane Construction Details

SCALE: NTS

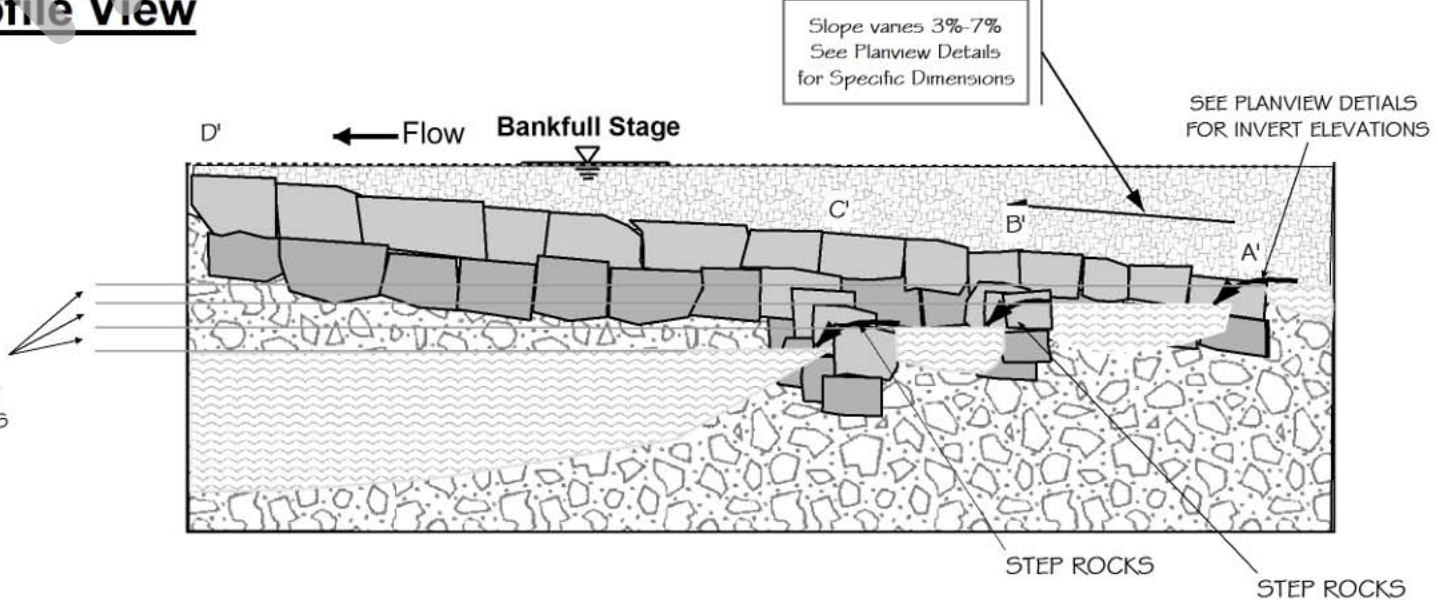
Plan View



Section View



Profile View



NOTES: Minimum rock size is 3' mean diameter or 2 tons.

Fabric shall be draped into a depression excavated between vane arm and streambank then backfilled with gravel. Place filter fabric between streambank and outside edge of vane arms. Fabric should run up to 3/4 of the top rock height and to an equivalent elevation on the bank side.

Fabric shall be draped into intermediate scour holes then back filled with river gravel mixture. Fabric shall be placed into depression and cut so that the fabric rises 3/4 of the height of all walls within the scour hole.

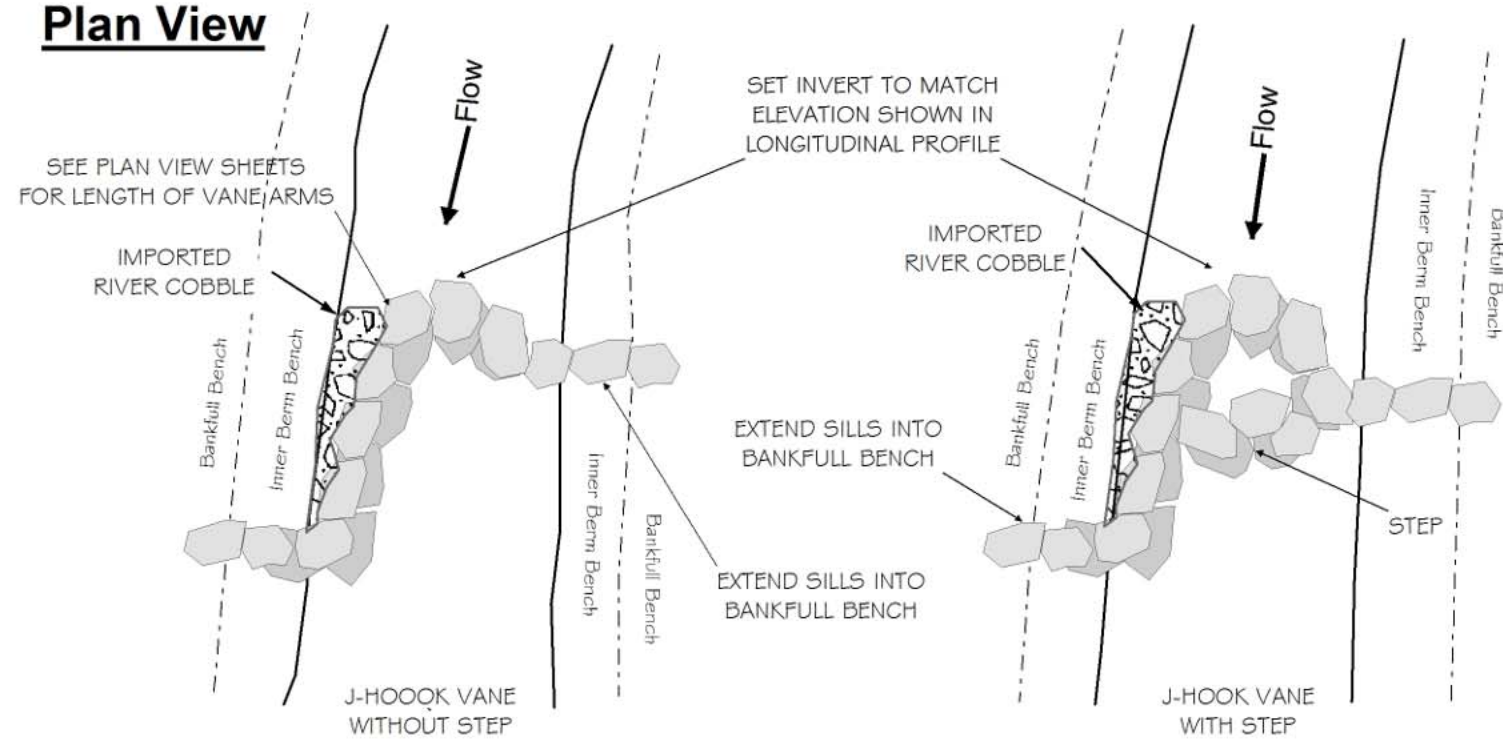
Boulders in drawing are for illustration purposes only and should not be used as the basis for vane construction



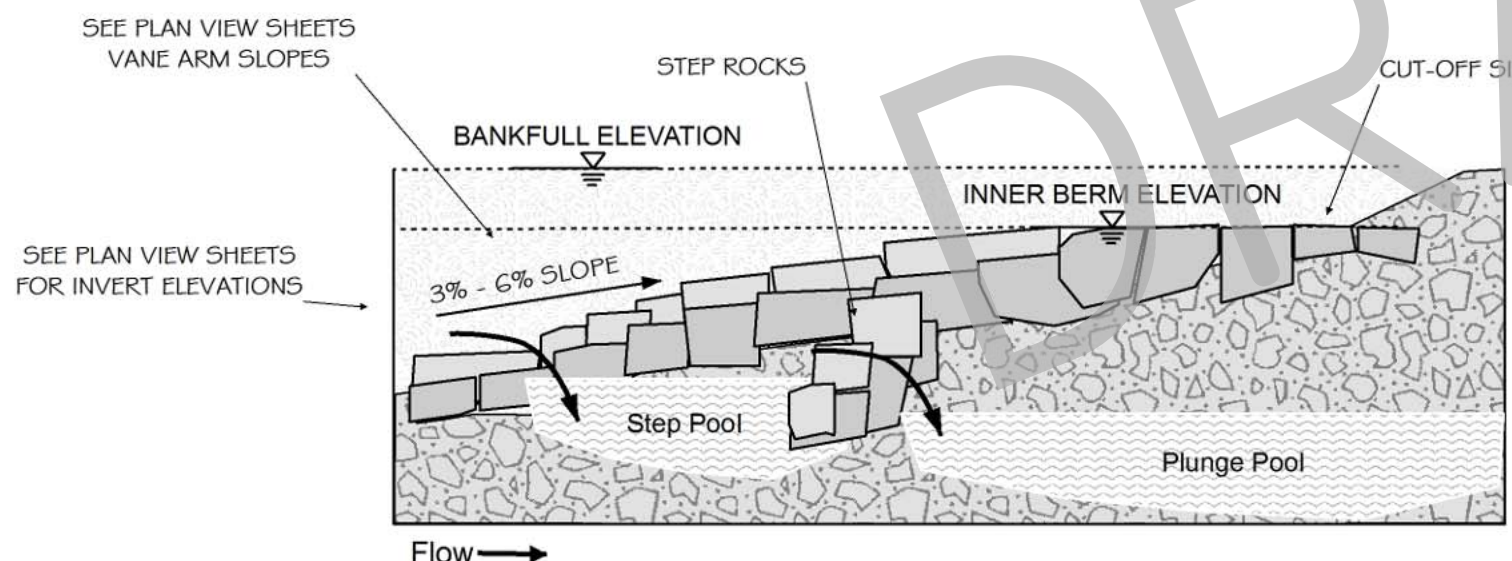
Project: Coleman Creek Restoration War Memorial Park, City of Little Rock, AR		
Sheet No. 17	County: Pulaski	Designed By: MVE
	Drawn By: MVE	Date: 01/15/2013

J-Hook Vane

Plan View



Profile View (With Step)



NOTES: Minimum rock size is 3' mean diameter or 1.5 ton.

In cases where bedrock is encountered, rocks selected for contact with the bedrock will be broad and flat with the same or greater minimum weight to minimize the protrusion heights and to lower the center of gravity of the rock

All rocks shall have a slight backslope towards the bank and in the upstream direction

Place filter fabric inbetween vane arm and streambank then backfill with river gravel mix

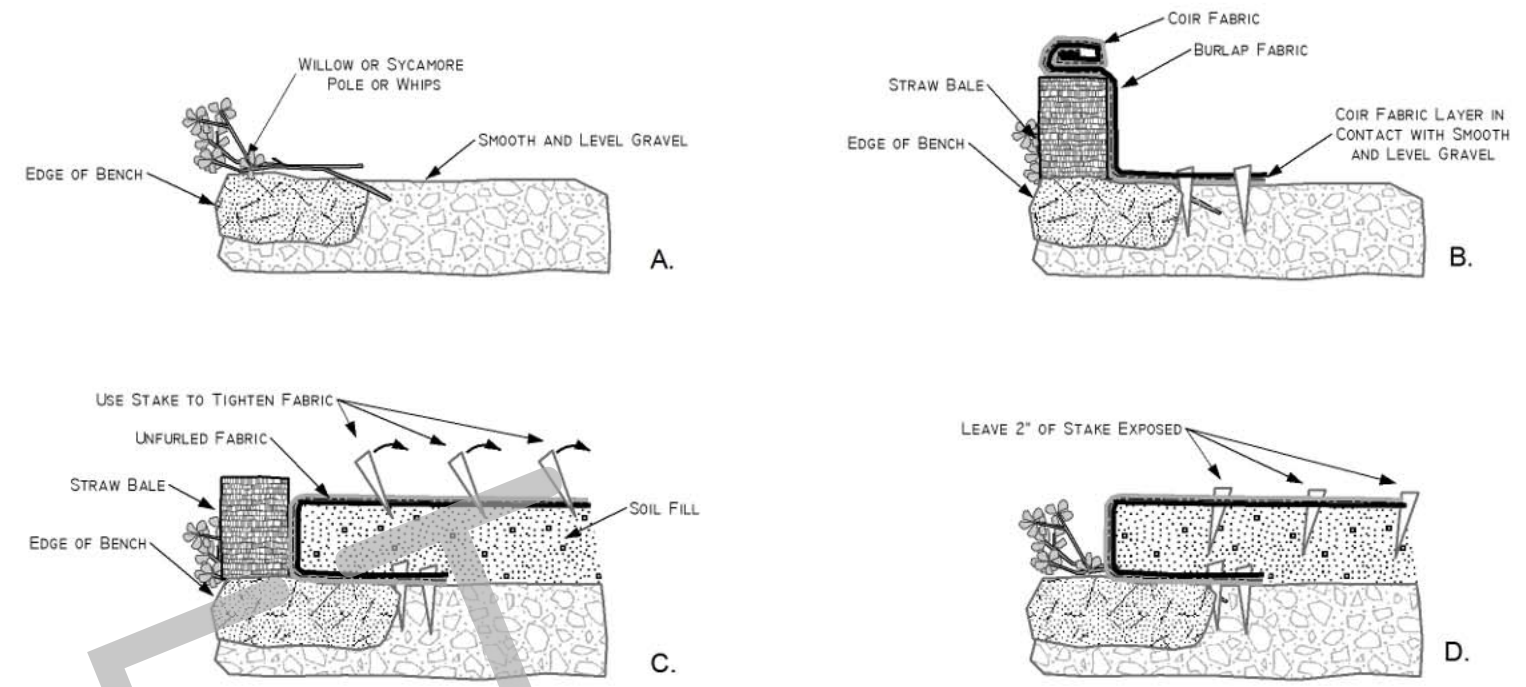
Project Engineer will stake-out structure invert and tie-in locations prior to construction

Boulders in drawing are for illustration purposes only and should not be used as the basis for vane construction

Construction Details

SCALE: NTS

Soil Mattress Assembly and Installation



1. The soil mattress will be constructed using Koir Mat 1000. The material is composed of two layers. One layer is a woven 700 g/m2 coconut fiber grid. This layer provides 3 to 5 year structure that will allow plants to root and mature. The other layer, composed of a woven jute fiber fabric, prevents soil from being siphoned out of the soil mattress through the openings in the coir fabric. The two layers are joined together with a jute thread.
2. Finish sub-grade to 1' below finished elevation by smoothing and leveling with river gravel. (A)
3. Lay willow or sycamore cuttings on finished sub grade. (A)
4. Place a row of rectangular straw bales so that the narrow edge is on the ground and runs along the edge of the bench being constructed. (B)
5. Starting at the upstream end, unroll 50' of Koir Mat 1000 and cut the fabric. (B)
6. Place the fabric so that the coir side of the material is in direct contact with the gravel and the edge of the fabric is 3 feet from the straw bale. (B)
7. Place the remaining fabric on top of the straw bale. (B)
8. Using 24" hardwood wedge stakes, fasten the fabric to the subgrade, placing the stakes every 2 feet staggered in rows 6" and 24" from the edge of the fabric. (B)
9. Place topsoil on top of the fabric to a depth of 16" and compact with excavator bucket. (C)
10. Unfurl the Koir Mat 1000 back over the topsoil. (C)
11. Fasten the Koir Mat 1000 using 24" hardwood wedge stakes by slightly driving the wedge at an angle into the ground and towards the river with a hammer. Using the wedge for leverage, pull the fabric tight and drive the stake further. Stakes shall have a slight angle away from the river as they are driven in. An excavator can be used to finish driving the wedge stake into the constructed bench. Approximately 2" of the wedge shall remain visible once the stake has been completely driven into the ground. (C & D)
12. Stakes shall be placed every 3 foot staggered in rows that are 6", 36", and 72" from the fabric edge. (D)

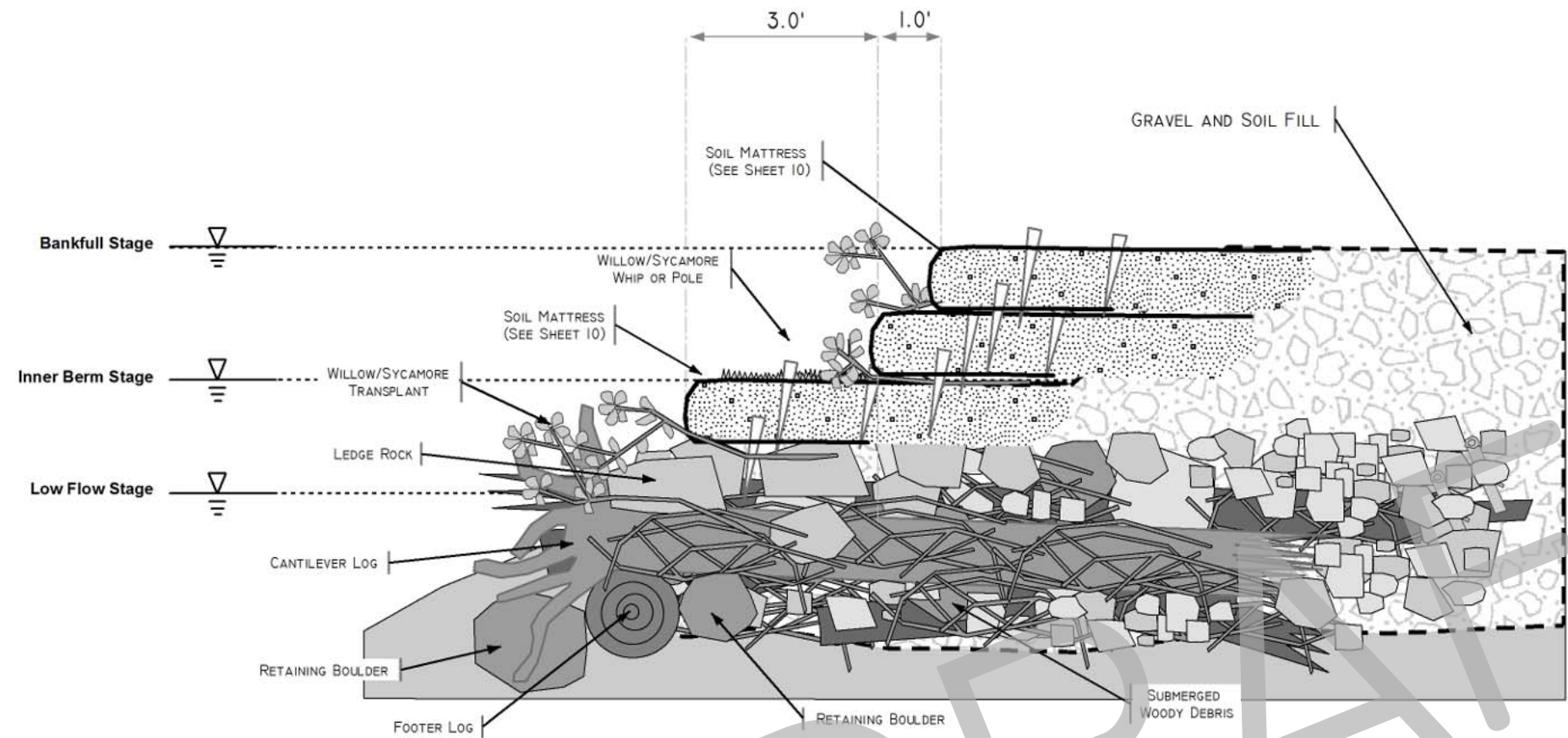


Project: Coleman Creek Restoration War Memorial Park, City of Little Rock, AR		
Sheet No. 18	County: Pulaski	Designed By: MVE
	Drawn By: MVE	Date: 01/15/2013

Construction Details

Toe Wood Installation

SCALE: NTS



TOE WOOD TOE IS CONSTRUCTED BY PLACING A FOOTER LOG ALONG THE EDGE OF THE PROPOSED BANK. THE BED MATERIAL SHALL BE EXCAVATED TO BEDROCK WHERE THE FOOTER LOG IS PLACED IN A MANNER THAT IS 10 TO 20 DEGREES AWAY FROM PARALLEL OF THE PROPOSED BANK. THE ROOT WAD SHALL BE SCRAPED SO THAT THE ROOT WAD IS FLAT WHERE IT MAKES CONTACT WITH THE BEDROCK. LARGE BOULDERS SHALL BE PLACED IN FRONT, BEHIND, AND ON TOP OF THE FOOTER LOG SO AS TO PREVENT MOVEMENT DUE TO WATER DRAG OR BUOYANCY. CANTILEVER LOGS ARE THEN PLACED PERPENDICULAR TO THE FOOTER LOG. COARSE ROCK, GRAVEL AND WOODY DEBRIS SHALL BE PLACED TO FILL THE VOIDS AS THE BENCH IS CONSTRUCTED. LOGS SHALL NEVER BE PLACED IN A MANNER THAT THEY ARE PARALLEL TO THE STREAM FLOW. BOULDERS SHALL BE PLACED PERIODICALLY IN BETWEEN THE WOOD AND ALONG THE EXPOSED FACE OF THE FEATURE.

LIVE TREES SHALL BE INCORPORATED INTO THE TOE WOOD BENCH WHEN AVAILABLE BY TRANSPLANTING TREES INTO THE BOULDER, WOOD, AND GRAVEL MATRIX. WHEN INCORPORATING THE LIVE TREES, SOME PORTION OF THE TREE SHALL REMAIN EXPOSED SO PHOTOSYNTHESIS CAN TAKE PLACE AND THE TREES WILL GROW AND PROTECT THE BENCH.

THE WOOD IN THE NEXT LAYER SHALL BE PLACED SO THAT IT FORMS OBLIQUE ANGLES WITH THE FIRST LAYER OF WOOD. VOIDS SHALL BE FILLED WITH FILL MATERIAL OF GRAVEL AND SOIL APPROVED BY THE ENGINEER AS THE LAYERS ARE CONSTRUCTED IN LIFTS. SEE THE DETAIL ON THE DRAWINGS.

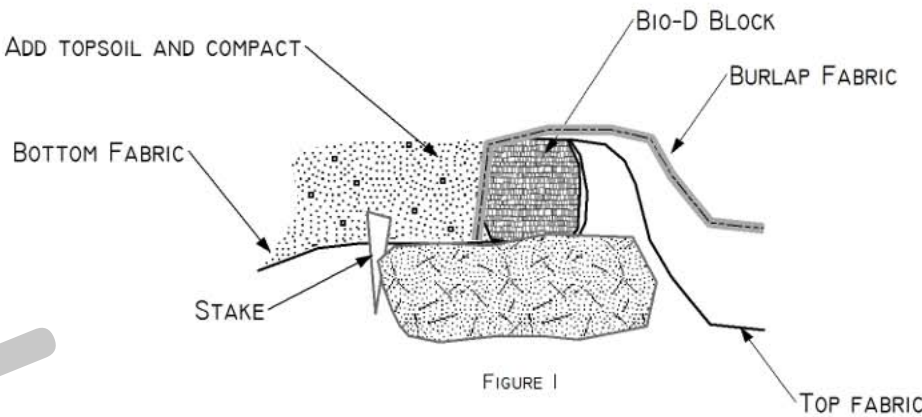
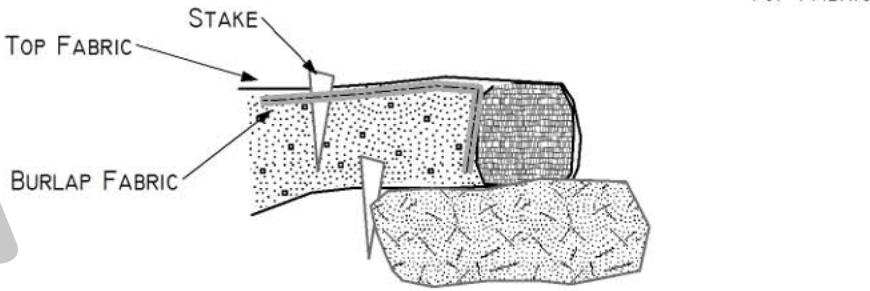
ALL WOOD PLACED IN THE INNER BERM PORTION OF THE TOE WOOD BENCH SHALL REMAIN SUBMERGED DURING BASE-FLOW CONDITIONS.

THE TOE WOOD BENCH SHALL BE BUILT TO AN ELEVATION THAT IS 1.0 FOOT LESS THAN THE FINISHED INNER BERM ELEVATION AS SHOWN ON THE CROSS-SECTION DETAIL. THE WOOD AND ROCK SHALL EXTEND INTO THE FORMER CHANNEL LEAST 20 FEET. ANY VOIDS MUST BE BACKFILLED WITH STREAM GRAVEL AND COARSE FILL AS THE BENCH IS CONSTRUCTED. BOULDERS SHALL BE PLACED ON TOP OF LOGS AND LIMBS SO AS TO REDUCE THE BUOYANCY OF THE WOODY MATERIALS INCORPORATED INTO THE BENCH. FLAT BOULDERS WILL BE USED TO CREATE A LEDGE ALONG THE EDGE OF THE BANK, UPON WHICH, THE SOIL MATTRESS WILL BE CONSTRUCTED.

PRIOR TO CONSTRUCTING THE SOIL MATTRESS, WILLOW AND SYCAMORE CUTTINGS SHALL BE PLACED ALONG THE EDGE OF THE BENCH PERPENDICULAR TO THE RIVER WITH 1.0 FOOT OF STEM REMAINING VISIBLE AFTER CONSTRUCTION OF THE SOIL MATTRESS.

ADDITIONAL SOIL MATTRESSES SHALL BE CONSTRUCTED AS SHOWN IN THE DETAIL ABOVE. WILLOW AND SYCAMORE WHIPS AND POLES SHALL BE PLACED ON THE SUB GRADE PRIOR TO CONSTRUCTING THE ADDITIONAL SOIL MATTRESSES.

BioD-Block Assembly and Installation



1. BEFORE INSTALLING BioD-BLOCK COIR BLOCK SYSTEM, CLEAN AND LEVEL THE EXCAVATED BENCH OR STACKED ROCK WALL.
2. STARTING AT THE UPSTREAM END, PLACE A BioD-BLOCK UNIT ON LEVEL SURFACE, KEEPING THE FEMALE END TOWARDS THE DOWNSTREAM DIRECTION, AND SPREAD THE BOTTOM FABRIC. ANCHOR THE BOTTOM FABRIC TO THE GROUND WELL WITH WOODEN STAKES. USING METAL STAPLES, FASTEN BURLAP FABRIC TO INSIDE EDGE OF COIR BLOCK. FILL SOIL UP TO THE HEIGHT OF THE COIR BLOCK (FIG. 1) AND MECHANICALLY COMPACT THE FILLED SOIL WELL. ADD ADDITIONAL SOIL AFTER COMPACTING SO THAT THE FINISHED LEVEL IS JUST SLIGHTLY GREATER THAN THE HEIGHT OF THE COIR BLOCK. COVER THE COMPACTED FILLED MATERIAL WITH BURLAP FABRIC.
3. TIGHTEN BURLAP AND FASTEN TO COMPACTED SOIL USING METAL STAPLES. COVER BURLAP WITH TOP FABRIC AND ANCHOR IT WELL WITH WOODEN STAKES (FIG. 2). STAKES SHOULD BE PLACED 2 FEET FROM STREAMWARD EDGE OF BLOCK.
4. JOIN BioD-BLOCK BY INSERTING MALE END OF SECOND BioD-BLOCK TO FEMALE END OF FIRST BioD-BLOCK. MAKE SURE TO DRIVE STAKES THROUGH OVERLAPPING FABRICS OF TWO BioD-BLOCK UNITS AT THEIR CONNECTION. ONCE AGAIN, DO NOT DRIVE STAKES ALL THE WAY. KEEP ADDING BioD-BLOCK UNITS UNTIL DESIRED LENGTH IS ACHIEVED.
5. USE A MINIMUM 1" X 3" X 18" HARDWOOD WEDGE STAKE AT EVERY 2 FT TO ANCHOR THE BOTTOM FABRIC TO THE GROUND BEFORE FILLING WITH SOIL AND 1" X 3" X 18" WEDGE STAKES 2 FOOT O.C. ON THE TOP FABRIC AFTER FILLING WITH SOIL.



WATERSHED CONSERVATION
RESOURCE CENTER



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