

Sierra Bella Park Channel Repair
EMERGENCY WATERSHED PROTECTION PROGRAM

Washington County, Utah

PREPARED BY
U.S. DEPARTMENT OF AGRICULTURE

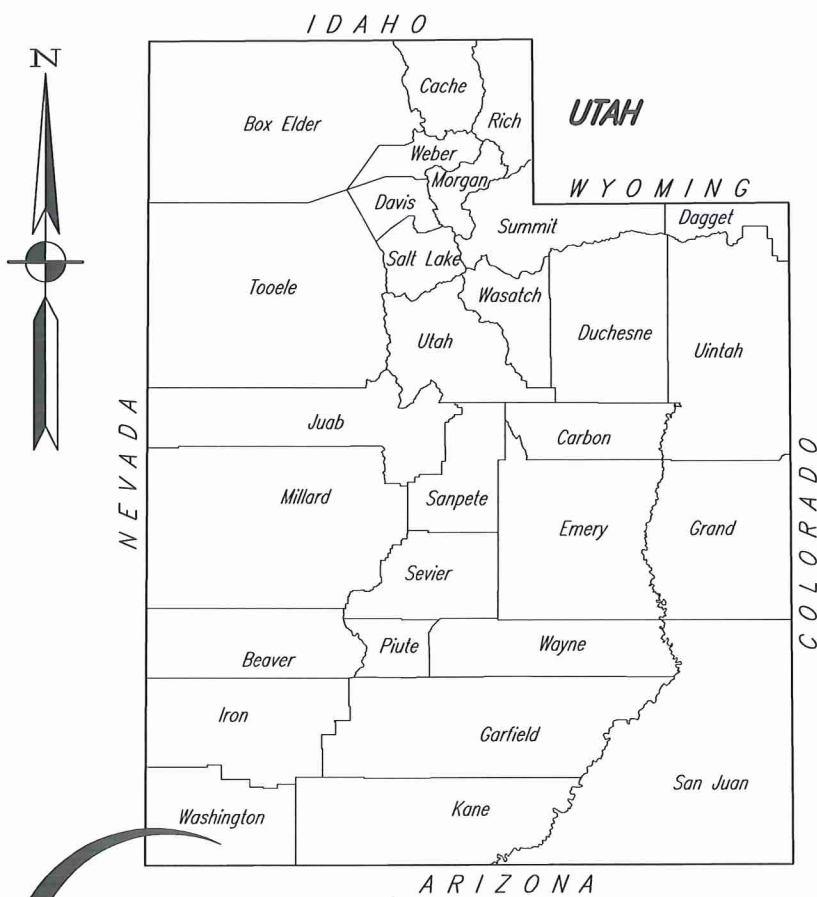
NATURAL RESOURCES CONSERVATION SERVICE

Date 11/2016
Designed JWM
Drawn JWM
Checked JWM
Approved JWM

Sierra Bella Park Channel Repair
Cover
Town of Virgin
Washington County, Utah



File Virgin2016EWP
Project No. ---
11/2016
Sheet 1 of 7



Sheet List Table	
Sheet Number	Sheet Title
1	Cover
2	Site Plan
3	Profile View
4	Site Plan Downstream of Culvert
5	Channel Details
6	Channel & Riprap Details
7	Site Plan Upstream of Culvert

This project is partially funded by NRCS through the Emergency Watershed Program (EWP).

GENERAL NOTES
The attached NRCS Construction and Material Specifications are part of this plan and shall govern the installation of this project.

This project shall be constructed to the lines and grades shown in the drawings and detailed in the Construction Specifications.

Drawings show relative project coordinates in feet for vertical control.

All stationing refers to centerline of construction and is the measured horizontal distance.

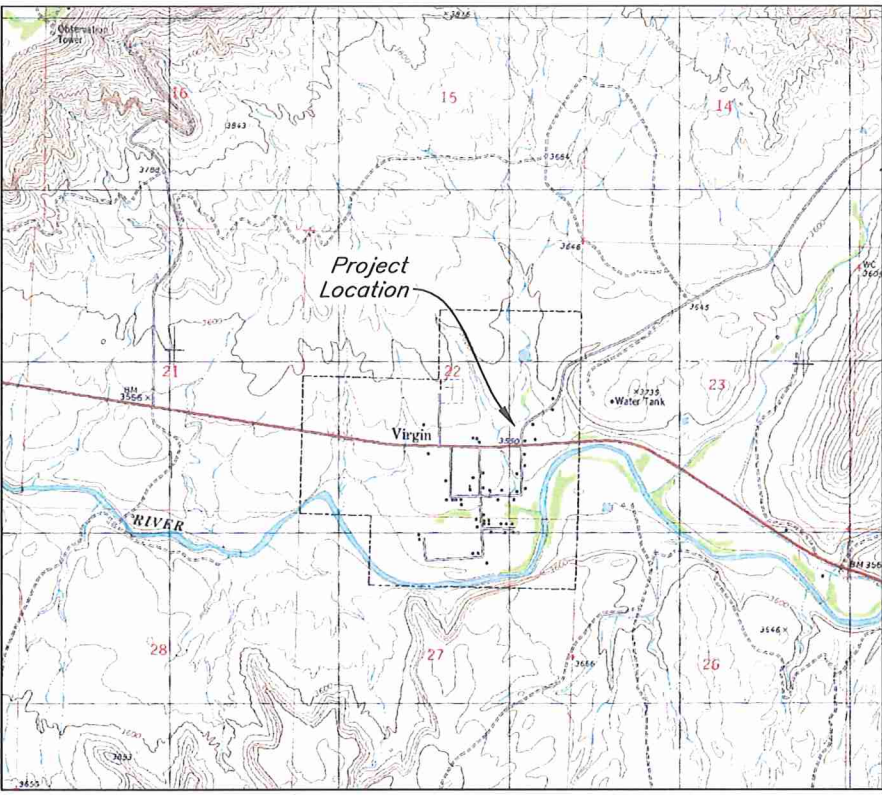
The vertical accuracy of contour lines is approximately one half of the contour interval shown in any given area of this plan.

RESPONSIBILITY OF PERMITS
The NRCS does not assume any responsibility in the determination, application and/or securing of any necessary permits for the construction and operation of this project. All permits are the responsibility of the owner, operator and/or contractor.

REVIEW AND ACCEPTANCE
The drawings, Construction and Material Specifications for this project have been reviewed by me and are accepted for installation. I also acknowledge that any modifications implemented prior to review and approval by the NRCS may result in NRCS disapproval of this installation. I hereby acknowledge receipt of a copy(ies) of this plan.

SPONSOR APPROVING AUTHORITY DATE

1-13-17
NRCS APPROVING AUTHORITY DATE



VICINITY MAP
SEC 22, T. 41 S., R. 12 W.

LEGEND

- Section or Detail
- Sheet where section or detail is shown

UTILITY STATEMENT

No representation is made as to the existence or nonexistence of any utilities, public and/or private, buried or overhead, except as shown on the drawings. Where utilities are shown on the drawings, the location, depth and/or height are approximate. The exact location, depth and/or height must be determined by the utility company prior to any construction in the vicinity of the utility.

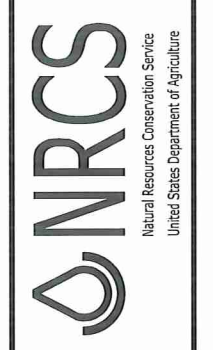
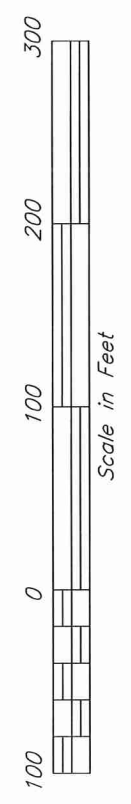
CALL BEFORE YOU DIG.
IT'S FREE & IT'S THE LAW.

BLUE STAKES OF UTAH
Utility Notification Center, Inc.
1-800-662-4111
www.bluestakes.org

Dig Safely 811



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geogra
Getmapping, Aerogrid, IGN, IGP, swisstopo, and the C



File
Virgin2016EWP_rev15d.doc
Project No.

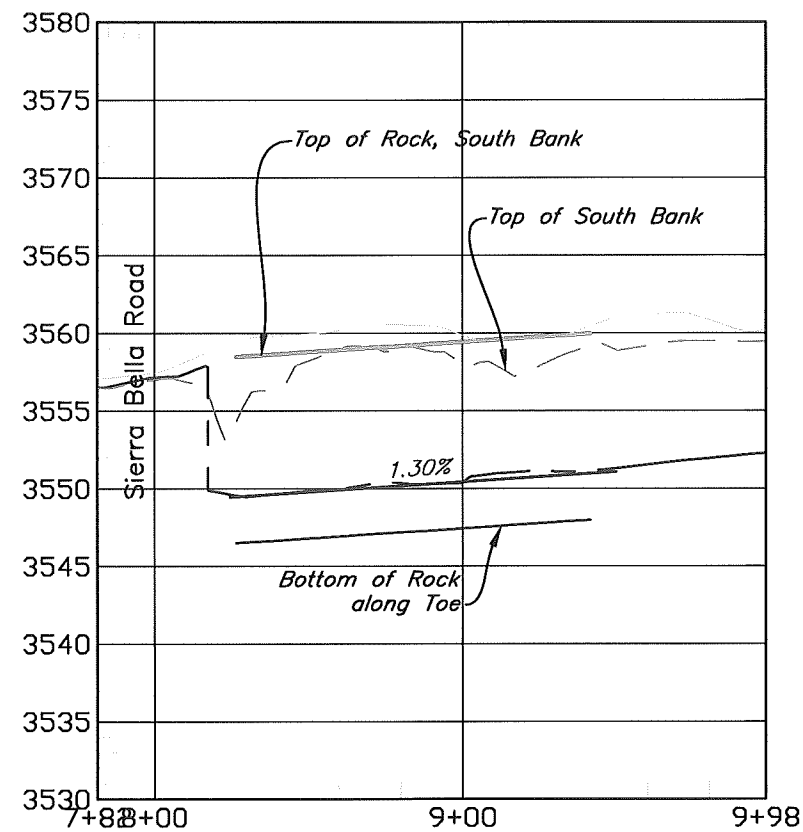
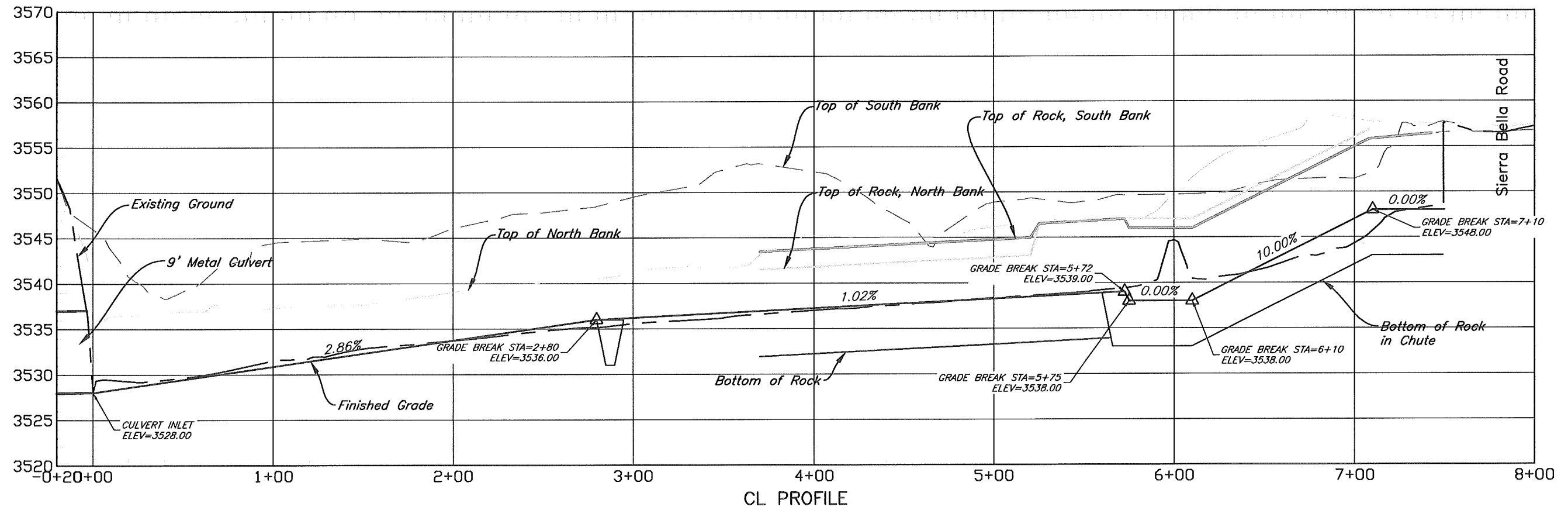
11/2016
Sheet 2 of 7

Sierra Bella Park Channel Repair Site Plan

Town of Virgin
Washington County, Utah

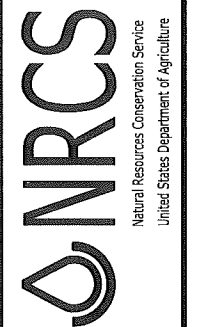
Job Class V

Designed	JMM	Date	11/2016
Drawn	JMM		11/2016
Checked			
Approved			

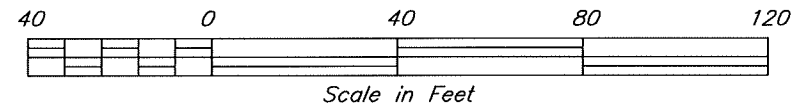
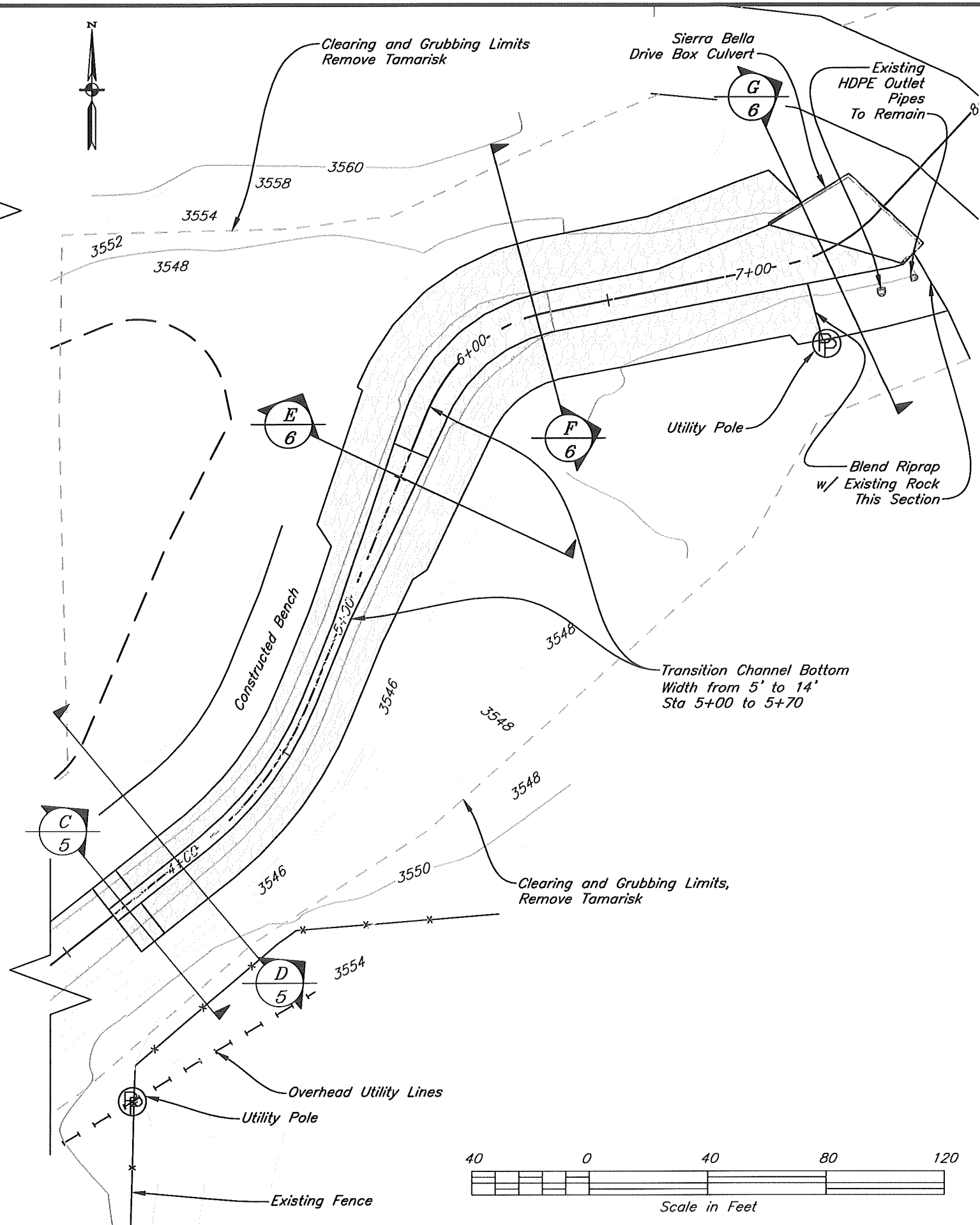
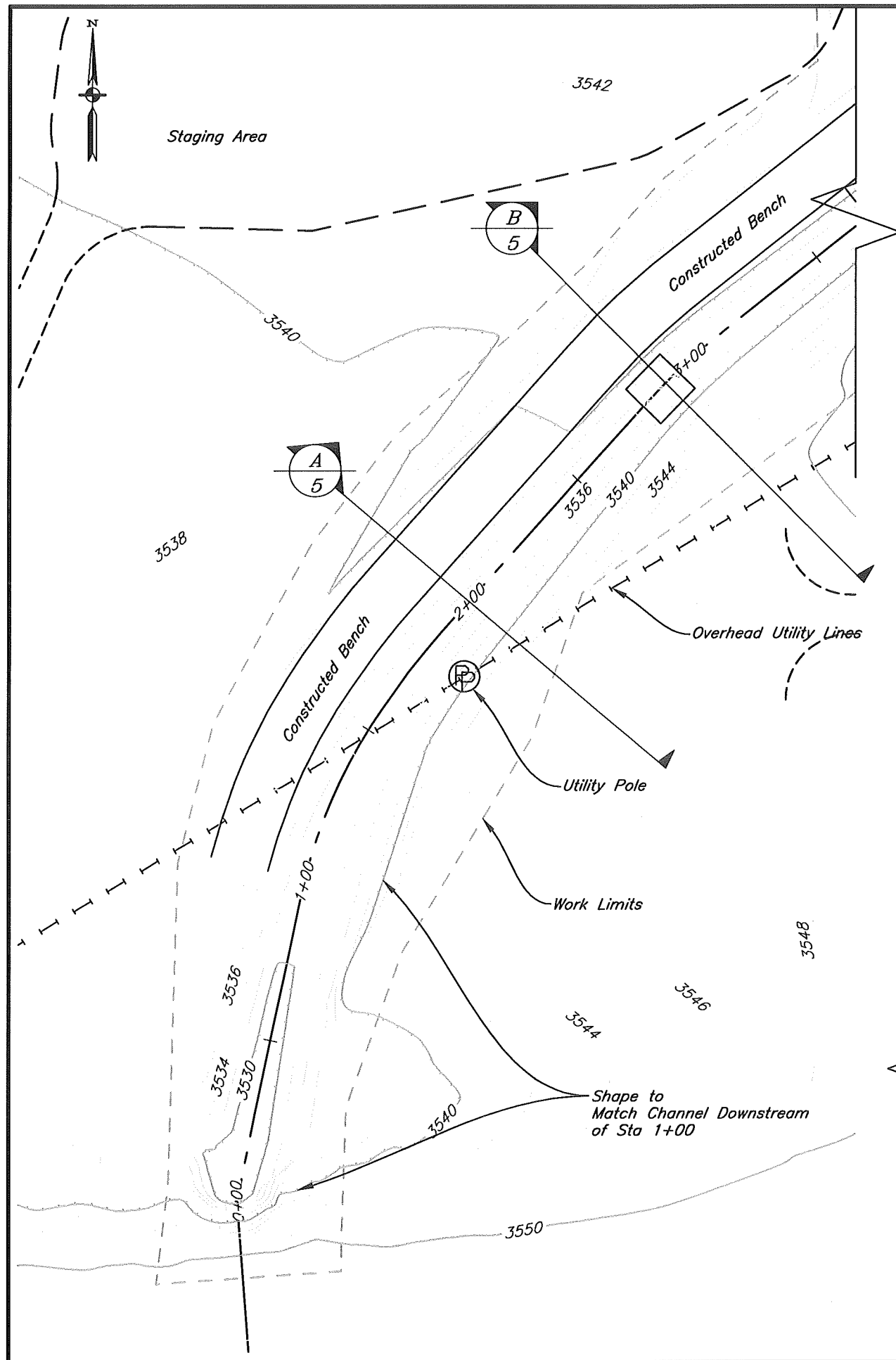


Date 11/2016
 Designed JMM
 Drawn JMM
 Checked _____
 Approved _____

Sierra Bella Park Channel Repair
 Profile View
 Town of Virgin
 Washington County, Utah



File
 Virgin2016EWP_rev15.doc
 Project No. ---
 11/2016
 Sheet 3 of 7



Natural Resources Conservation Service
United States Department of Agriculture

File
Virgin2016EWP_rev15d.doc

Project No.

11/2016
Sheet 4 of 7

Sierra Bella Park Channel Repair PlanView DS of Culvert

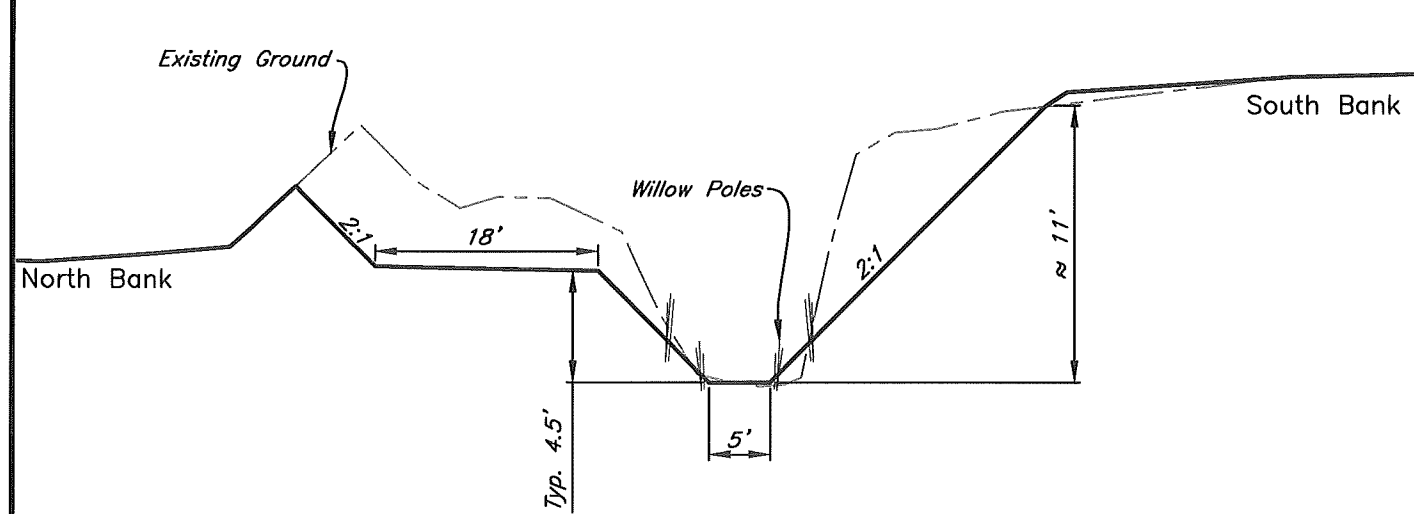
Town of Virgin
Washington County, Utah

Job Class V

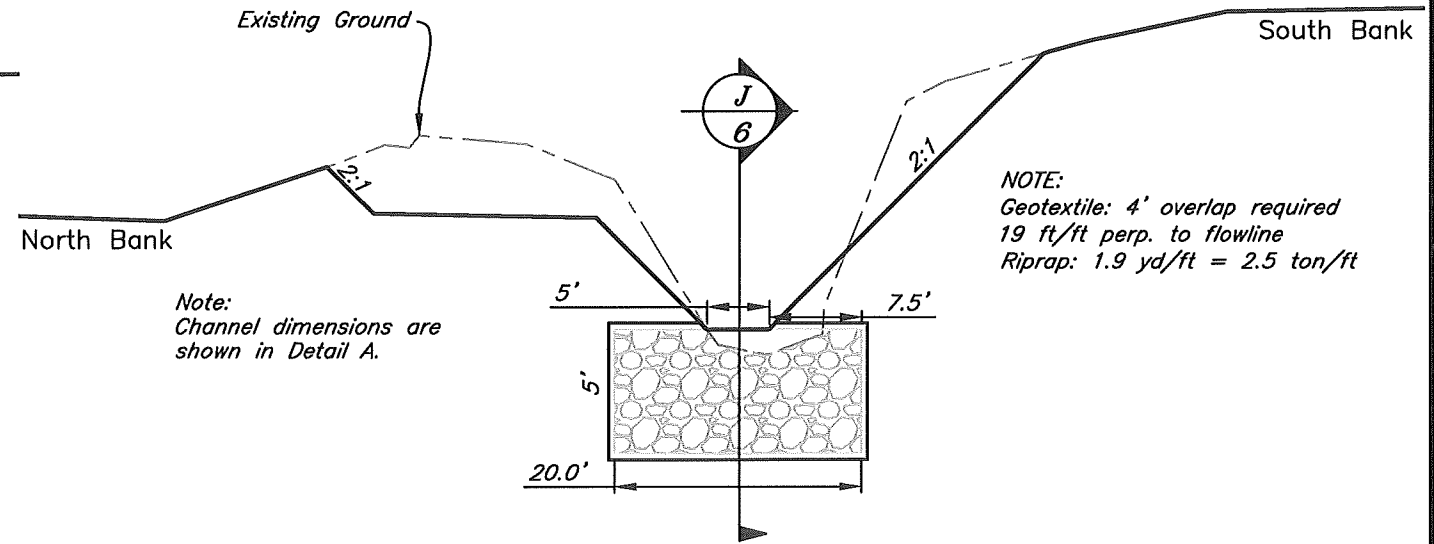
Designed	JWM	Date	11/2016
Drawn	JWM		
Checked			
Approved			

NOTE: WILLOW POLE PLANTINGS

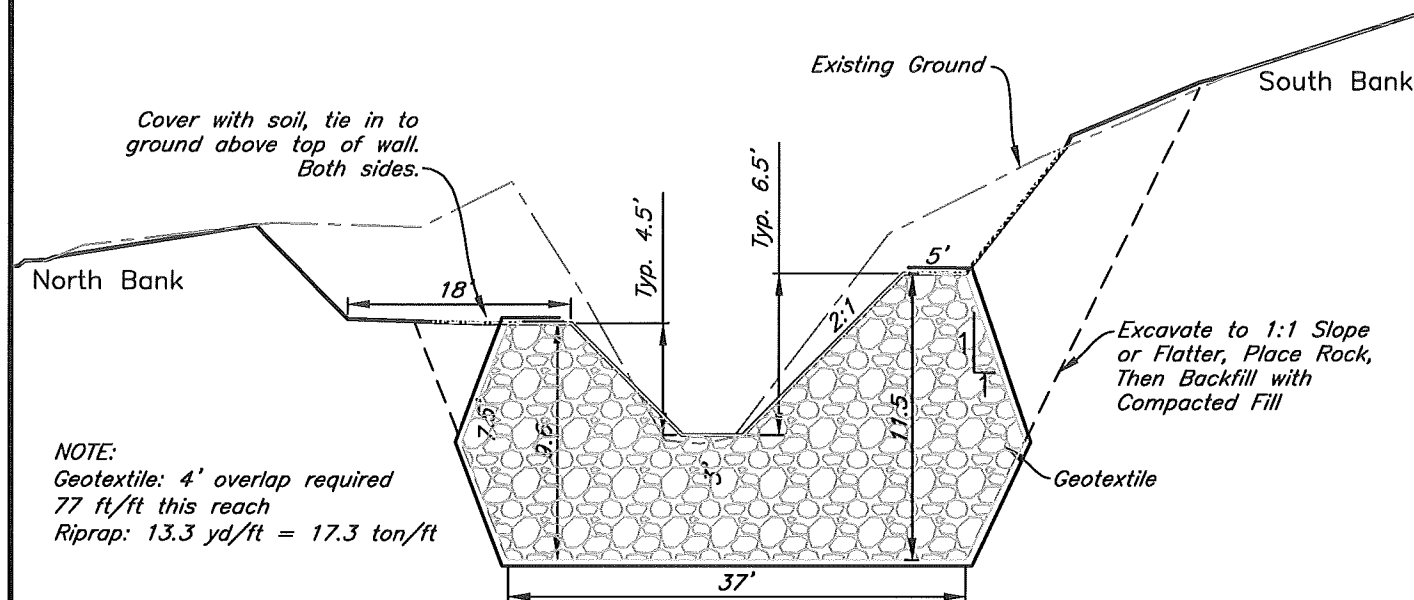
Two rows of willow poles shall be planted where the channel slopes have been graded. The first row of willow poles shall be planted at the toe of the grade. The second row will be planted 3' measured horizontally up the bank. The willows in the rows shall be staggered. Single willow poles shall be planted every 4'.



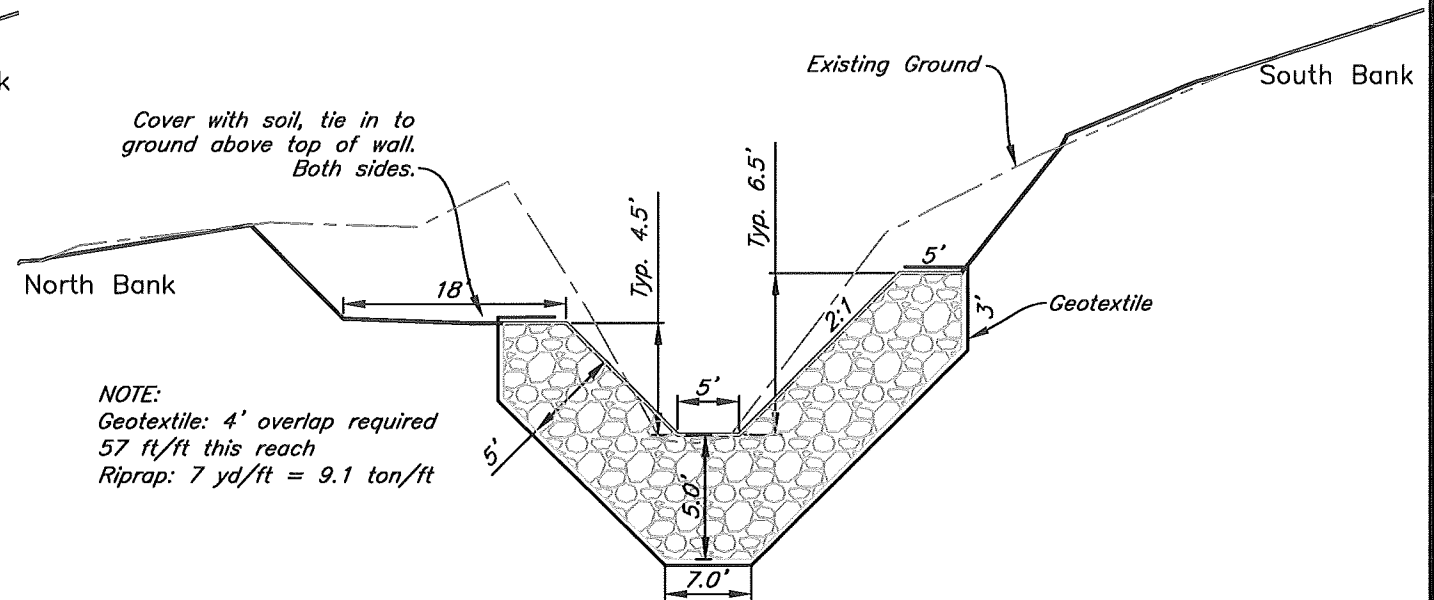
A Typical Section, Sta 1+00 - 3+70
N.T.S.



B Grade Stabilization at Sta 2+80
N.T.S.



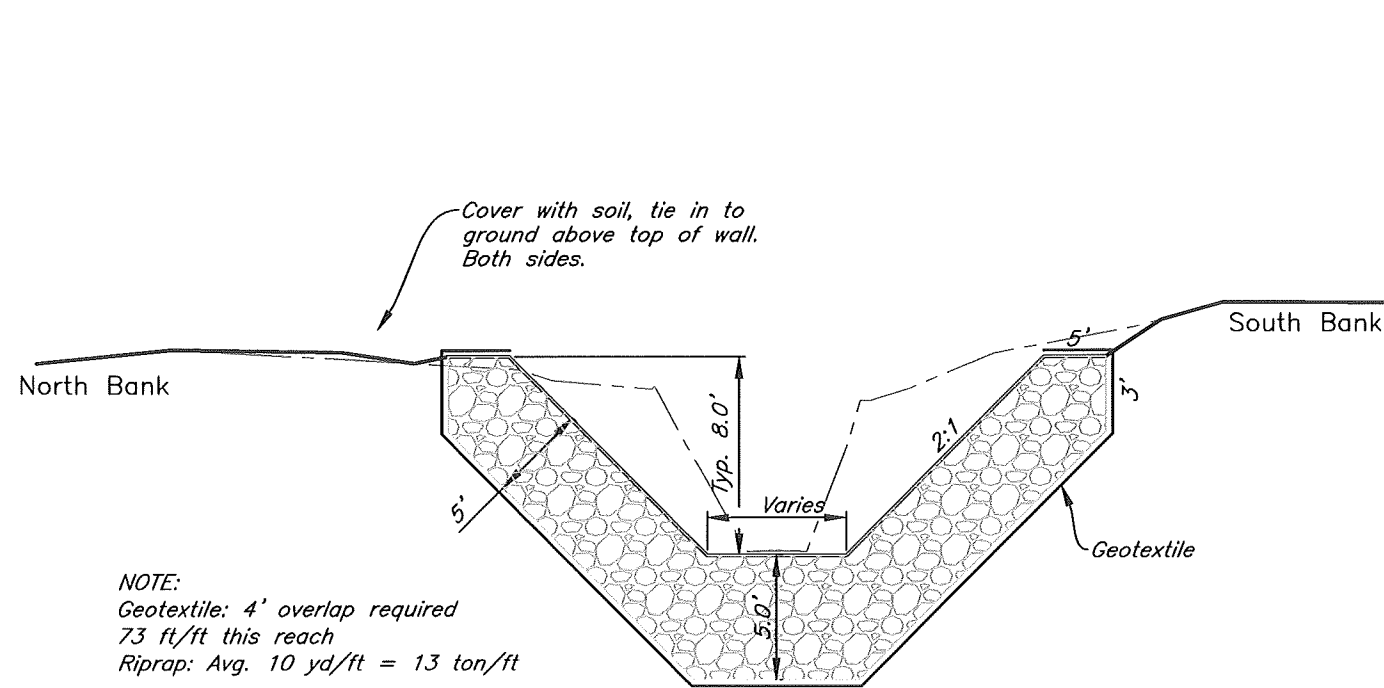
C Typical Section, Sta 3+70 - 3+80
N.T.S.



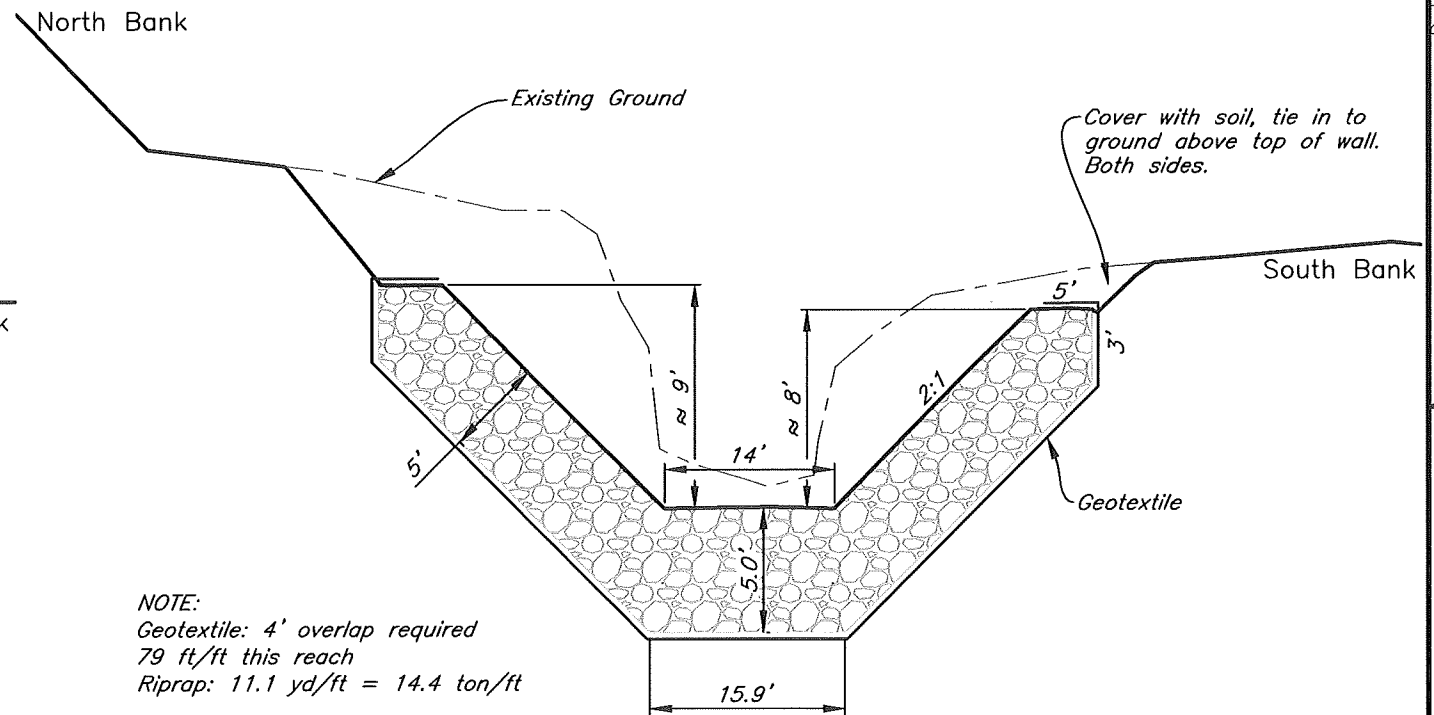
D Typical Section, Sta 3+80 - 5+20
N.T.S.

Note: All sections looking upstream

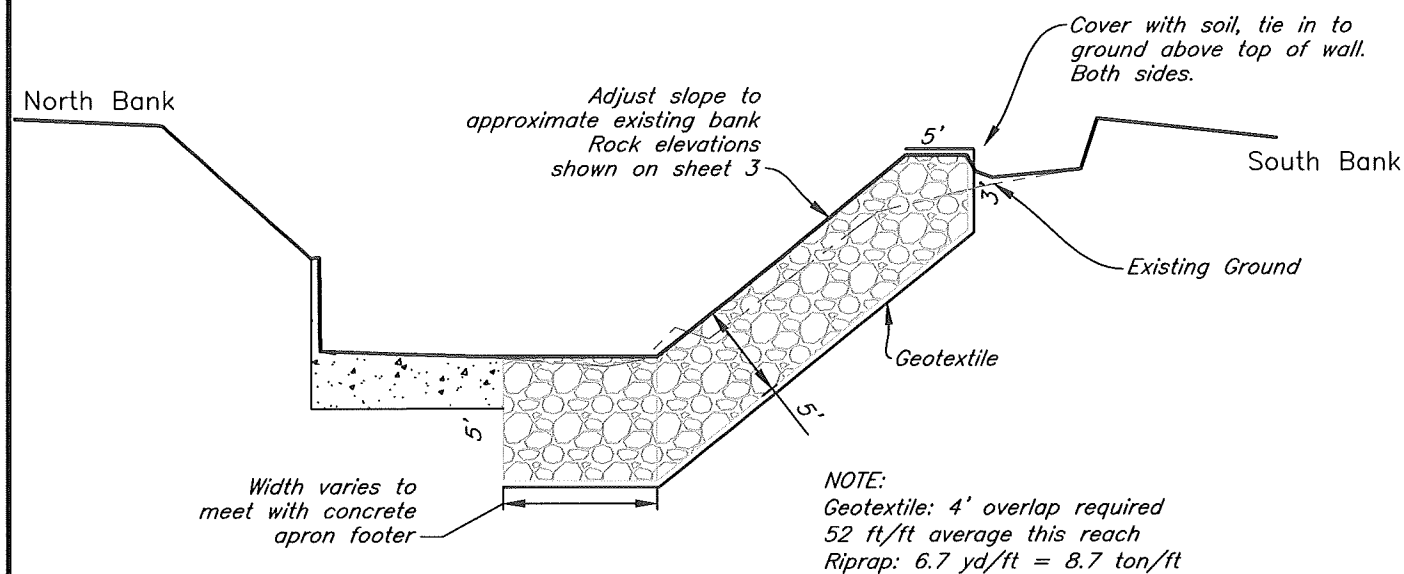
Date	11/2016
Designed JMM	11/2016
Drawn JMM	11/2016
Checked	
Approved	
Job Class V	
Sierra Bella Park Channel Repair	
Channel Details	
Town of Virgin	
Washington County, Utah	
Natural Resources Conservation Service United States Department of Agriculture	
File	Virgin2016EWP_rev15d.doc
Project No.	
11/2016	
Sheet 5 of 7	



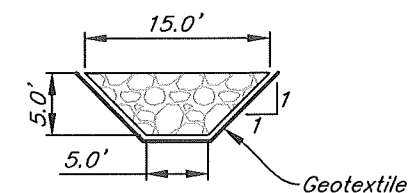
E Typical Section, Sta 5+20 - 5+60
N.T.S.



F Typical Section, Sta 5+60 - 7+08
N.T.S.



G Typical Section, Sta 7+08 - 7+43
N.T.S.

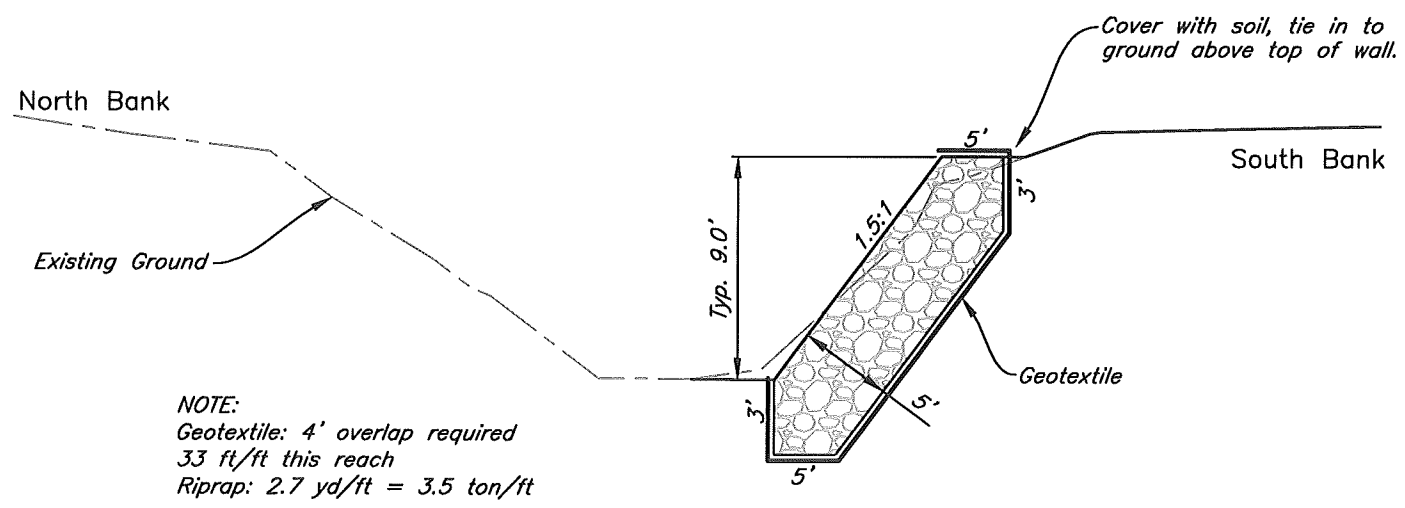
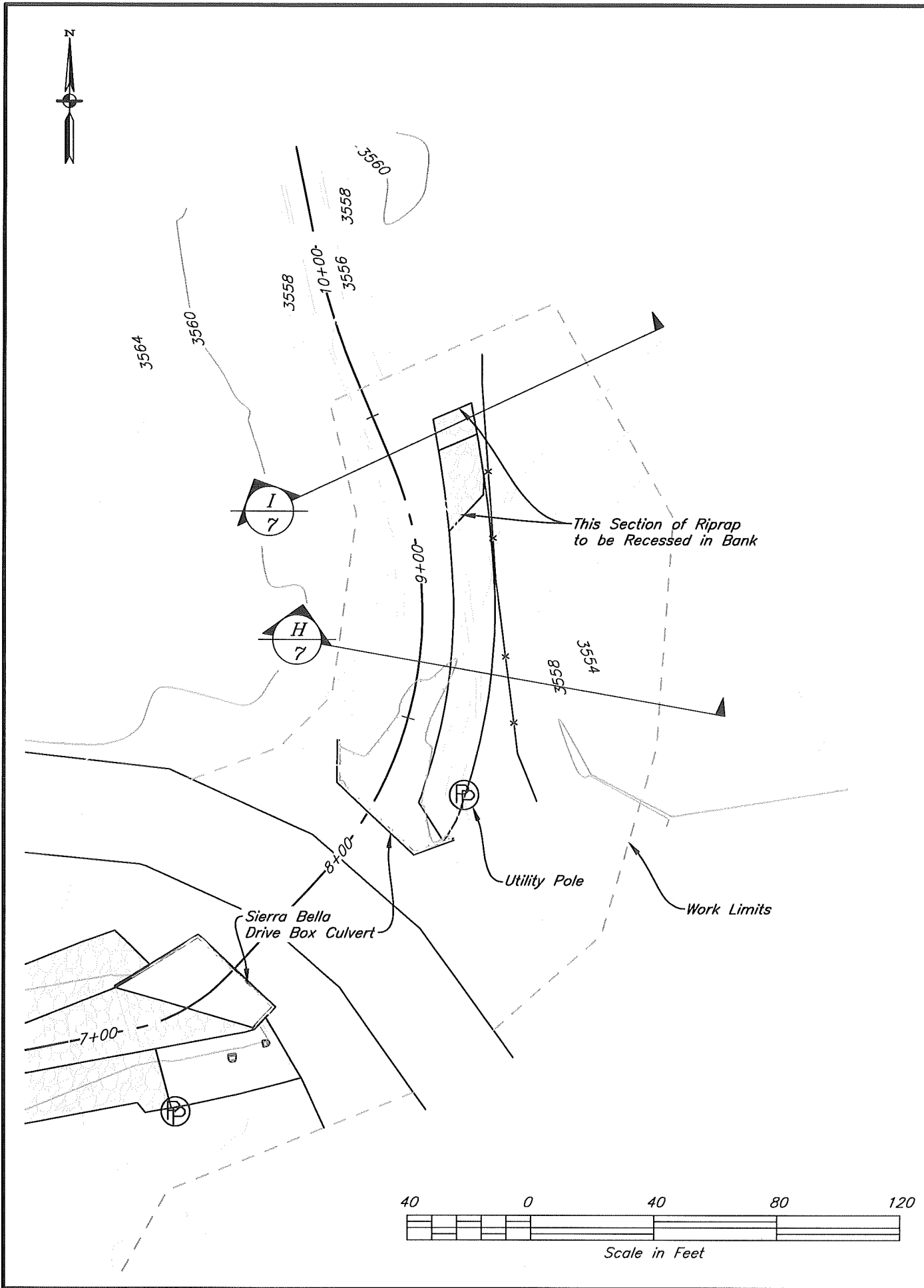


NOTE:
Geotextile: 4' overlap required
19 ft/ft
Riprap: 1.9 yd/ft = 2.5 ton/ft

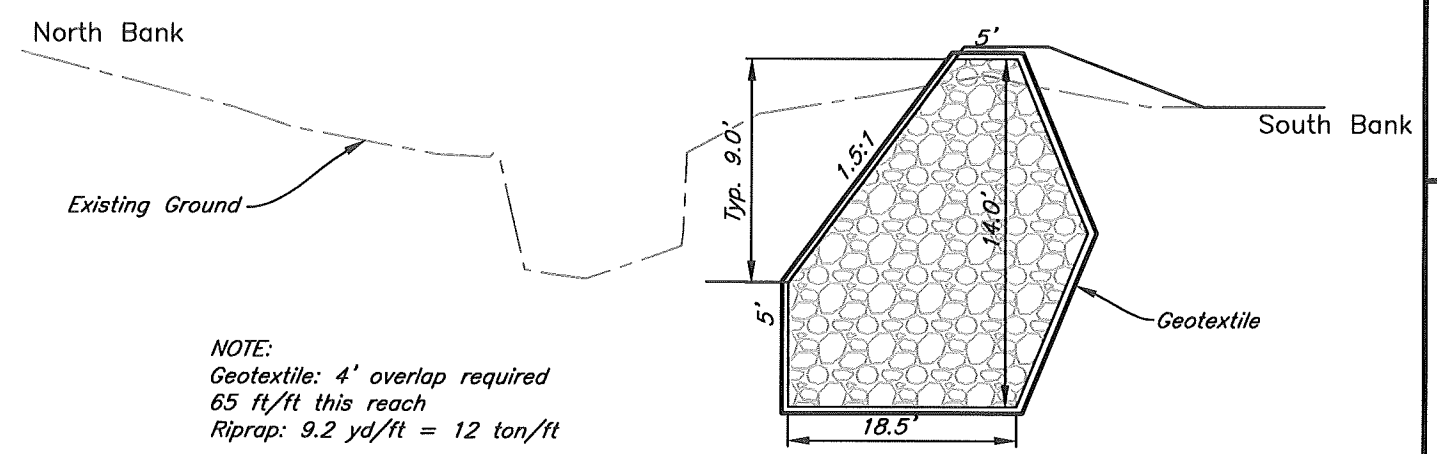
J Grade Stabilization at Sta 2+80
N.T.S.

ANGULAR ROCK - WELL GRADED	
RIPRAP GRADATION	D50=30"
D100	48"
D75	36"
D50	30"
D25	15"
MIN. SIZE	9"

Note: All sections looking upstream



H Typical Section, Sta 8+25 - 9+40
 N.T.S.



I Typical Section, Sta 9+40 - 9+50
 N.T.S.

Note: All sections looking upstream

 Natural Resources Conservation Service United States Department of Agriculture	File Virgin2016EWP_rev15d.doc			
	Project No.			
	11/2016 Sheet 7 of 7			
	Job Class V			
Sierra Bella Park Channel Repair Site Plan US of Culvert Town of Virgin Washington County, Utah				
Date 11/2016	Designed JWM	Drawn JWM	Checked JWM	Approved JWM