

Benchmark Report

Project Name: 2021, Basin 1 North

Project Description: Basin 1 system

Designed by: Aaron Peter

Date: _____

Location: _____

Practice: _____

Checked by: _____

Date: _____

Surveyed by

Date

Checked by

Date

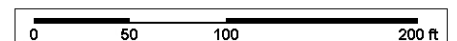
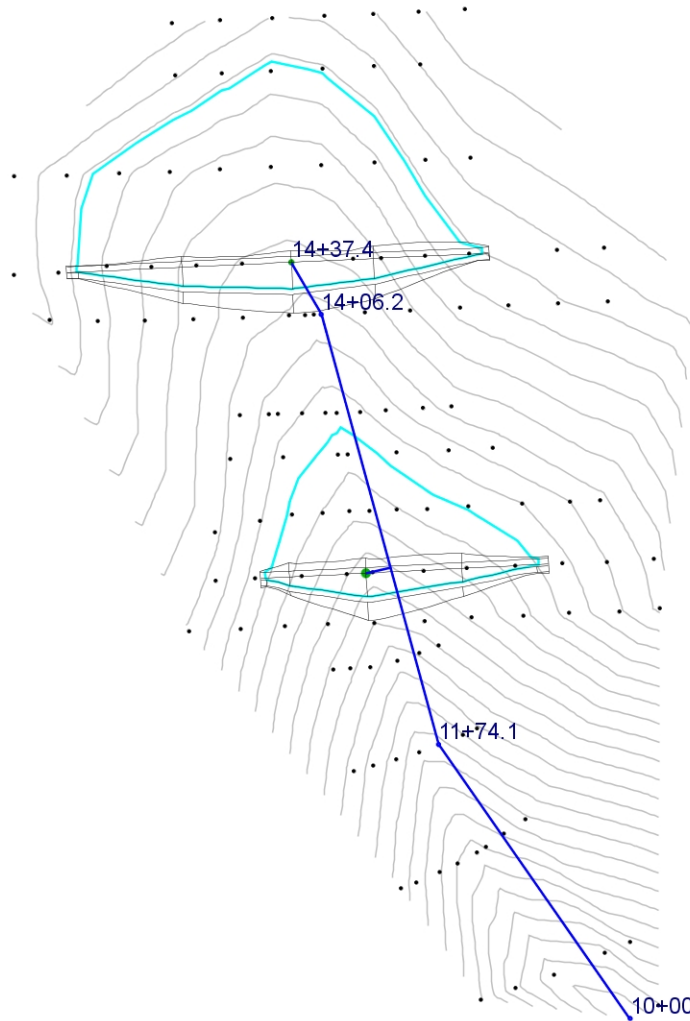
Bench Mark Table	
Bench Mark Description	Elevation
Top 1x2 hub, marked with lath, west of B1a	1277.00

Field Survey Notes									
Desc.	B.S.	H.I.	F.S.	Elev.	Desc.	B.S.	H.I.	F.S.	Elev.

Map Sheets Report



LEGEND	
Baseline	—
CenterLine	—
Points	•
Stations	GRD
Minor Contours	—
Points	•
FloodPlane	—
Structure	—
FloodPlane	—
Structure	—
PipeLine	—



United States
Department of
Agriculture

Natural Resources
Conservation Service

Plan View
2021, Basin 1 North

Designed Aaron Peter
Drawn Aaron Peter
Checked _____
Approved _____
EFT Version 4.0.6.1r1

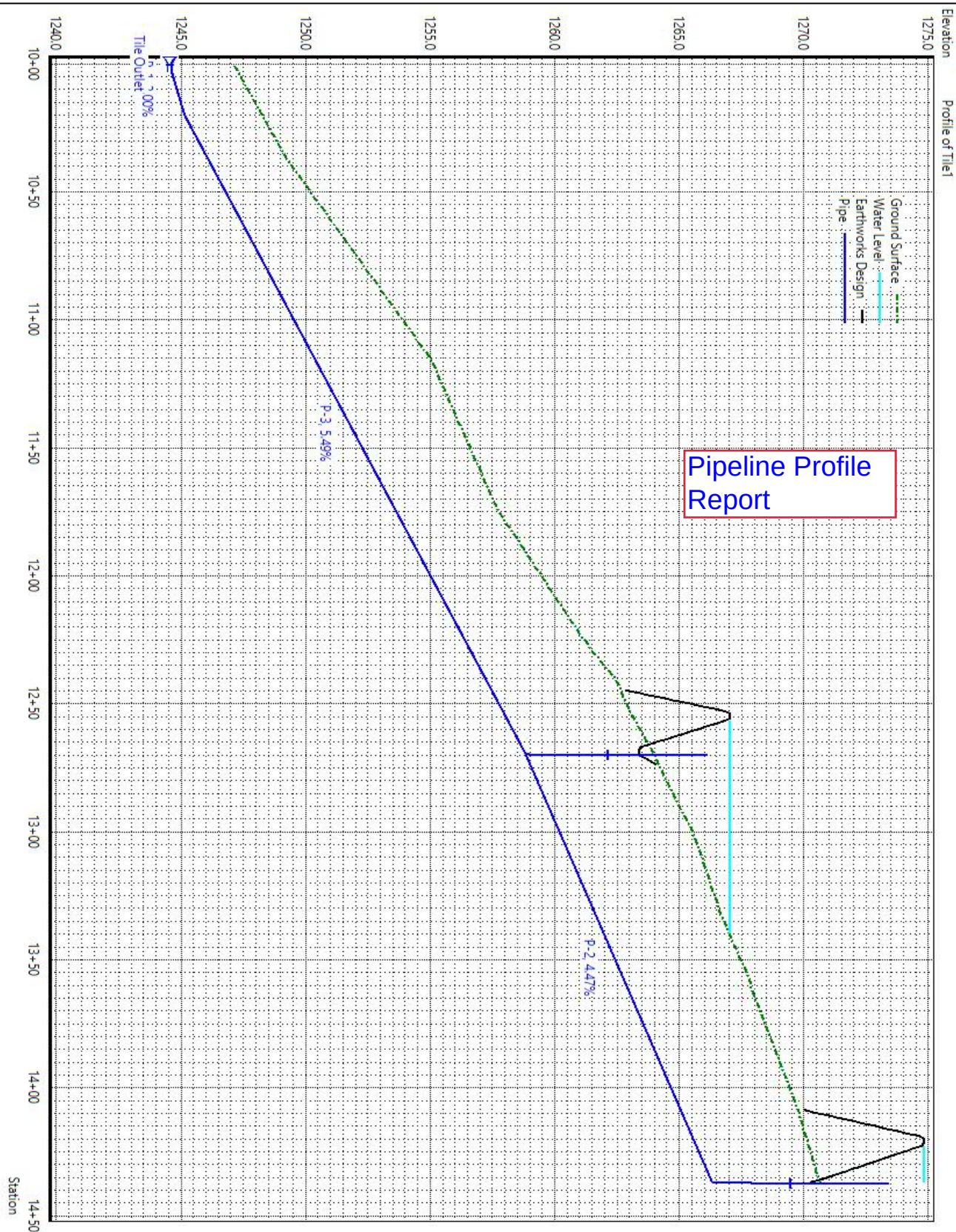
Date

File Name
Basin 1 North.xml

Drawing Name
North Basins

08/24/2021

Sheet ____ of ____



United States
Department of
Agriculture

Natural Resources
Conservation Service

Underground Outlet Profile Report

2021, Basin 1 North

Designed Aaron Peter

Drawn Aaron Peter

Checked _____

Approved _____

EFT Version 4.0.6.1r1

Date

File Name

Basin 1 North.xml

Drawing Name

Pipeline Profile

08/24/2021

Sheet _____ of _____

Underground Outlet Documentation

Project Name: 2021, Basin 1 North

Project Description: Basin 1 system

Designed by: Aaron Peter

Date: _____

Location: _____

Practice: _____

Checked by: _____

Date: _____

Underground Outlet	Tile1
Alignment	Tile B1
Design Status	

Fixtures			
Name	Tile Outlet	Description	Tile Outlet, free outlet, 8" CORRUG_METAL_ANNULAR, w/ animal guard
Name	GB754703930	Description	(grade break)
Name	Intake 1b	Description	Intake 1b, riser inlet, 6.4' x 6" CORRUG_PE_PERF riser (3.2' perforated), CAPPED
Name	Intake 1a	Description	Intake 1a, riser inlet, 6.6' x 6" CORRUG_PE_PERF riser (3.2' perforated), CAPPED

RiserInlet Intake 1b

Water source	Basin1B @ 6+50.0	Orifice elevation (ft)	1262.1
Station	12+69.5	Orifice depth below channel (ft)	0.80
Pipe FL Elevation	1258.80	Design orifice diameter (in)	3.00
Material	CORRUG PE PERF	Offset elbow elevation	1259.00
Manning's N	0.015	Offset diameter (in)	6.0
Diameter (in)	6.0	Offset length (ft)	13.0
Guard type	CAPPED	Offset drop (ft)	0.2
Perforated length	3.2	Inlet is connected to	P-2
Riser perfs per foot	40	Capacity of perforations + top (cfs)	0.56
Riser perf size	1.0	Capacity of orifice (cfs)	0.56
Plugged perforations fraction	0.50	Capacity of offset (cfs)	0.60
Flood elevation	1267.00	Item that controls flow	Perforations + Top
Channel elevation	1262.9	Design flow of riser (cfs)	0.56
Required capacity (cfs)	0.23	Tailwater below perforations	1266.89
Average Flow (cfs)	0.48	Headwater above offset pipe	1259.00
Release Time (hrs)	7.00	UGO-Sizing Flow (cfs)	0.56

RiserInlet Intake 1a

Water source	Basin 1A @ 2+63.0	Orifice elevation (ft)	1269.4
Station	14+37.1	Orifice depth below channel (ft)	0.80
Pipe FL Elevation	1266.30	Design orifice diameter (in)	3.75
Material	CORRUG PE PERF	Offset elbow elevation	no offset
Manning's N	0.015	Offset diameter (in)	no offset
Diameter (in)	6.0	Offset length (ft)	0.0
Guard type	CAPPED	Offset drop (ft)	no offset
Perforated length	3.2	Inlet is connected to	N/A
Riser perfs per foot	40	Capacity of perforations + top (cfs)	0.97
Riser perf size	1.0	Capacity of orifice (cfs)	0.96

Plugged perforations fraction	0.50	Capacity of offset (cfs)	no offset
Flood elevation	1274.80	Item that controls flow	Orifice
Channel elevation	1270.2	Design flow of riser (cfs)	0.96
Required capacity (cfs)	0.82	Tailwater below perforations	1274.47
Average Flow (cfs)	0.82	Headwater above offset pipe	no offset
Release Time (hrs)	15.00	UGO-Sizing Flow (cfs)	0.96

Pipe P-1

Water source	RiserInlet: Intake 1b, Terrace: Basin1B	Diameter (in)	8.0
Start station	10+00	Pipe slope (%)	3.00
Start elevation	1244.50	Flow type	Non-Pressure
End Station	10+20.0	Required capacity (cfs)	1.05
End Elevation	1245.10	Design Capacity (cfs)	1.70
Material	CORRUG PE	Design flow of pipe (cfs)	1.52
Manning's N	0.016	Velocity (fps)	5.51

Pipe P-3

Water source	RiserInlet: Intake 1b, Terrace: Basin1B	Diameter (in)	8.0
Start station	10+20.0	Pipe slope (%)	5.49
Start elevation	1245.10	Flow type	Non-Pressure
End Station	12+69.5	Required capacity (cfs)	1.05
End Elevation	1258.80	Design Capacity (cfs)	2.30
Material	CORRUG PE	Design flow of pipe (cfs)	1.52
Manning's N	0.016	Velocity (fps)	7.04

Pipe P-2

Water source	RiserInlet: Intake 1a, Terrace: Basin 1A	Diameter (in)	6.0
Start station	12+69.5	Pipe slope (%)	4.47
Start elevation	1258.80	Flow type	Non-Pressure
End Station	14+37.1	Required capacity (cfs)	0.82
End Elevation	1266.30	Design Capacity (cfs)	1.03
Material	CORRUG PE	Design flow of pipe (cfs)	0.96
Manning's N	0.015	Velocity (fps)	5.95

Grade Breaks

Name	GB754703930	Station	10+20.0	Elevation	1245.10
-------------	-------------	----------------	---------	------------------	---------

Outlet Tile Outlet

Station	10+00	Length (ft)	10.00
FL Elevation	1244.50	Rim Elevation	N/A
Diameter (in)	8.0	Flow Velocity (ft/sec)	N/A
Material	CORRUG METAL ANNULAR	Drain Pipe	N/A
Guard	Animal Guard	Rock Fill (T)	N/A
Conditions	Free, tailwater 1244.50 ft		

UGO Construction Checkout Sheet

Report Generated
08/24/2021

Project Name: 2021, Basin 1 North

Project Description: Basin 1 system

Designed by: Aaron Peter

Date: _____

Location: _____

Practice: _____

Checked by: _____

Date: _____

Surveyed by

Date

Checked by

Date

I certify the information recorded on this sheet is a true representation of the actual practice installation and the practice as installed does () or does not () meet NRCS plans and specifications.

Certified by

Date

NRCS Rep.

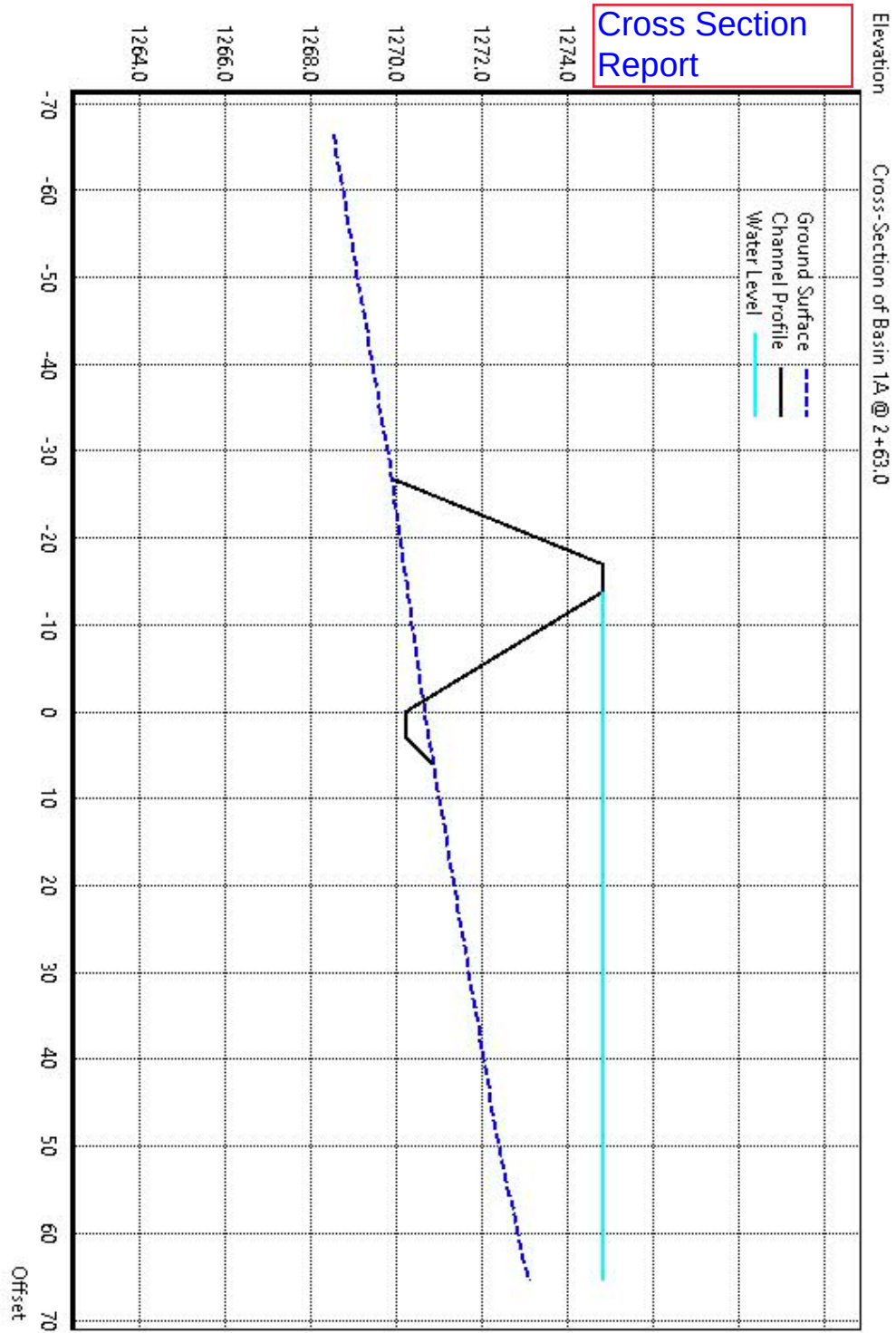
Date

Tile1 Profile							
Station	Fixture ID	Ref. Elev. (ft)	Plan Flowlin Elev. (ft)	Plan Cut (ft)	Plan Pipe Grade (%)	Actual Pipe Grade (%)	
10+00	Outlet Tile Outlet	N/A	1244.5	NaN	BM _____ BS _____		
Pipe	20 ft of 8.0 in diam. CORRUG_PE				3.00		Len. = _____(ft) Dia. = _____(in) Material = _____
10+20.0	GB7547	1248.2	1245.1	3.1	BM _____ BS _____		
Pipe	30 ft of 8.0 in diam. CORRUG_PE				5.49		Len. = _____(ft) Dia. = _____(in) Material = _____
10+50.0	-	1250.2	1246.7	3.4	BM _____ BS _____		
Pipe	50 ft of 8.0 in diam. CORRUG_PE				5.49		Len. = _____(ft) Dia. = _____(in) Material = _____
11+00	-	1253.9	1249.5	4.4	BM _____ BS _____		
Pipe	50 ft of 8.0 in diam. CORRUG_PE				5.49		Len. = _____(ft) Dia. = _____(in) Material = _____
11+50.0	-	1256.6	1252.2	4.3	BM _____ BS _____		

Tile1 Profile							
Station	Fixture ID	Ref. Elev. (ft)	Plan Flowlin Elev. (ft)	Plan Cut (ft)	Plan Pipe Grade (%)	Actual Pipe Grade (%)	
Pipe	50 ft of 8.0 in diam. CORRUG_PE				5.49		Len. = _____(ft) Dia. = _____(in) Material = _____
12+00	-	1259.4	1255.0	4.4	BM _____ BS _____		
Pipe	50 ft of 8.0 in diam. CORRUG_PE				5.49		Len. = _____(ft) Dia. = _____(in) Material = _____
12+50.0	-	1262.8	1257.7	5.1	BM _____ BS _____		
Pipe	19 ft of 8.0 in diam. CORRUG_PE				5.49		Len. = _____(ft) Dia. = _____(in) Material = _____
12+69.5	Inlet Intake 1b	1263.9	1258.8	5.1	BM _____ BS _____		
Pipe	30 ft of 6.0 in diam. CORRUG_PE				4.47		Len. = _____(ft) Dia. = _____(in) Material = _____
13+00	-	1265.5	1260.2	5.3	BM _____ BS _____		
Pipe	50 ft of 6.0 in diam. CORRUG_PE				4.47		Len. = _____(ft) Dia. = _____(in) Material = _____
13+50.0	-	1267.4	1262.4	5.0	BM _____ BS _____		
Pipe	50 ft of 6.0 in diam. CORRUG_PE				4.47		Len. = _____(ft) Dia. = _____(in) Material = _____
14+00	-	1269.4	1264.6	4.8	BM _____ BS _____		
Pipe	37 ft of 6.0 in diam. CORRUG_PE				4.47		Len. = _____(ft) Dia. = _____(in) Material = _____
14+37.1	Inlet Intake 1a	1270.6	1266.3	4.3	BM _____ BS _____		
Pipe					N/A		Len. = _____(ft) Dia. = _____(in) Material = _____

Tile1 Inlet(s)												
Inlet ID	Channel Bottom Elev.	Channel Cut	Inlet Diam. (in)	Perf Size (in)	Holes / Foot	Perf. Length (ft)	Guard	Orifice Elev.	Orifice Diam. (in)	Base / Elbow Elev.	Offset Pipe Diam. (in)	Offset Pipe Length (ft)
Intake 1b	1262.90	1.0	6.00	1.00	40	3.20	CAPPEI	1262.10	3.00	1259.00	6.00	13.00
As-Built												
Intake 1a	1270.20	0.4	6.00	1.00	40	3.20	CAPPEI	1269.40	3.75	1266.30	-	-
As-Built												

Tile1 Outlet								
Outlet ID	Outlet Type	Outlet Diam. (in)	Length or Height (ft)	Holes / Foot	Perf Size (in)	Guard	Outlet Elev.	Material
Tile Outlet	Standard	8.00	10.0	-	-	YES	1244.50	CORRUG_METAL_ANNULAR
As-Built								



United States
Department of
Agriculture

Natural Resources
Conservation Service

Terrace Cross Section Report
2021, Basin 1 North

Designed Aaron Peter
Drawn Aaron Peter
Checked _____
Approved _____
EFT Version 4.0.6.1r1

Date

File Name
Basin 1 North.xml

Drawing Name
Basin 1A

08/24/2021

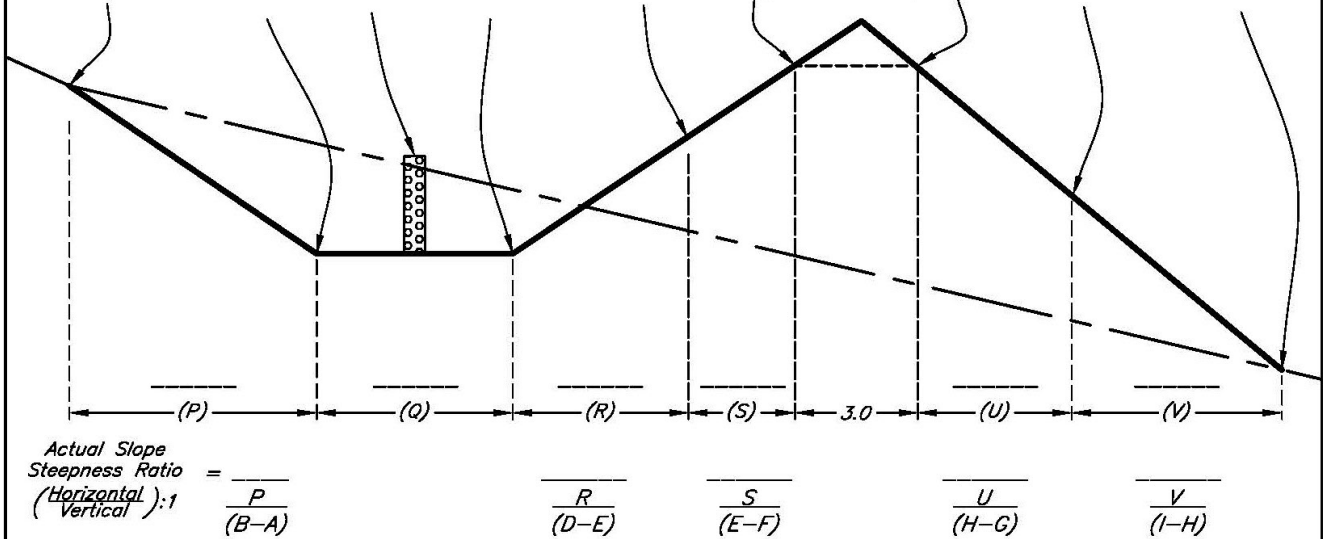
Sheet _____ of _____

Terrace Cross Section Checkout Sheet

Landowner/Project: _____ Survey By: _____ Date: _____

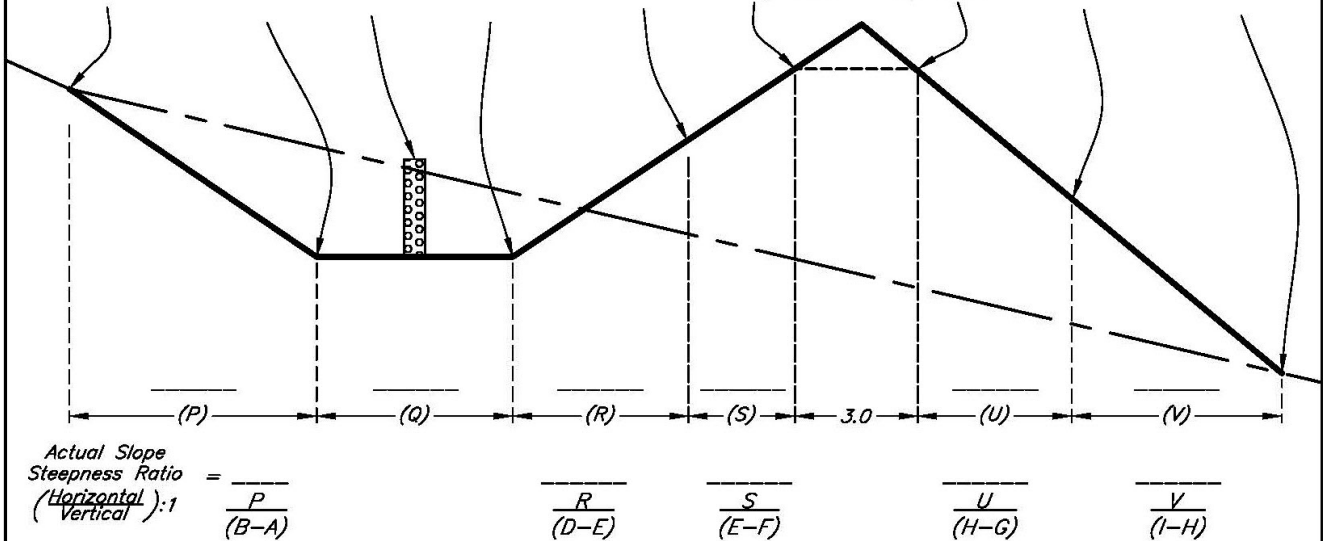
Terrace: _____ Intake #/Station: _____ BM ID: _____ BM Elev. _____ Shot on BM: _____ H.I. _____

(A) _____ (B) _____ (C) _____ (D) _____ (E) _____ (F) _____ (G) _____ (H) _____ (I) _____
 Cut Slope Daylight Upstream Channel Edge Top of Intake Front Slope Toe Mid Front Slope Front Slope shoulder @ Top Width Back Slope shoulder @ Top Width Mid Back Slope Back Slope Toe



Terrace: _____ Intake #/Station: _____ BM ID: _____ BM Elev. _____ Shot on BM: _____ H.I. _____

(A) _____ (B) _____ (C) _____ (D) _____ (E) _____ (F) _____ (G) _____ (H) _____ (I) _____
 Cut Slope Daylight Upstream Channel Edge Top of Intake Front Slope Toe Mid Front Slope Front Slope shoulder @ Top Width Back Slope shoulder @ Top Width Mid Back Slope Back Slope Toe



Terrace Construction Checkout Sheet

Report Generated
08/24/2021

Project Name: 2021, Basin 1 North

Project Description: Basin 1 system

Designed by: Aaron Peter

Date: _____

Location: _____

Practice: _____

Checked by: _____ **Date:** _____

Surveyed by _____

Date _____

Checked by _____

Date _____

I certify the information recorded on this sheet is a true representation of the actual practice installation and the practice as installed does () or does not () meet NRCS plans and specifications.

Certified by _____

Date _____

NRCS Rep. _____

Date _____

Benchmark Desc: Top 1x2 hub, marked with lath, west of B1a

BS _____

HI _____

FS _____

BM Elev: 1277.00

BS _____

HI _____

FS _____

Elev: _____

Strip. Vol. (cy): 0.0

Total Fill (cy): 249.0

Total Cut (cy): 13.5

Total Length 220.0
(ft):

Strip. Depth 0.0
(in):

Flagline Loc: UPSTREAM_TOE

Design Water 1274.8
Elev:

BM - Des. 2.2
Water:

Basin 1A Profile								
Station	Ref. Elevation (ft)	Channel Elevation (ft)	Channel C/F	Ridge Elev. (ft)	Ridge C/F	Front Slope Width (ft)	Bottom Width (ft)	Drain/ Block Info
1+60.0	1275.0	1275.0	0.0C	1275.1	0.1F	0.3	3.0	
2+00	1273.2	1272.6	0.6C	1274.8	1.6F	6.7	3.0	
2+20.0	1271.8	1271.4	0.5C	1274.8	3.0F	10.3	3.0	
2+50.0	1270.9	1270.6	0.3C	1274.8	3.9F	12.7	3.0	
2+63.0	1270.6	1270.2	0.4C	1274.8	4.2F	13.8	3.0	Intake 1a 14+37.1
3+00	1271.2	1271.0	0.2C	1274.8	3.6F	11.3	3.0	
3+20.0	1271.9	1271.5	0.4C	1274.8	2.9F	9.9	3.0	
3+50.0	1273.4	1273.3	0.1C	1274.8	1.4F	4.5	3.0	
3+80.0	1275.1	1275.1	0.0C	1275.2	0.1F	0.3	3.0	

Note: Ridge and Channel Cut/Fill values are relative to ground elevation at reference line.

Terrace Design Documentation

Project Name: 2021, Basin 1 North

Location: _____

Project Description: Basin 1 system

Practice: _____

Designed by: Aaron Peter Date: _____

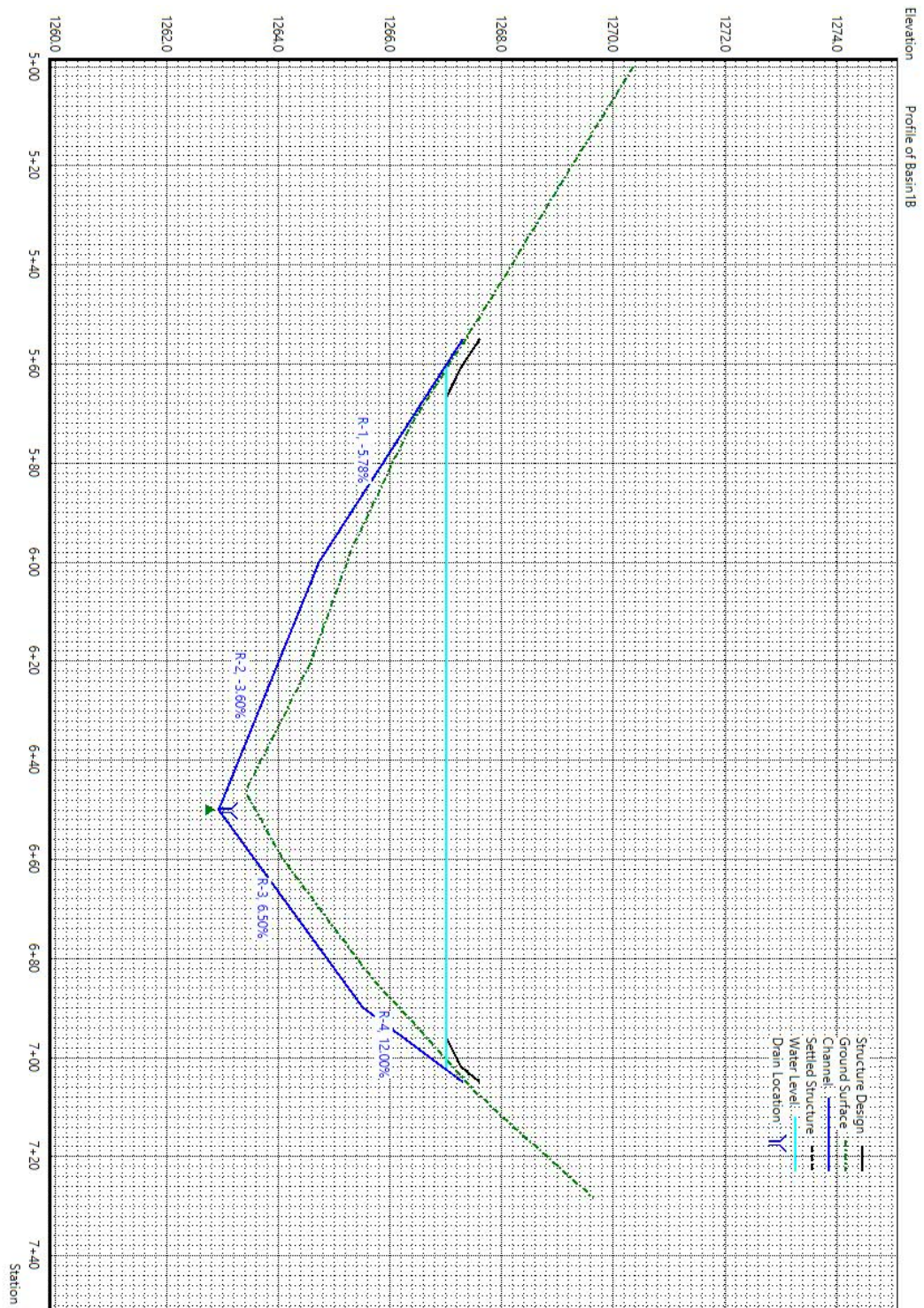
Checked by: _____ Date: _____

Terrace Name	Basin 1A
Terrace Type	WASCOB
Design Status	Reach R-1 (1+60.0 - 2+20.0) is not stable. Velocity 4.01 ft/s exceeds limit 2.0 ft/s Reach R-2 (2+20.0 - 2+63.0) is not stable. Velocity 3.51 ft/s exceeds limit 2.0 ft/s Reach R-4 (3+20.0 - 3+80.0) is not stable. Velocity 3.99 ft/s exceeds limit 2.0 ft/s R
Underground Outlets	Tile1 @ 2+63.0, Drain fraction: 100%
Storage Blocks	

Alignment	Basin1a CH	Align at	UPSTREAM_TOE
Drained Area (ac)	6.20	Uphill is to	RIGHT
Flooded Area (ac)	0.37	Default Cut Slope	5.0 : 1
Terrace Area (ac)	0.11	Default Front Slope	3.0 : 1
Runoff Model	EFH2 Hydrology	Default Back Slope	2.0 : 1
Precipitation (in)	4.50	Default Top Width (ft)	3.0
Storm Type	MSE3	Default Bottom Width (ft)	3.0
Curve Number	74	Min. Height (ft)	0.1
Watershed Length (ft)	400.0	Overfill for Settling	0.0%
Watershed Slope (%)	3.50	Max Fill Height (ft)	4.8
Total Runoff (ac-in)	12.24	Storage Freeboard (ft)	0.0
Runoff Q (in)	1.97	Back Cut Min Slope W	5.00
Qu (cfs/ac-in)	1.57	Back Cut Slope (%)	1.00
Design Life (yr)	10	Bank Start Slope	2.0 : 1
Erosion Model	Simple Erosion	Bank End Slope	2.0 : 1
Erosion Rate (T/ac-yr)	2.00	Soil Allowed Stress (lb/sq ft)	0.030
Trap Efficiency	0.90	Vegetal Cover Factor	0.00
Sediment Density(T/cy)	1.00	Stability Retardance	0.035
Sediment Store (ac-in)	3013.20	Capacity Retardance	0.035
Flood Routing Model	Caldwell Method	Runoff Storage (ac-in)	24556.96
Flood Duration (hr)	15.0	Required Discharge (cfs)	0.822
Reqd Storage (ac-in)	7.595	Design Storage (ac-in)	7.640
Dsgn Water Elev (ft)	1274.8		

Station	Channel Elevation	Ridge Elevation	Height (ft)	Flow Q (cfs)	Bed Slope (%)	Stability Velocity (fps)	Capacity Flow Depth (ft)	Ridge Footprint (ft)	Storage Effective Depth
1+60.0	1275.0	1275.1	0.1	0.00	-6.12%	0.00	0.00	3.8	0.0
2+20.0	1271.4	1274.8	3.4	5.24	-2.70%	4.01	0.31	20.9	3.4
2+63.0	1270.2	1274.8	4.6	10.21	2.28%	3.42	0.57	26.7	4.6
3+20.0	1271.5	1274.8	3.3	5.24	6.00%	3.99	0.31	18.8	3.3
3+80.0	1275.1	1275.2	0.1	0.00	0	0.00	0.00	3.4	0.0

Station	Template Name	Cut Slope	Front Slope	Back Slope	Bottom Width (ft)	Front Height (ft)	Top Width (ft)
1+60.0	*NarrowBase	5.0 : 1	3.0 : 1	2.0 : 1	3.0	0.1	3.0
2+20.0	*NarrowBase	5.0 : 1	3.0 : 1	2.0 : 1	3.0	0.3	3.0
2+63.0	*NarrowBase	5.0 : 1	3.0 : 1	2.0 : 1	3.0	0.6	3.0
3+20.0	*NarrowBase	5.0 : 1	3.0 : 1	2.0 : 1	3.0	0.3	3.0
3+80.0	*NarrowBase	5.0 : 1	3.0 : 1	2.0 : 1	3.0	0.1	3.0



United States
Department of
Agriculture

Natural Resources
Conservation Service

Terrace Profile Report
2021, Basin 1 North

Designed Aaron Peter
 Drawn Aaron Peter
 Checked _____
 Approved _____
 EFT Version 4.0.6.1r1

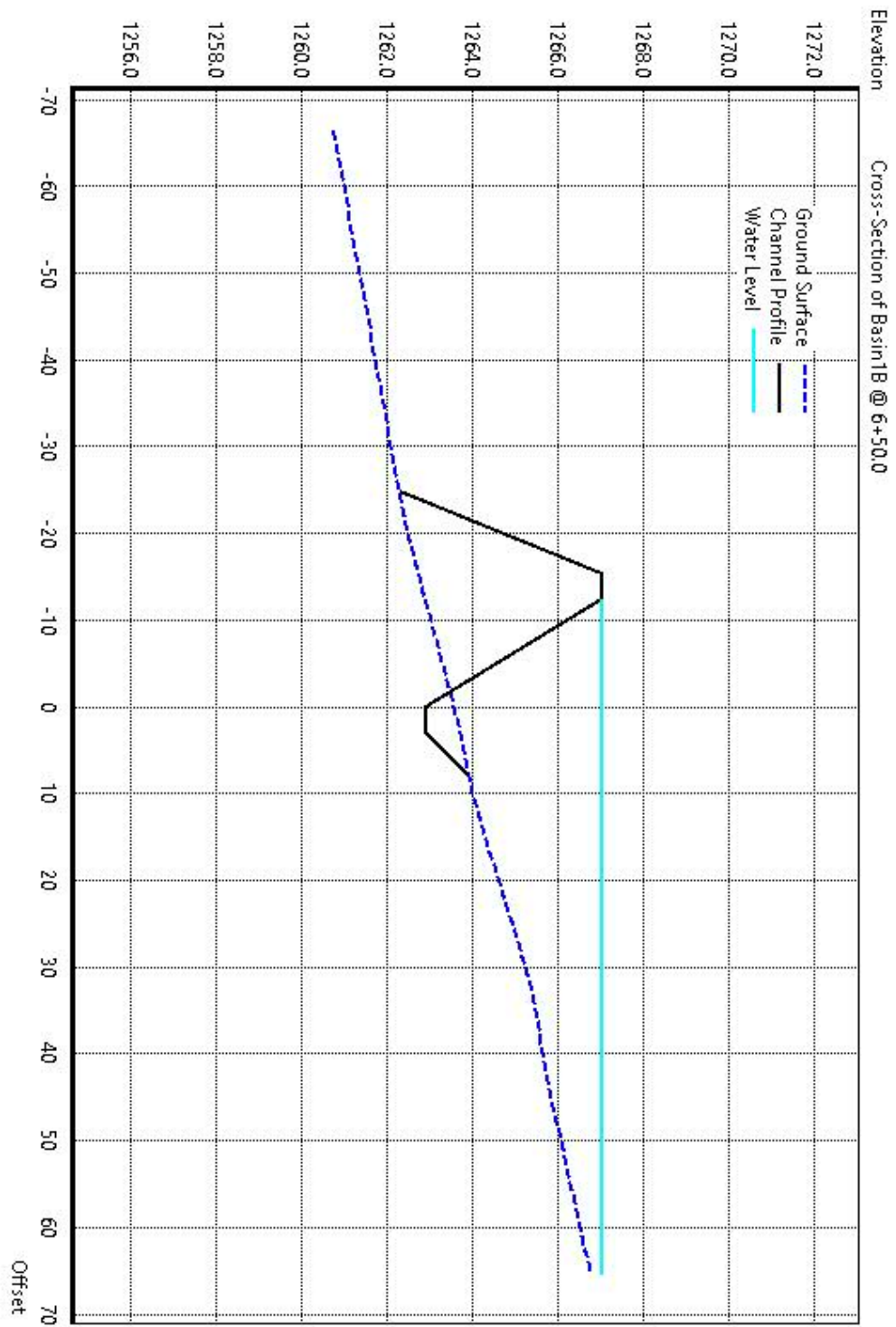
Date

File Name
Basin 1 North.xml

Drawing Name
Basin1B

08/24/2021

Sheet ____ of ____



United States
Department of
Agriculture

Natural Resources
Conservation Service

Terrace Cross Section Report
2021, Basin 1 North

Designed Aaron Peter
Drawn Aaron Peter
Checked _____
Approved _____
EFT Version 4.0.6.1r1

Date

File Name
Basin 1 North.xml

Drawing Name
Basin1B

08/24/2021

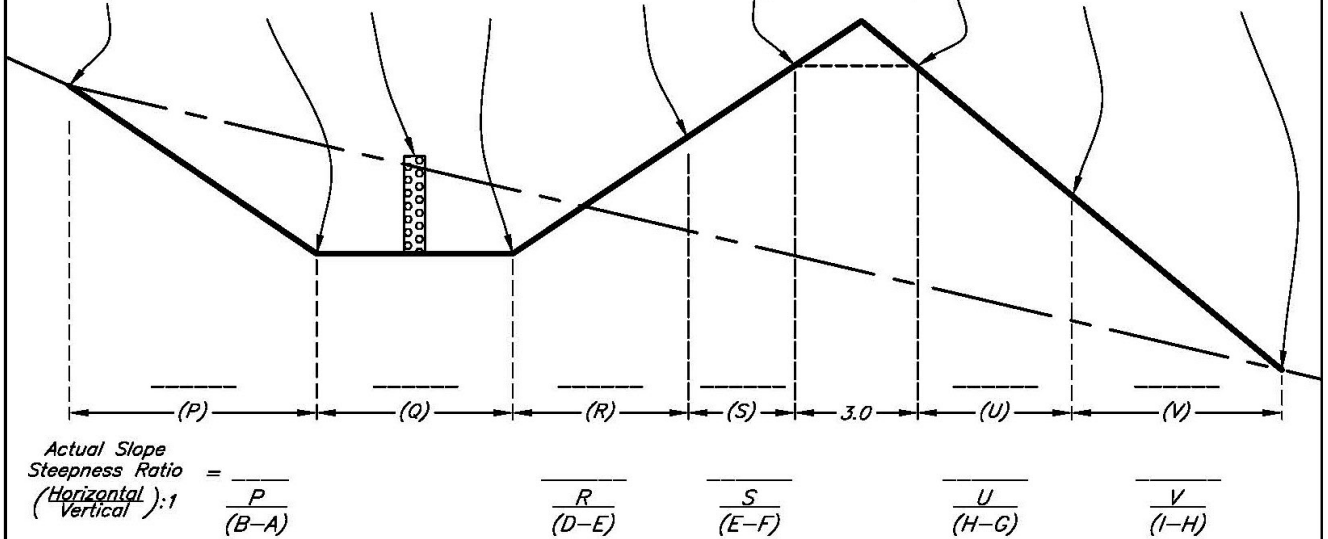
Sheet _____ of _____

Terrace Cross Section Checkout Sheet

Landowner/Project: _____ Survey By: _____ Date: _____

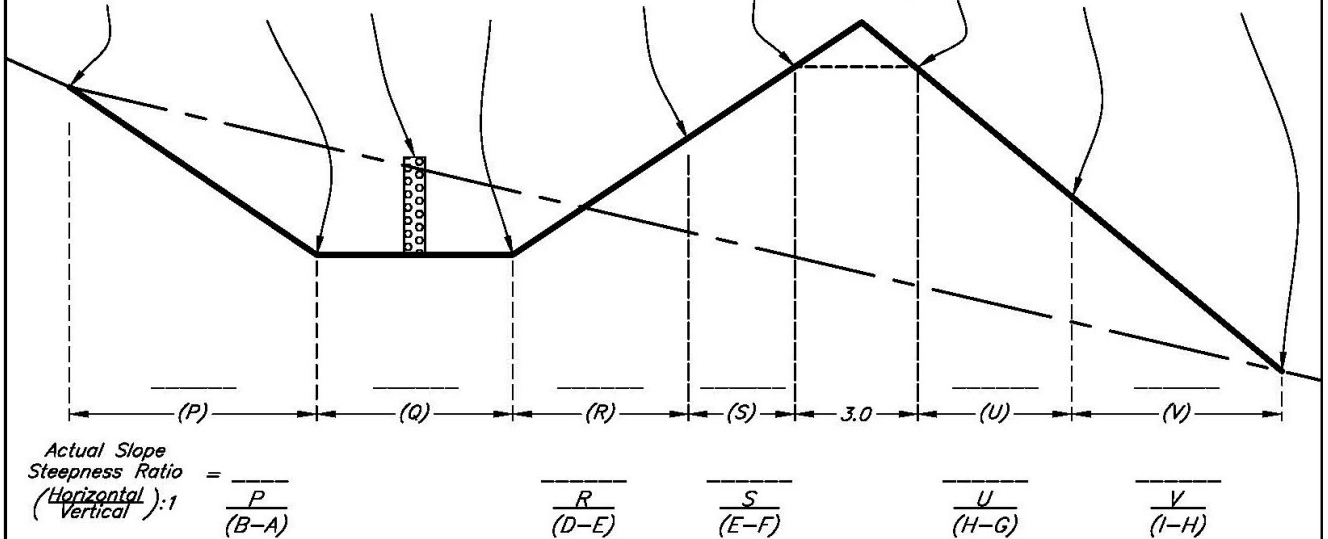
Terrace: _____ Intake #/Station: _____ BM ID: _____ BM Elev. _____ Shot on BM: _____ H.I. _____

(A) _____ (B) _____ (C) _____ (D) _____ (E) _____ (F) _____ (G) _____ (H) _____ (I) _____
 Cut Slope Daylight Upstream Channel Edge Top of Intake Front Slope Toe Mid Front Slope Front Slope shoulder @ Top Width Back Slope shoulder @ Top Width Mid Back Slope Back Slope Toe



Terrace: _____ Intake #/Station: _____ BM ID: _____ BM Elev. _____ Shot on BM: _____ H.I. _____

(A) _____ (B) _____ (C) _____ (D) _____ (E) _____ (F) _____ (G) _____ (H) _____ (I) _____
 Cut Slope Daylight Upstream Channel Edge Top of Intake Front Slope Toe Mid Front Slope Front Slope shoulder @ Top Width Back Slope shoulder @ Top Width Mid Back Slope Back Slope Toe



United States
Department of
Agriculture

Natural Resources
Conservation Service

Terrace Cross-Section Checkout Sheet

2021, Basin 1 North

EFT Version 4.0.6.1r1

File Name

Basin 1 North.xml

Drawing Name

Cross-Section Checkout

08/24/2021

Sheet _____ of _____

Terrace Construction Checkout Sheet

Report Generated
08/24/2021

Project Name: 2021, Basin 1 North

Location: _____

Project Description: Basin 1 system

Practice: _____

Designed by: Aaron Peter

Date: _____

Checked by: _____ **Date:** _____

Surveyed by

Date

Checked by

Date

I certify the information recorded on this sheet is a true representation of the actual practice installation and the practice as installed does () or does not () meet NRCS plans and specifications.

Certified by

Date

NRCS Rep.

Date

Benchmark Desc: Top 1x2 hub, marked with lath, west of B1a

BS _____

HI _____

FS _____

BM Elev: 1277.00

BS _____

HI _____

FS _____

Elev: _____

Strip. Vol. (cy): 0.0

Total Fill (cy): 123.5

Total Cut (cy): 15.6

Total Length 150.0
(ft):

Strip. Depth 0.0
(in):

Flagline Loc: UPSTREAM_TOE

Design Water 1267.0
Elev:

BM - Des. 10.0
Water:

Basin1B Profile								
Station	Ref. Elevation (ft)	Channel Elevation (ft)	Channel C/F	Ridge Elev. (ft)	Ridge C/F	Front Slope Width (ft)	Bottom Width (ft)	Drain/ Block Info
5+55.0	1267.3	1267.3	0.0C	1267.6	0.3F	0.9	3.0	
6+00	1265.2	1264.7	0.5C	1267.0	1.8F	6.9	3.0	
6+50.0	1263.6	1262.9	0.7C	1267.0	3.4F	12.3	3.0	Intake 1b 12+69.5
6+90.0	1266.1	1265.5	0.6C	1267.0	0.9F	4.5	3.0	
7+05.0	1267.4	1267.3	0.1C	1267.6	0.2F	0.9	3.0	

Note: Ridge and Channel Cut/Fill values are relative to ground elevation at reference line.

Terrace Design Documentation

Project Name: 2021, Basin 1 North

Location: _____

Project Description: Basin 1 system

Practice: _____

Designed by: Aaron Peter **Date:** _____

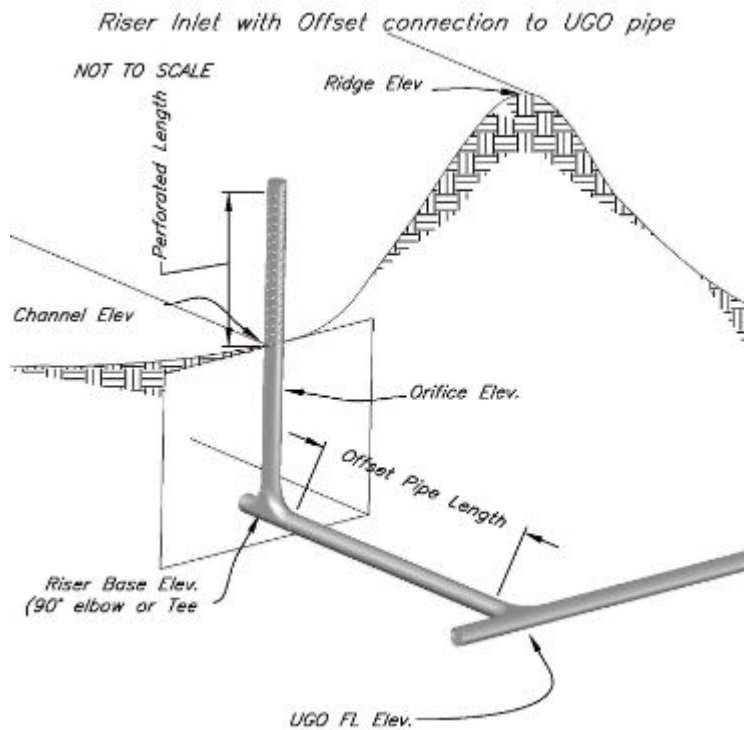
Checked by: _____ **Date:** _____

Terrace Name	Basin1B
Terrace Type	WASCOB
Design Status	Reach R-1 (5+55.0 - 6+00) is not stable. Velocity 2.88 ft/s exceeds limit 2.0 ft/s Reach R-2 (6+00 - 6+50.0) is not stable. Velocity 3.09 ft/s exceeds limit 2.0 ft/s Reach R-4 (6+90.0 - 7+05.0) is not stable. Velocity 2.51 ft/s exceeds limit 2.0 ft/s Reach
Underground Outlets	Tile1 @ 6+50.0, Drain fraction: 100%
Storage Blocks	

Alignment Basin1b CH Drained Area (ac) 1.70 Flooded Area (ac) 0.16 Terrace Area (ac) 0.07 Runoff Model EFH2 Hydrology Precipitation (in) 4.50 Storm Type MSE3 Curve Number 74 Watershed Length (ft) 200.0 Watershed Slope (%) 3.00 Total Runoff (ac-in) 3.36 Runoff Q (in) 1.97 Qu (cfs/ac-in) 1.92 Design Life (yr) 10 Erosion Model Simple Erosion Erosion Rate (T/ac-yr) 3.00 Trap Efficiency 0.90 Sediment Density(T/cy) 1.00 Sediment Store (ac-in) 1239.30 Flood Routing Model Caldwell Method Flood Duration (hr) 15.0 Reqd Storage (ac-in) 2.196 Dsgn Water Elev (ft) 1267.0	Align at UPSTREAM_TOE Uphill is to RIGHT Default Cut Slope 5.0 : 1 Default Front Slope 3.0 : 1 Default Back Slope 2.0 : 1 Default Top Width (ft) 3.0 Default Bottom Width (ft) 3.0 Min. Height (ft) 0.3 Overfill for Settling 0.0% Max Fill Height (ft) 4.4 Storage Freeboard (ft) 0.0 Back Cut Min Slope W 5.00 Back Cut Slope (%) 1.00 Bank Start Slope 2.0 : 1 Bank End Slope 2.0 : 1 Soil Allowed Stress (lb/sq ft) 0.030 Vegetal Cover Factor 0.00 Stability Retardance 0.035 Capacity Retardance 0.035 Runoff Storage (ac-in) 6733.36 Required Discharge (cfs) 0.226 Design Storage (ac-in) 2.334
---	--

Station	Channel Elevation	Ridge Elevation	Height (ft)	Flow Q (cfs)	Bed Slope (%)	Stability Velocity (fps)	Capacity Flow Depth (ft)	Ridge Footprint (ft)	Storage Effective Depth
5+55.0	1267.3	1267.6	0.3	0.00	-5.78%	0.00	0.00	4.7	0.0
6+00	1264.7	1267.0	2.3	1.93	-3.60%	2.88	0.18	14.8	2.3
6+50.0	1262.9	1267.0	4.1	4.07	6.50%	3.80	0.26	24.7	4.1
6+90.0	1265.5	1267.0	1.5	0.64	12.00%	2.51	0.08	9.9	1.5
7+05.0	1267.3	1267.6	0.3	0.00	0	0.00	0.00	4.7	0.0

Station	Template Name	Cut Slope	Front Slope	Back Slope	Bottom Width (ft)	Front Height (ft)	Top Width (ft)
5+55.0	*NarrowBase	5.0 : 1	3.0 : 1	2.0 : 1	3.0	0.3	3.0
6+00	*NarrowBase	5.0 : 1	3.0 : 1	2.0 : 1	3.0	0.3	3.0
6+50.0	*NarrowBase	5.0 : 1	3.0 : 1	2.0 : 1	3.0	0.3	3.0
6+90.0	*NarrowBase	5.0 : 1	3.0 : 1	2.0 : 1	3.0	0.3	3.0
7+05.0	*NarrowBase	5.0 : 1	3.0 : 1	2.0 : 1	3.0	0.3	3.0



Inlet Details

Inlet ID	Inlet Diam (in)	Total Length (ft)	UGO FL Elev.	Feet from Flagline	Orifice Elev.	Orifice Diam. (in)	Ridge Elev.	Channel Elev.	Offset Pipe Diam (in)	Offset Pipe Length	Elbow Elev.	Perf Length (ft)	Perf Size (in)	Holes per Foot	Guard
Intake 1b	6.0	6.4	1258.8	0.0	1262.1	3.00	1267.0	1262.9	6.00	13.00	1259.0	3.2	1.00	40	CAPPED

United States
Department of
Agriculture

Natural Resources
Conservation Service

Riser Inlet (Using Offset Pipe) Report

2021, Basin 1 North

Date _____

Designed Aaron Peter _____

Drawn Aaron Peter _____

Checked _____

Approved _____

EFT Version 4.0.6.1r1

File Name
Basin 1 North.xml

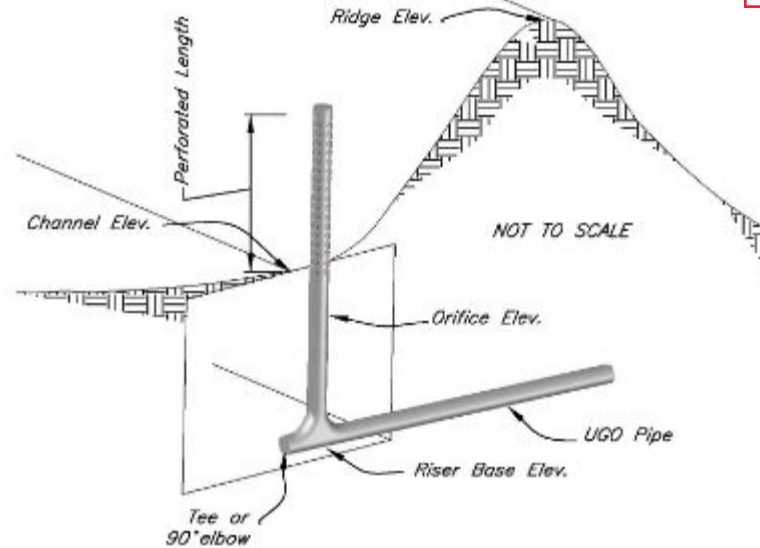
Drawing Name
Riser Inlet

08/24/2021

Sheet ____ of ____

Riser Inlet with Direct Connection to UGO Pipe

Inlet Details



Inlet ID	Inlet Diam (in)	Total Length (ft)	Feet from Flagline	UGO FL Elev.	Orifice Elev.	Orifice Diam (in)	Ridge Elev.	Channel Elev.	Perf Length (ft)	Perf Size (in)	Holes per foot	Guard
Intake 1a	6.0	6.6	0.0	1266.3	1269.4	3.75	1274.8	1270.2	3.2	1.00	40	CAPPED



United States
Department of
Agriculture

Natural Resources
Conservation Service

Riser Inlet (No Offset Pipe)
Report

2021, Basin 1 North

Date

Designed Aaron Peter _____

Drawn Aaron Peter _____

Checked _____

Approved _____

EFT Version 4.0.6.1r1

File Name
Basin 1 North.xml

Drawing Name
Riser Inlet

08/24/2021

Sheet ____ of ____