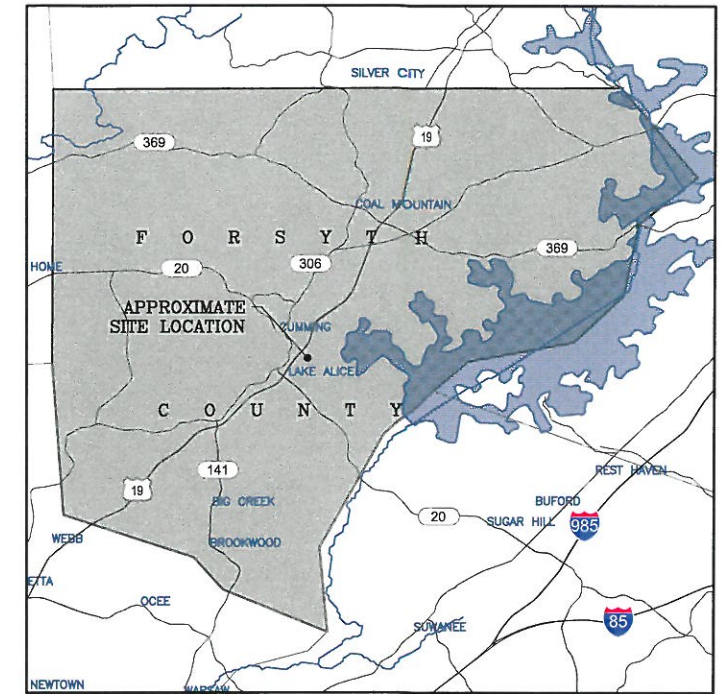


LOCATION MAP

# LAKE ALICE REMEDIATION PHASE I - WEIR INSTALLATION



VICINITY MAP

DRAWING LIST		
REV	TITLE	DRAWING NO.
A	COVER SHEET	A000
A	GENERAL ARRANGEMENT AND GEOTECHNICAL BOREHOLES	A100
A	WEIR LAYOUT	A150
A	STREAM DIVERSION STRUCTURE	A200
A	STREAM DIVERSION STRUCTURE SECTION AND DETAILS	A300
A	WATERSHED MAP	A400
A	WEIR GRADING PLAN	A500
A	EXCAVATION SECTIONS	A600
A	EROSION CONTROL PLAN	A700
A	EROSION CONTROL SECTIONS AND DETAILS	A800
A	CONCRETE REINFORCEMENT PLAN	A900

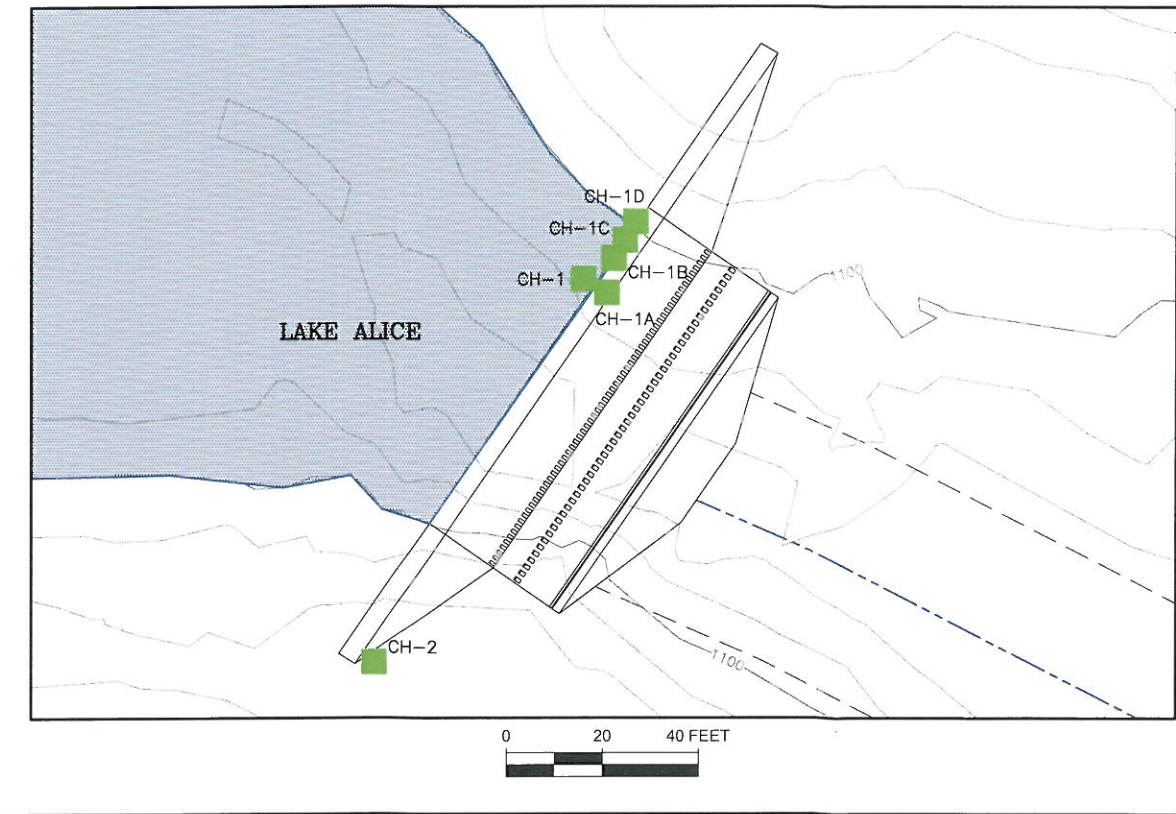
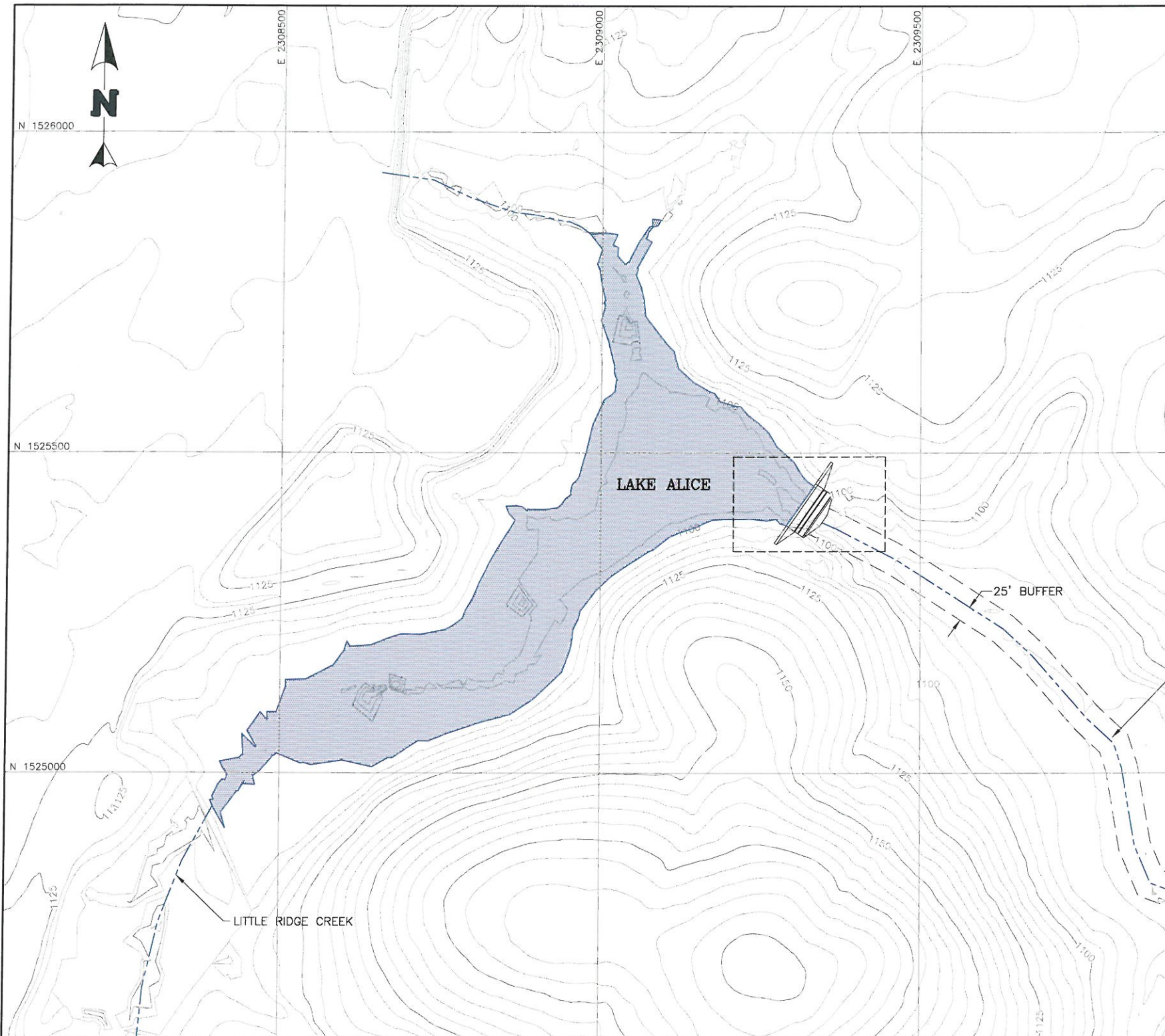


**OWNER:**

MASHBURN FAMILY TRUST  
CITY OF CUMMING, GA



Two Midtown Plaza 1349 West Peachtree Street  
Suite 2000 Atlanta, GA 30309  
Phone: (404) 347-9050 www.newfields.com



- LEGEND:**
- EXISTING GROUND CONTOURS
  - PROPOSED GROUND CONTOURS
  - EXISTING ROADS/TRAILS
  - EXISTING DRAINAGES
  - 50 FOOT STREAM BUFFER
  - CH-2 BOREHOLE, NEWFIELDS 2014

WEIR EXCAVATION CONTROL POINTS			
POINT	NORTHING	EASTING	ELEVATION
CH-1	1,525,437.38	2,309,322.33	1,095.32
CH-1A	1,525,434.49	2,309,327.17	1,095.36
CH-1B	1,525,441.60	2,309,328.68	1,096.72
CH-1C	1,525,445.40	2,309,330.97	1,098.32
CH-1D	1,525,449.24	2,309,333.17	1,100.49
CH-2	1,525,357.67	2,309,278.73	1,111.55



REV	DATE	DESCRIPTION	TECH	ENG
A	08/28/14	ISSUED FOR CLIENT REVIEW	DS	BW

**APPROVED BY:** BW  
**CHECKED BY:** NR  
**DESIGNED BY:** BW  
**DRAWN BY:** DS

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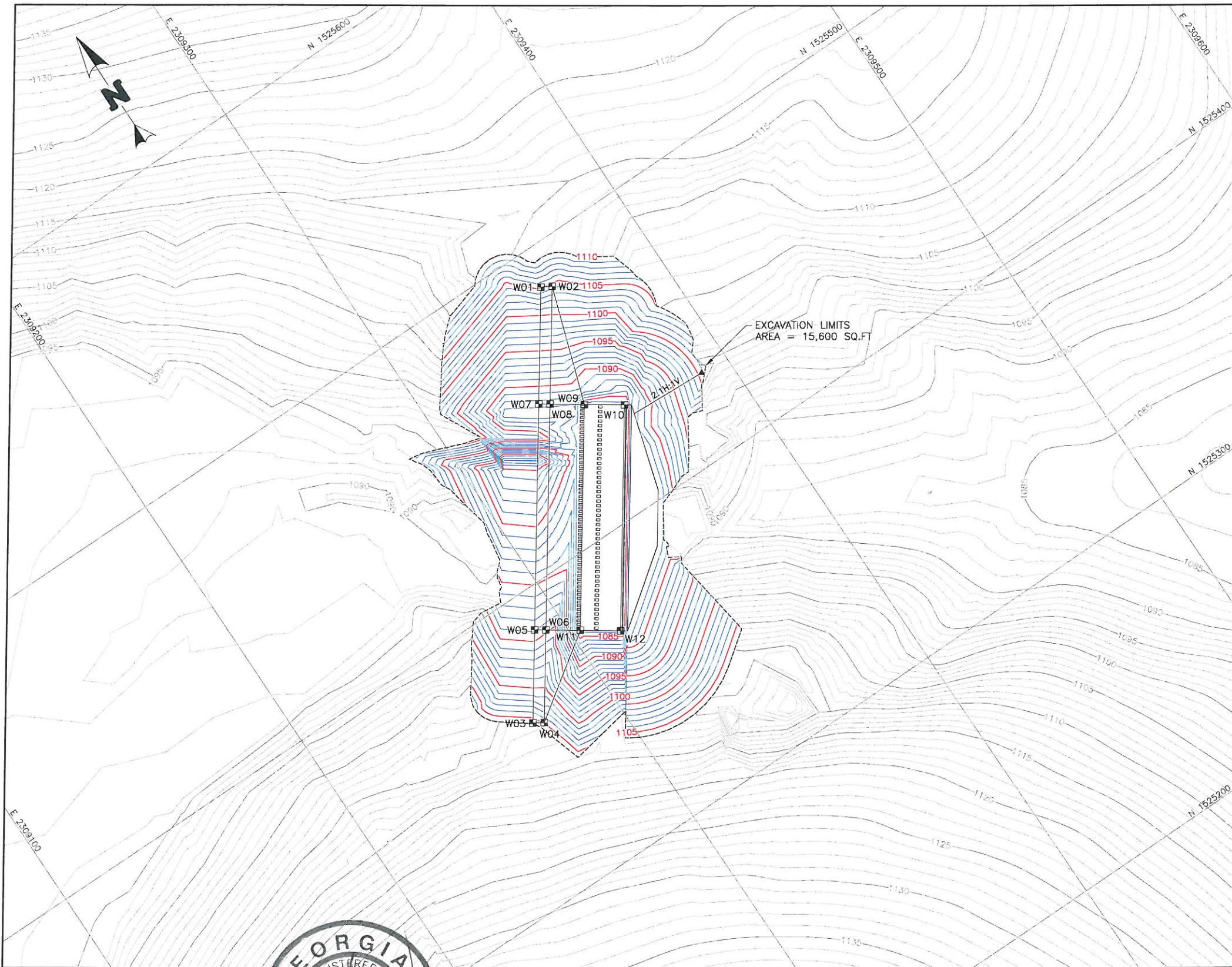
**NewFields** CLIENT **MASHBURN FAMILY TRUST**

PROJECT **LAKE ALICE REMEDIATION**  
**PHASE 1 - WEIR INSTALLATION**

TITLE **GENERAL ARRANGEMENT AND GEOTECHNICAL BOREHOLES**

FILENAME 150.0083.004M  
 DRAWING NO. **A100** REVISION **A**

P:\Projects\150.0083.004M Alice Lake\A-CAD\DWG\150.0083.004M.dwg-9/5/2014 10:04 AM



**LEGEND:**

- EXISTING GROUND CONTOURS
- PROPOSED GROUND CONTOURS
- BYPASS DISCHARGE PIPE
- TOP OF CONCRETE CONTROL POINT

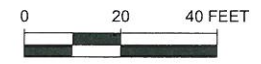
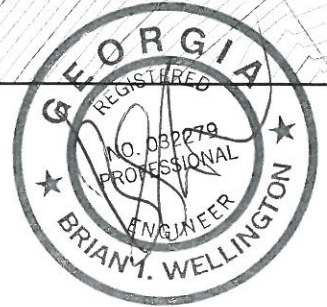
WEIR EXCAVATION CONTROL POINTS			
POINT	NORTHING	EASTING	ELEVATION
W01	1,525,486.17	2,309,359.23	1,104.00
W02	1,525,484.18	2,309,362.72	1,104.00
W03	1,525,359.40	2,309,271.32	1,104.00
W04	1,525,357.25	2,309,274.70	1,104.00
W05	1,525,386.46	2,309,290.09	1,104.00
W06	1,525,384.18	2,309,293.38	1,104.00
W07	1,525,452.20	2,309,335.68	1,104.00
W08	1,525,449.92	2,309,338.96	1,104.00
W09	1,525,442.90	2,309,349.00	1,084.00
W10	1,525,434.82	2,309,360.74	1,084.00
W11	1,525,377.25	2,309,303.47	1,084.00
W12	1,525,369.08	2,309,315.15	1,084.00

**DESIGN INFORMATION**

TOP ELEVATION (FT)	1104
NORMAL POOL ELEVATION (FT)	1100
SURFACE AREA AT NORMAL POOL (ACRES)	4.8
STORAGE AT NORMAL POOL (ACRE FEET)	20.35
HEIGHT OF WEIR (FT)	16
LENGTH OF WEIR (FT)	150
DRAINAGE BASIN (SQ. MILES)	0.93

STORM RETURN PERIOD	INCOMING FLOW (CFS)
2 YEAR	818
5 YEAR	1133
10 YEAR	1373
25 YEAR	1695
50 YEAR	1973
100 YEAR	2098
1/4 PMP	2018

**NOTE:**  
TOTAL EXCAVATION AREA = 15,600 FT<sup>2</sup>



REV	DATE	DESCRIPTION	TECH	ENG
A	08/29/14	ISSUED FOR CLIENT REVIEW	DS	BW

**APPROVED BY:** BW  
**CHECKED BY:** NR  
**DESIGNED BY:** BW  
**DRAWN BY:** DS

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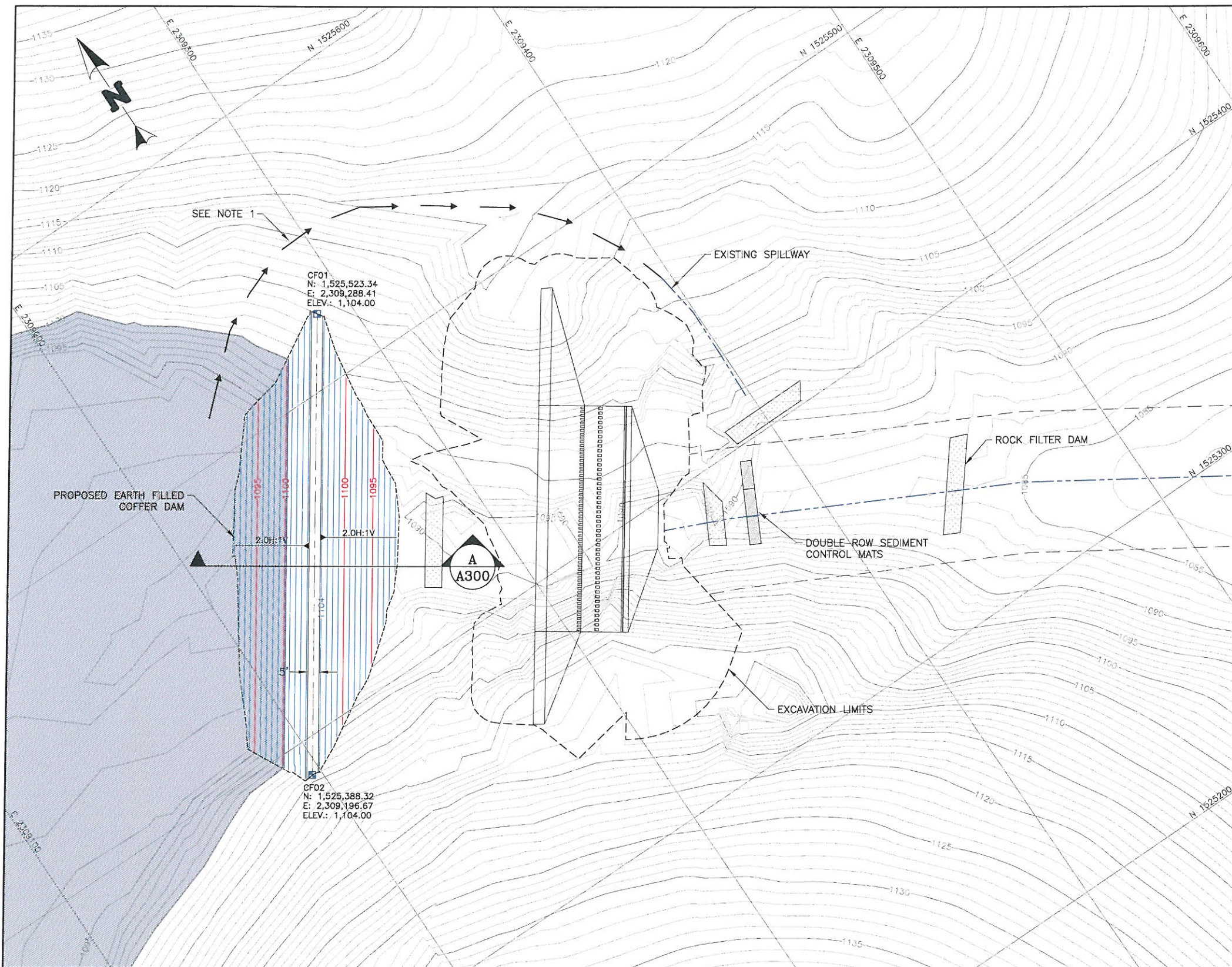
**NewFields** CLIENT: **MASHBURN FAMILY TRUST**

PROJECT: **LAKE ALICE REMEDIATION PHASE 1 - WEIR INSTALLATION**

TITLE: **WEIR LAYOUT**

FILENAME: 150.0083.005M  
 DRAWING NO.: **A150** REVISION: **A**

P:\Projects\150.0083.0000 Alice Lake\A-CAD\DWG\150.0083.005M.dwg-9/5/2014 10:54 AM



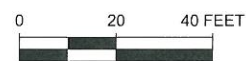
**LEGEND:**

- EXISTING GROUND CONTOURS
- PROPOSED GROUND CONTOURS
- PROPOSED GROUND CONTOURS
- EXISTING DRAINAGES
- BYPASS DISCHARGE PIPE
- 50' STREAM BUFFER BOUNDARY
- ROCK FILTER DAM

STREAM DIVERSION CONTROL POINTS			
POINT	NORTHING	EASTING	ELEVATION
CF01	1,525,523.34	2,309,288.41	1,104.00
CF02	1,525,388.32	2,309,196.67	1,104.00

DESIGN INFORMATION	
TOP ELEVATION (FT)	1104
MAXIMUM POOL ELEVATION (FT)	1100
SURFACE AREA AT MAX. POOL (ACRES)	4.8
STORAGE AT MAX. POOL (ACRE FEET)	20.35
HEIGHT OF STREAM DIVERSION STRUCTURE (FT)	16
LENGTH OF STREAM DIVERSION STRUCTURE (FT)	120
STREAM DIVERSION STRUCTURE FOOTPRINT (FT <sup>2</sup> )	6843

- NOTE:**
1. PROVIDE PUMP CAPABLE OF 900 GPM AT 35 FT HEAD. PUMP SHOULD PASS MINIMUM 2" SOLIDS. PUMP FROM UPSTREAM OF THE DIVERSION STRUCTURE TO EXISTING SPILLWAY.



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REV	DATE	DESCRIPTION	TECH	ENG
A	08/29/14	ISSUED FOR CLIENT REVIEW	DS	BW

**APPROVED BY:** BW  
**CHECKED BY:** NR  
**DESIGNED BY:** BW  
**DRAWN BY:** DS

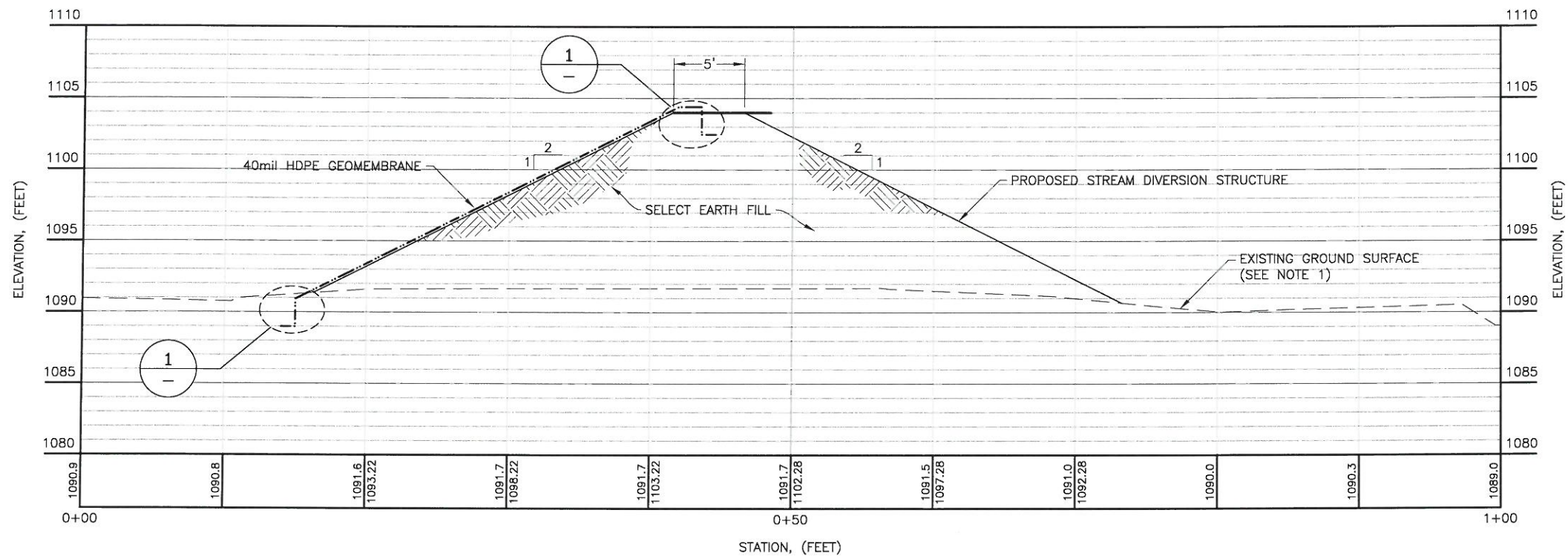
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**NewFields** CLIENT **MASHBURN FAMILY TRUST**

PROJECT **LAKE ALICE REMEDIATION PHASE 1 - WEIR INSTALLATION**

TITLE **STREAM DIVERSION STRUCTURE**

FILENAME 150.0083.003M  
 DRAWING NO. **A200** REVISION **A**

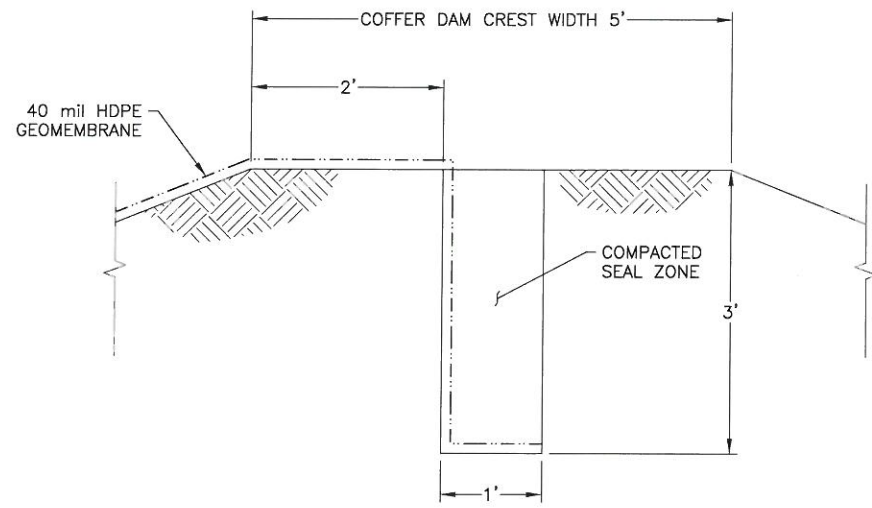


**NOTES:**

1. EXISTING GROUND SURFACE SHALL BE STRIPPED OF VEGETATION, SCARIFIED, AND COMPACTED PRIOR TO FILL PLACEMENT.



**A** STREAM DIVERSION STRUCTURE SECTION  
**A200**



**1** ANCHOR TRENCH



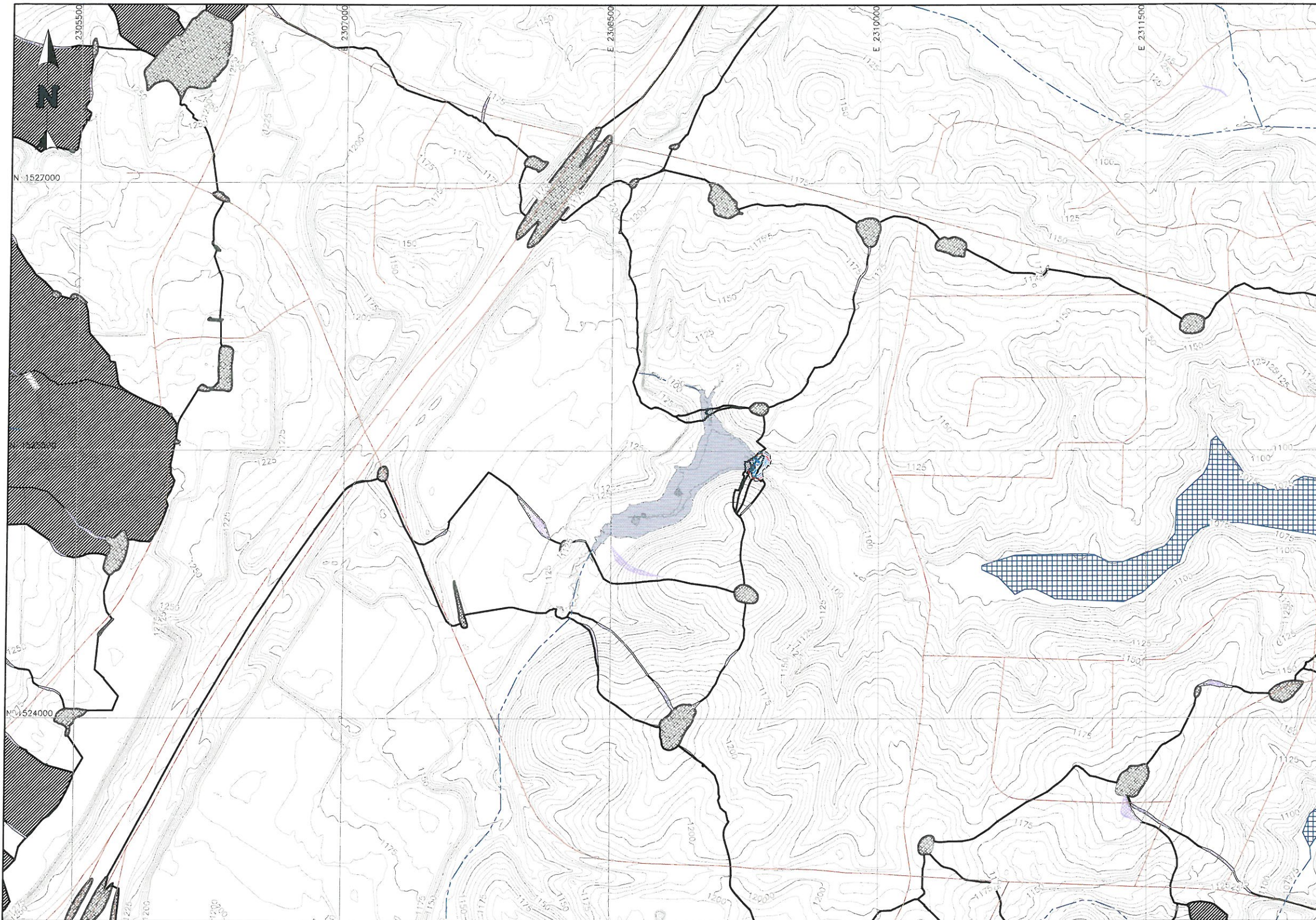
REV	DATE	DESCRIPTION	TECH	ENG
A	08/29/14	ISSUED FOR CLIENT REVIEW	DS	BW

APPROVED BY:	BW
CHECKED BY:	NR
DESIGNED BY:	BW
DRAWN BY:	DS

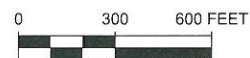
**DISCLAIMER**  
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<b>NewFields</b>	CLIENT <b>MASHBURN FAMILY TRUST</b>
PROJECT <b>LAKE ALICE REMEDIATION PHASE 1 - WEIR INSTALLATION</b>	
TITLE <b>STREAM DIVERSION STRUCTURE SECTION AND DETAILS</b>	FILENAME 150.0083.006D
	DRAWING NO. <b>A300</b>
	REVISION <b>A</b>

P:\Projects\150.0083.007M\Alice\_Lake\DWG\150.0083.007M.dwg - 9/5/2014 8:40 AM



- LEGEND:**
- EXISTING GROUND CONTOURS
  - PROPOSED GROUND CONTOURS
  - EXISTING ROADS/TRAILS
  - EXISTING DRAINAGES
  - WATERSHED LIMITS
  - FLAT AREAS



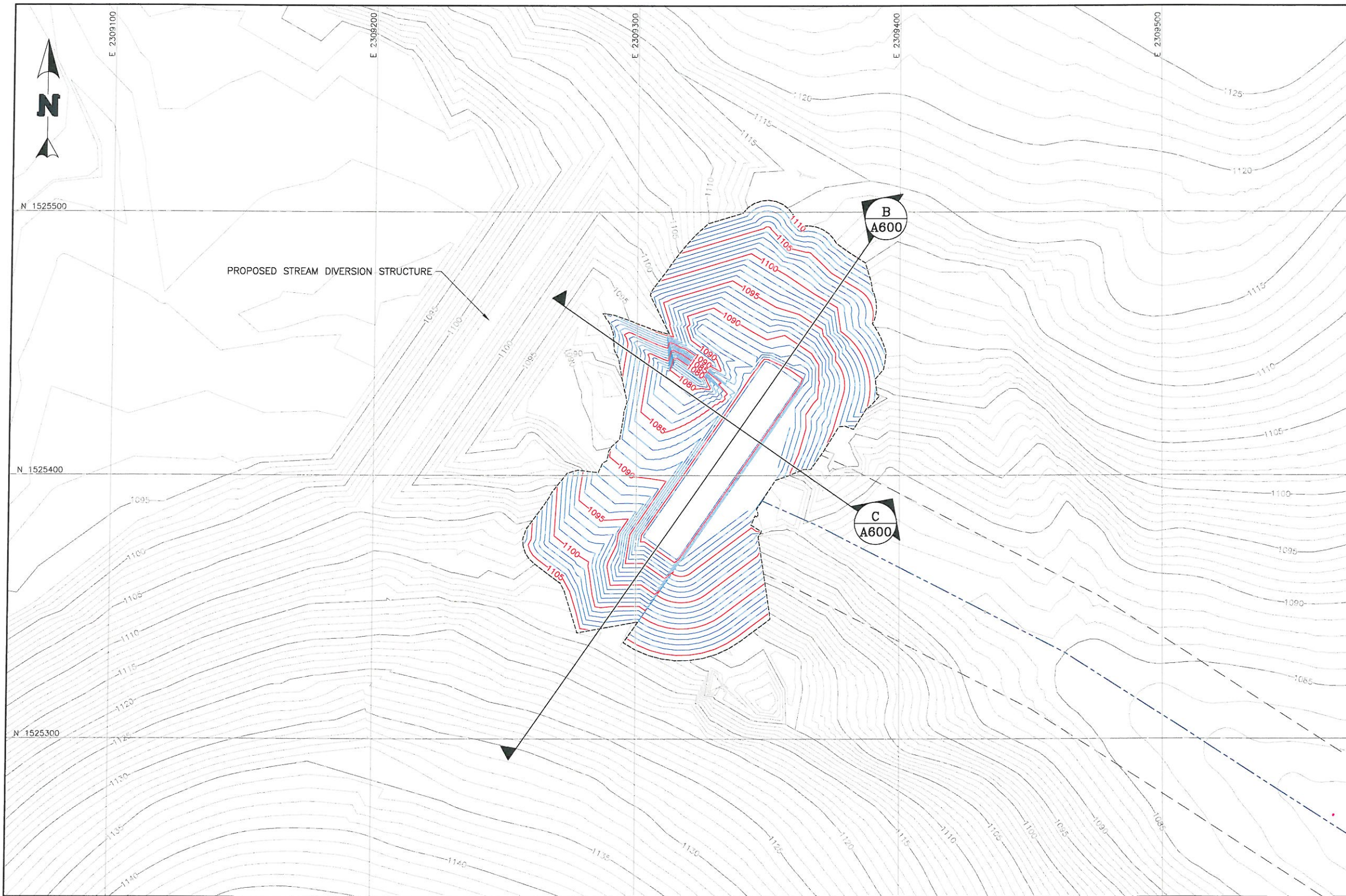
A	08/29/14	ISSUED FOR CLIENT REVIEW	DS	BW	
REV	DATE	DESCRIPTION	TECH	ENG	

APPROVED BY: BW  
 CHECKED BY: NR  
 DESIGNED BY: BW  
 DRAWN BY: DS

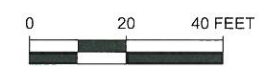
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	CLIENT	MASHBURN FAMILY TRUST
	PROJECT	LAKE ALICE REMEDIATION PHASE 1 - WEIR INSTALLATION
TITLE	WATERSHED MAP	
	FILENAME	150.0083.007M
	DRAWING NO.	A400
	REVISION	A

I:\Projects\150.0083.0030 Alice Lake\A-CAD\DWG\150.0083.008M.dwg-9/4/2014 1:51 PM



- LEGEND:**
- EXISTING GROUND CONTOURS
  - PROPOSED GROUND CONTOURS
  - EXISTING DRAINAGE
  - 50' STREAM BUFFER BOUNDARY

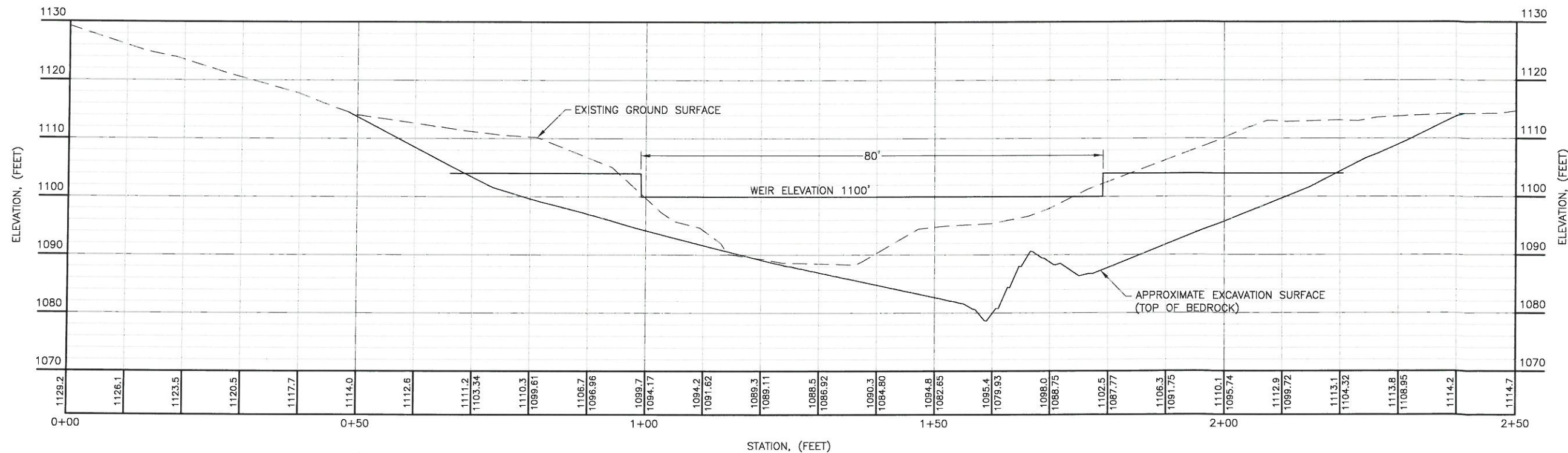


REV	DATE	DESCRIPTION	TECH	ENG
A	08/29/14	ISSUED FOR CLIENT REVIEW	DS	BW

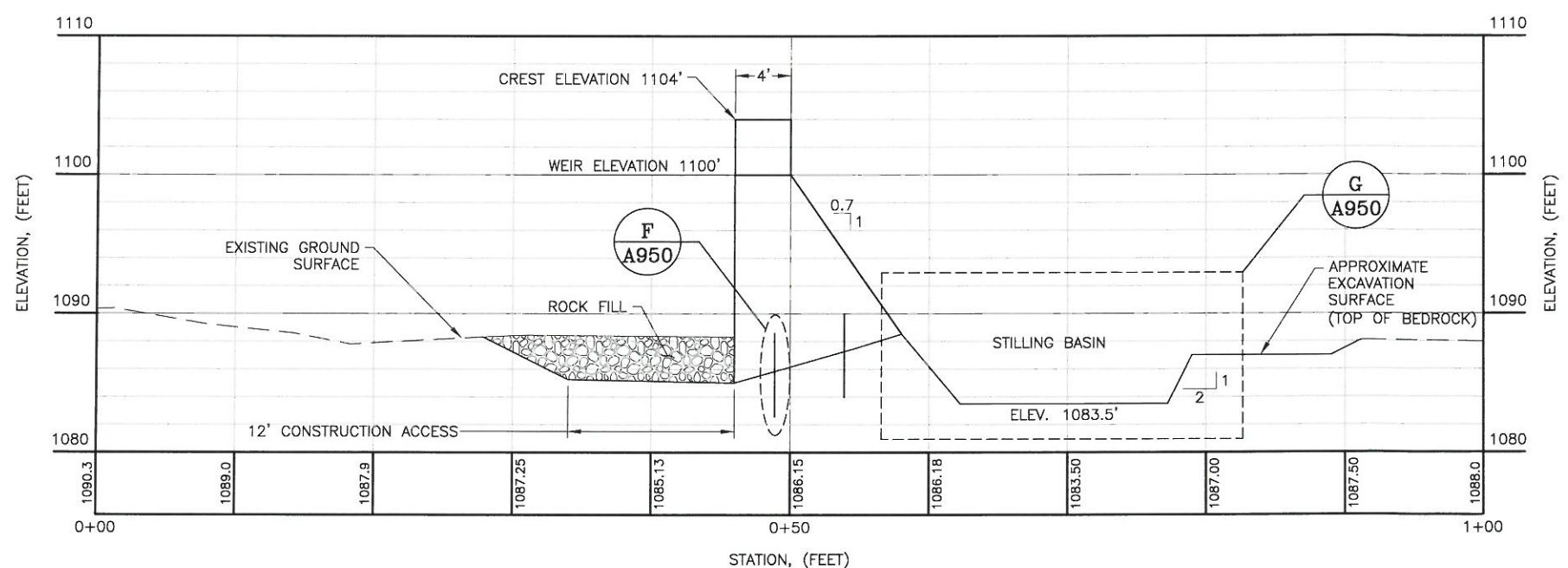
**APPROVED BY:** BW  
**CHECKED BY:** NR  
**DESIGNED BY:** BW  
**DRAWN BY:** DS

**DISCLAIMER**  
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	CLIENT	MASHBURN FAMILY TRUST
	PROJECT	LAKE ALICE REMEDIATION PHASE 1 - WEIR INSTALLATION
TITLE	WEIR GRADING PLAN	FILENAME 150.0083.008M DRAWING NO. A500 REVISION A



**B TRAVERSE SECTION**  
A500



**C LONGITUDINAL SECTION**  
A500



REV	DATE	DESCRIPTION	TECH	ENG
A	08/28/14	ISSUED FOR CLIENT REVIEW	DS	BW

APPROVED BY: BW  
 CHECKED BY: NR  
 DESIGNED BY: BW  
 DRAWN BY: DS

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**NewFields** CLIENT: **MASHBURN FAMILY TRUST**

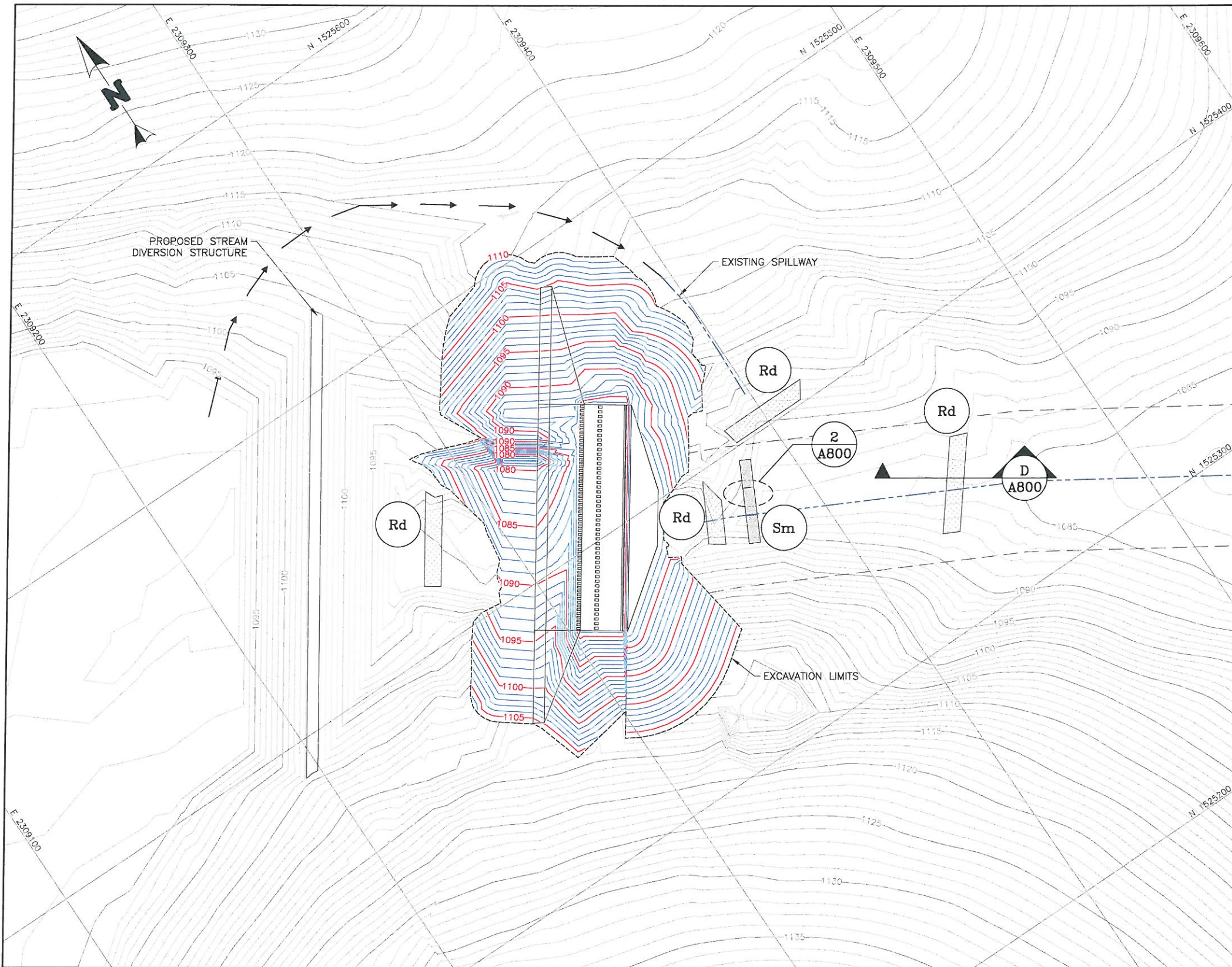
PROJECT: **LAKE ALICE REMEDIATION PHASE 1 - WEIR INSTALLATION**

TITLE: **EXCAVATION SECTIONS**

FILENAME: 150.0083.009D  
 DRAWING NO.: **A600** REVISION: **A**

F:\Projects\150.0083.009D Alice Lake\A-CAD\DWG\150.0083.009D.dwg--9/5/2014 9:02 AM





- LEGEND:**
- EXISTING GROUND CONTOURS
  - PROPOSED GROUND CONTOURS
  - BYPASS DISCHARGE PIPE
  - EXISTING DRAINAGES
  - 50' STREAM BUFFER BOUNDARY
  - Rd
  - ROCK FILTER DAM
  - Sm
  - IN-STREAM SEDIMENT CONTROL MAT



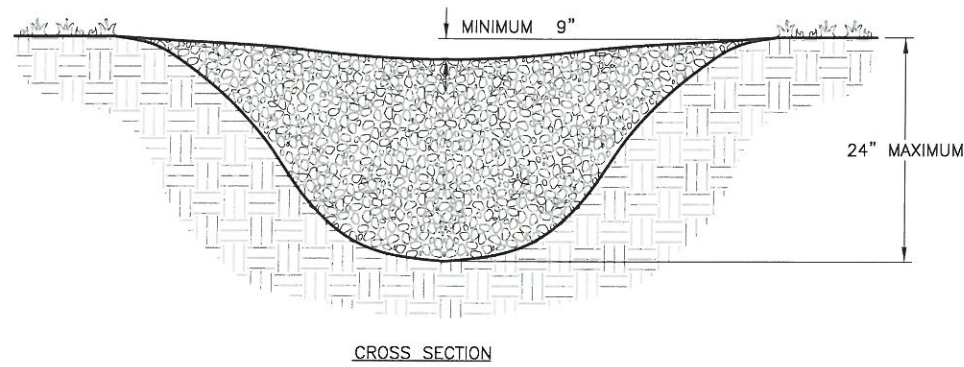
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REV	DATE	DESCRIPTION	TECH	ENG
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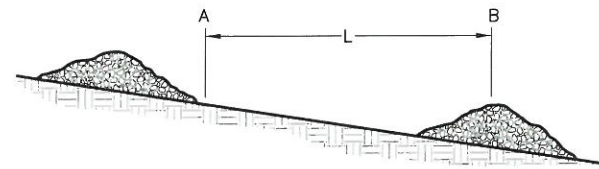
APPROVED BY: BW  
 CHECKED BY: NR  
 DESIGNED BY: BW  
 DRAWN BY: DS

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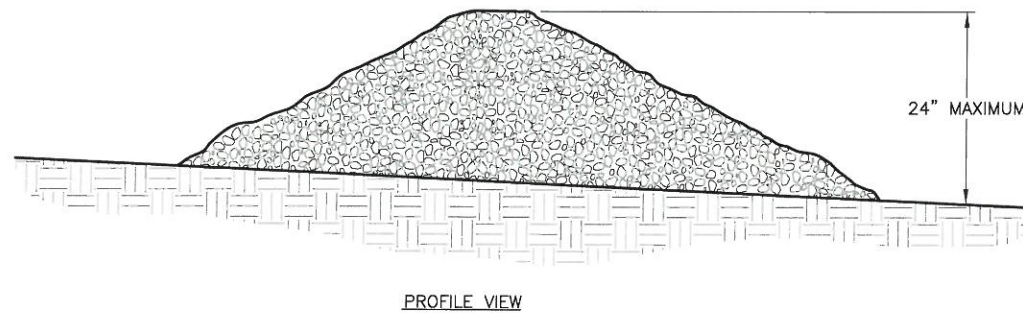
	CLIENT	MASHBURN FAMILY TRUST
	PROJECT	LAKE ALICE REMEDIATION PHASE 1 - WEIR INSTALLATION
TITLE	EROSION CONTROL PLAN	FILENAME 150.0083.011M
		DRAWING NO. A700
		REVISION A



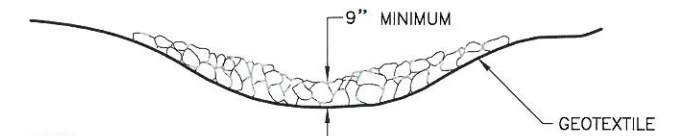
SPACING BETWEEN CHECK DAMS:  
A = THE TOE OF THE UPSTREAM CHECK DAM.  
B = TOP OF THE DOWNSTREAM CHECK DAM.  
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.



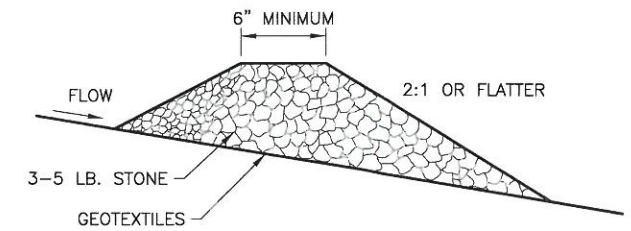
STONE CHECK DAM



Cd STONE CHECK DAM



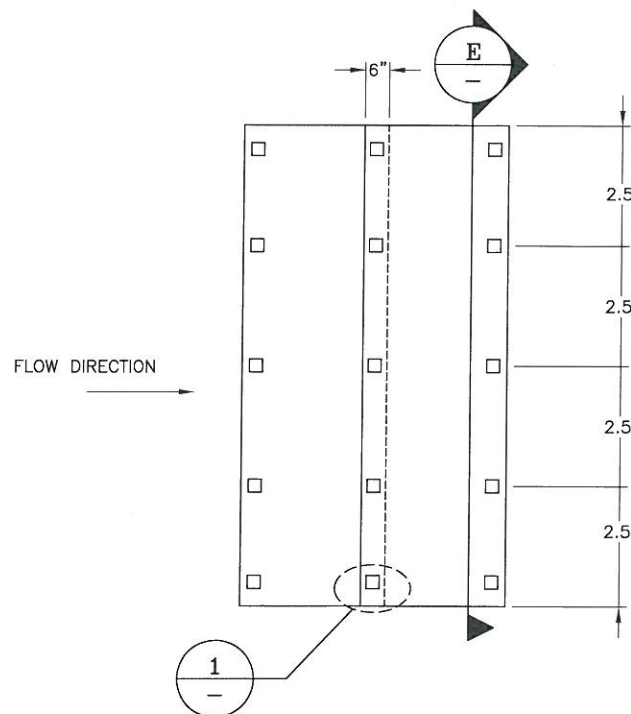
NOTE:  
ROCK FILTER DAM IS TO BE CLEANED OUT WHEN VOLUME BECOMES HALF FULL.



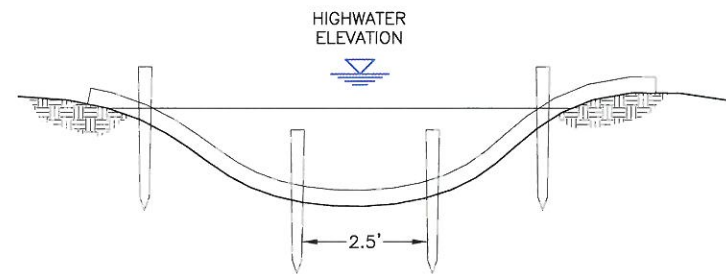
NOTE:  
ROCK SIZE DETERMINED ACCORDING TO SPECIFICATIONS

Rd D ROCK FILTER DAM  
A700

- CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
- THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
- THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
- THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
- THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
- GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

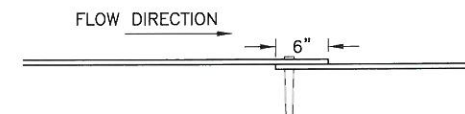


Sm 2 IN-SEDIMAT CONTROL MAT PLACEMENT  
A700



E SEDIMAT ANCHORING

- OVERLAP UPSTREAM MAT BELOW DOWNSTREAM.
- HEAVY STONES CAN BE SUBSTITUTED FOR WOODEN STAKES.
- MATS SHOULD BE PLACED ACROSS THE ENTIRE WIDTH OF CHANNEL.



1 SEDIMAT OVERLAP



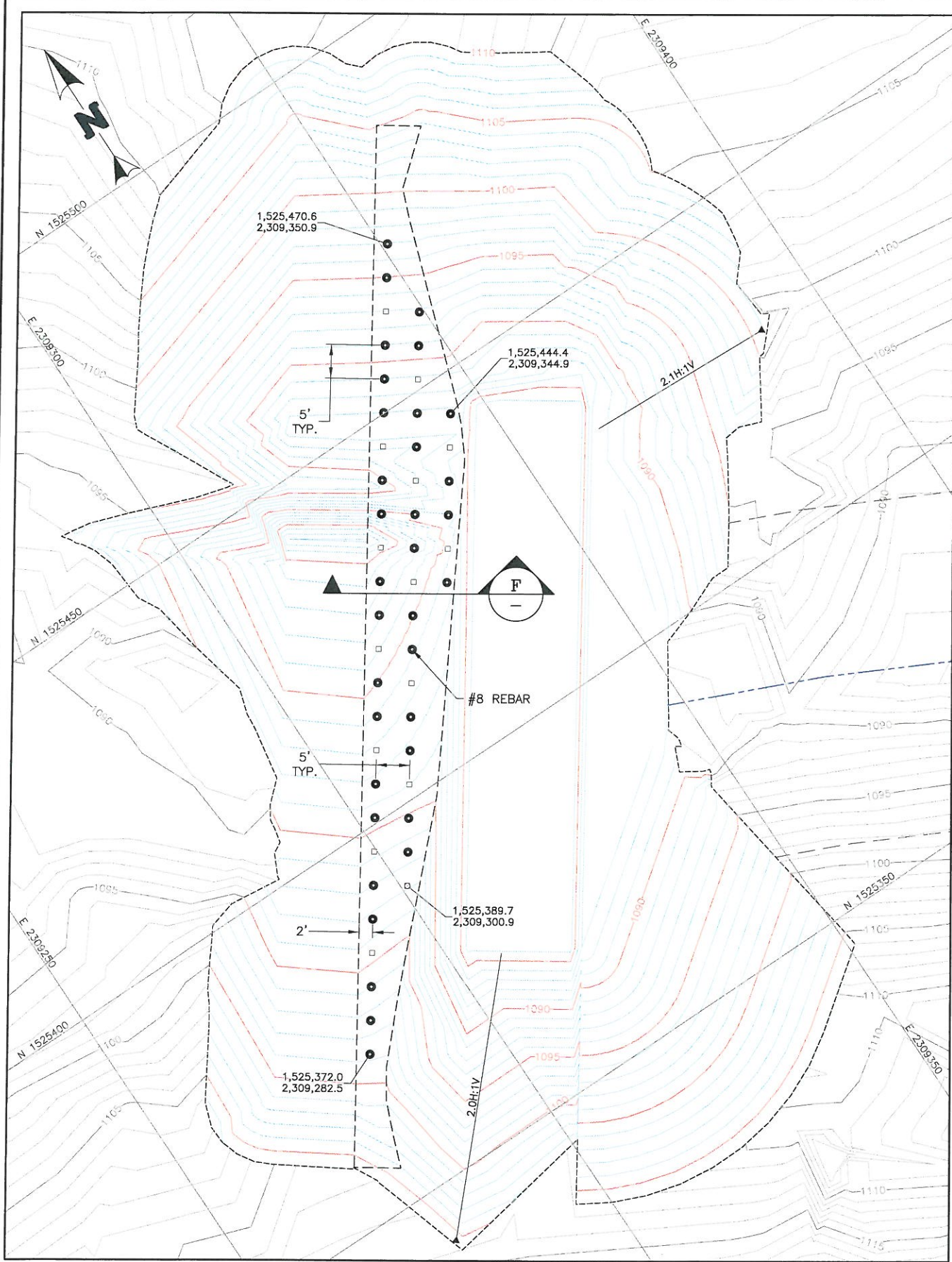
REV	DATE	DESCRIPTION	TECH	ENG
A	08/29/14	ISSUED FOR CLIENT REVIEW	DS	BW

APPROVED BY:	BW
CHECKED BY:	NR
DESIGNED BY:	BW
DRAWN BY:	DS

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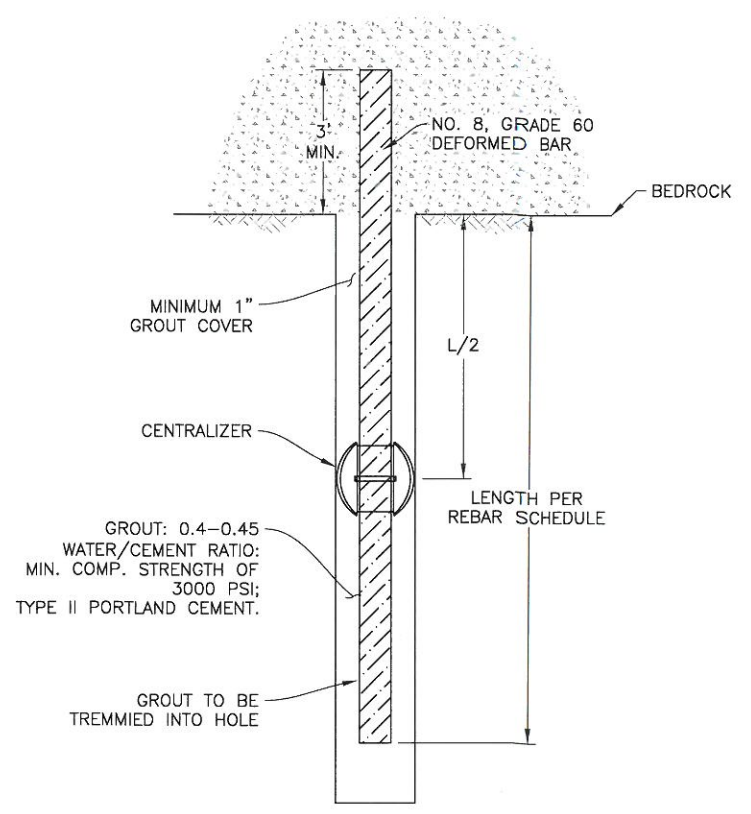
<b>NewFields</b>		CLIENT	MASHBURN FAMILY TRUST
PROJECT		LAKE ALICE REMEDIATION PHASE 1 - WEIR INSTALLATION	
TITLE		EROSION CONTROL SECTIONS AND DETAILS	
FILENAME		150.0083.010D	
DRAWING NO.	REVISION	A800 A	

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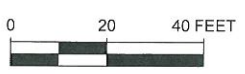


- LEGEND:**
- EXISTING GROUND CONTOURS
  - PROPOSED GROUND CONTOURS
  - EXISTING DRAINAGE
  - 50' STREAM BUFFER BOUNDARY

REBAR SCHEDULE	
SYMBOL	EMBEDMENT LENGTH
●	5 FEET
□	10 FEET



**F REBAR ANCHORING**



F:\Projects\150.0083.013D Alice Lake\150.0083.013D.dwg--9/5/2014 11:27 AM

REV	DATE	DESCRIPTION	TECH	ENG
A	08/29/14	ISSUED FOR CLIENT REVIEW	DS	BW

**APPROVED BY:** BW  
**CHECKED BY:** NR  
**DESIGNED BY:** BW  
**DRAWN BY:** DS

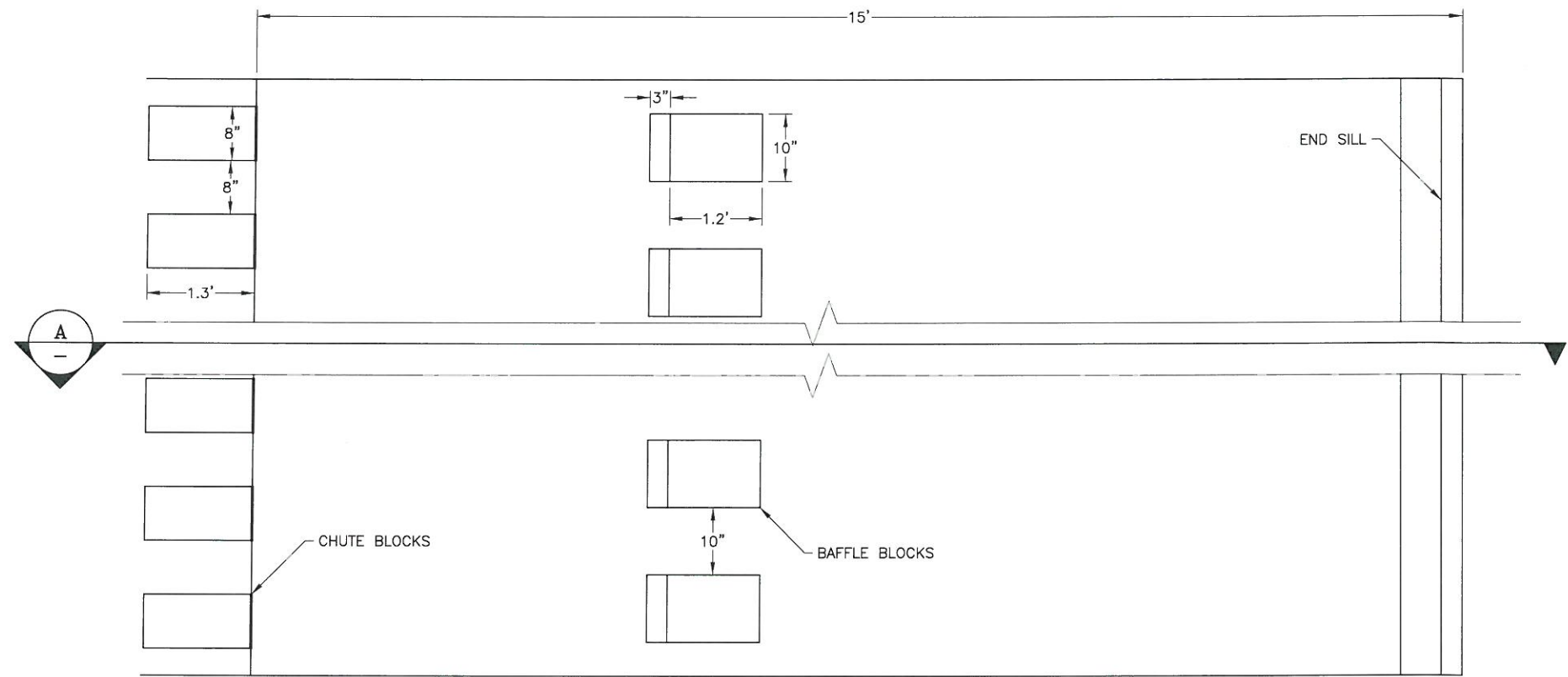
**DISCLAIMER**  
 NEWFIELDS PRODUCED THE INFORMATION PRESENTED ON THIS DRAWING THROUGH THE USE OF AVAILABLE TECHNICAL INFORMATION AND EXPERIENCE. RECEIVING THIS DRAWING DOES NOT GUARANTEE ANY RIGHTS TO EITHER SUCH TECHNICAL INFORMATION OR EXPERIENCE. ANY MODIFICATION OR ADAPTATION OF THE DATA OR DRAWING SHALL BE AT USER'S RISK AND WITHOUT ANY LIABILITY OR LEGAL RESPONSIBILITY TO NEWFIELDS.

**NewFields** CLIENT: **MASHBURN FAMILY TRUST**

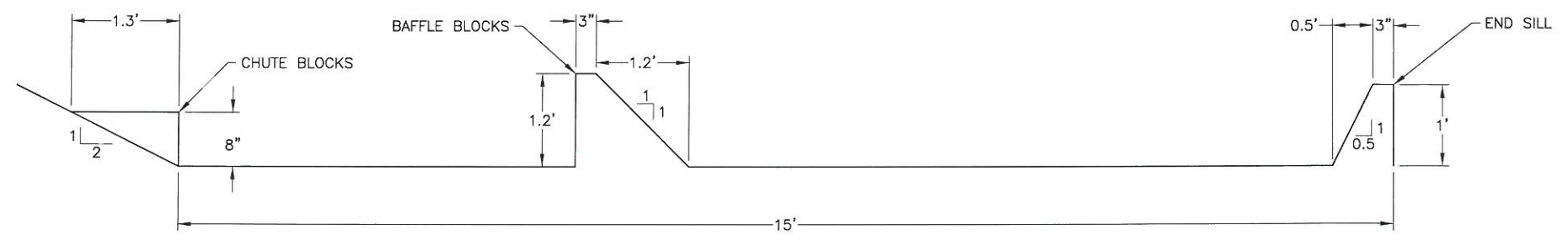
PROJECT: **LAKE ALICE REMEDIATION PHASE 1 - WEIR INSTALLATION**

TITLE: **CONCRETE REINFORCEMENT PLAN**

FILENAME: 150.0083.013D  
 DRAWING NO.: **A900** REVISION: **A**

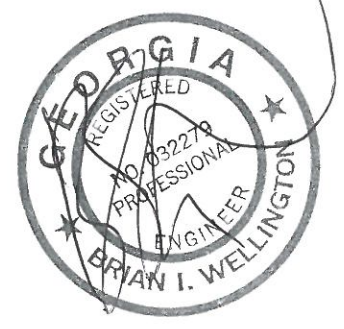


STILLING BASIN PLAN



PROFILE

A STILLING BASIN



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				APPROVED BY: BW	<b>DISCLAIMER</b> NEWFIELDS PRODUCED THE INFORMATION PRESENTED ON THIS DRAWING THROUGH THE USE OF AVAILABLE TECHNICAL INFORMATION AND EXPERIENCE. RECEIVING THIS DRAWING DOES NOT GUARANTEE ANY RIGHTS TO EITHER SUCH TECHNICAL INFORMATION OR EXPERIENCE. ANY MODIFICATION OR ADAPTATION OF THE DATA OR DRAWING SHALL BE AT USER'S RISK AND WITHOUT ANY LIABILITY OR LEGAL RESPONSIBILITY TO NEWFIELDS.		CLIENT	MASHBURN FAMILY TRUST	
				CHECKED BY: NR			PROJECT	LAKE ALICE REMEDIATION PHASE 1 - WEIR INSTALLATION	
				DESIGNED BY: BW		TITLE	CONCRETE REINFORCEMENT SECTIONS	FILENAME	150.0083.012D
REV	DATE	DESCRIPTION	TECH	ENG		DRAWN BY: DS		DRAWING NO.	REVISION
A	08/29/14	ISSUED FOR CLIENT REVIEW	DS	BW			A910	A	

CREST ELEVATION 1104'

WEIR ELEVATION 1100'

ELEVATION 1097'

ELEVATION 1091'

③

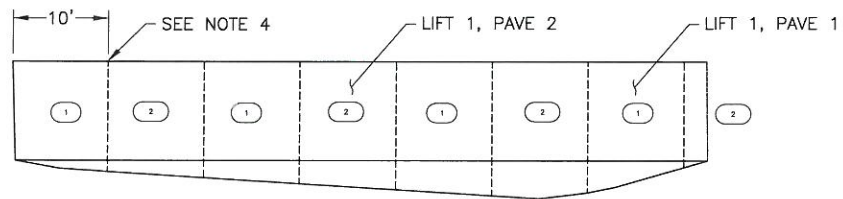
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①

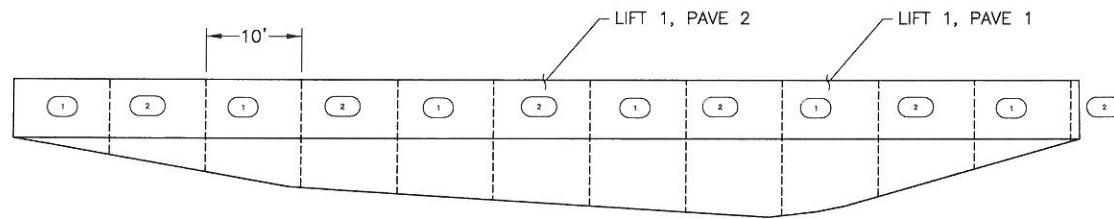
**CONCRETE PLACEMENT**

**NOTES:**

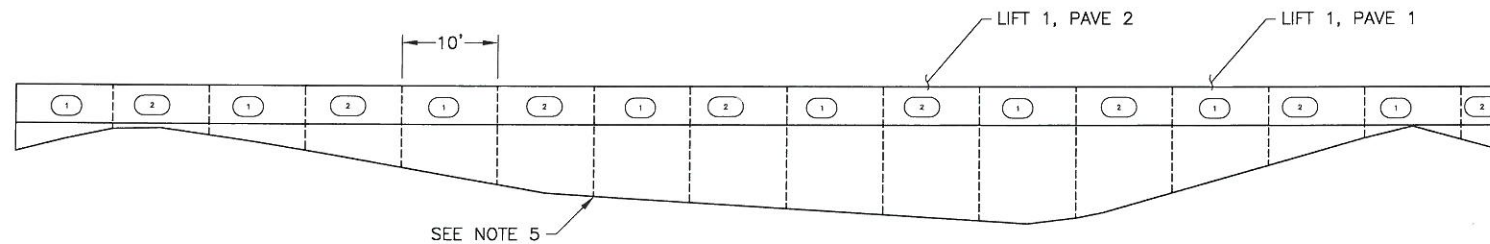
1. FOR FIRST CONCRETE LIFT, CONTRACTOR MUST WAIT 48 HOURS BETWEEN FIRST AND SECOND POUR TO ALLOW TIME FOR CURE AND COOLING.
2. FOR SECOND AND THIRD LIFTS, CONTRACTOR MUST WAIT 7 DAYS BETWEEN FIRST AND SECOND POUR TO ALLOW TIME FOR CURE AND COOLING.
3. SURFACE OF FIRST AND SECOND LIFT SHALL BE ROUGHENED PRIOR TO PLACEMENT OF ADDITIONAL CONCRETE.
4. EXPANDING ROPE WATERSTOP SHALL BE PLACED ALONG ALL COLD JOINTS.
5. COLD JOINTS SHALL BE STAGGERED BETWEEN CONCRETE LIFTS.
6. CONCRETE MIX DESIGN SHALL BE SUBMITTED FOR APPROVAL. THE FOLLOWING PERFORMANCE CHARACTERISTICS ARE REQUIRED:
  - a. TYPE II CEMENT
  - b. MAXIMUM 0.35 WATER/CEMENT RATIO
  - c. MAXIMUM SLUMP 7-INCHES
  - d. 18%-22% OF CEMENT REPLACED WITH FLY ASH.



**LIFT 1 PLAN VIEW**



**LIFT 2 PLAN VIEW**



**LIFT 3 PLAN VIEW**

**CONCRETE LIFTS**



REV	DATE	DESCRIPTION	TECH	ENG
A	08/28/14	ISSUED FOR CLIENT REVIEW	DS	BW

APPROVED BY:	BW
CHECKED BY:	NR
DESIGNED BY:	BW
DRAWN BY:	DS

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<b>NewFields</b>	CLIENT	MASHBURN FAMILY TRUST
PROJECT	LAKE ALICE REMEDIATION PHASE 1 - WEIR INSTALLATION	
TITLE	CONCRETE REINFORCEMENT SECTIONS	FILENAME 150.0083.014D
		DRAWING NO. A920
		REVISION A

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