

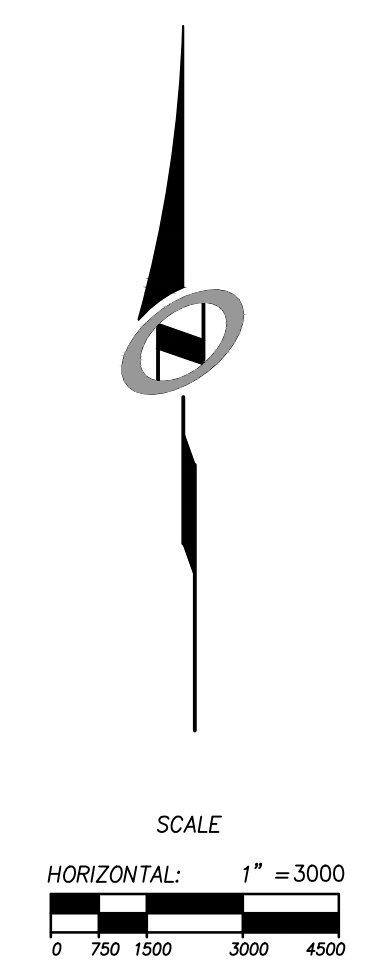
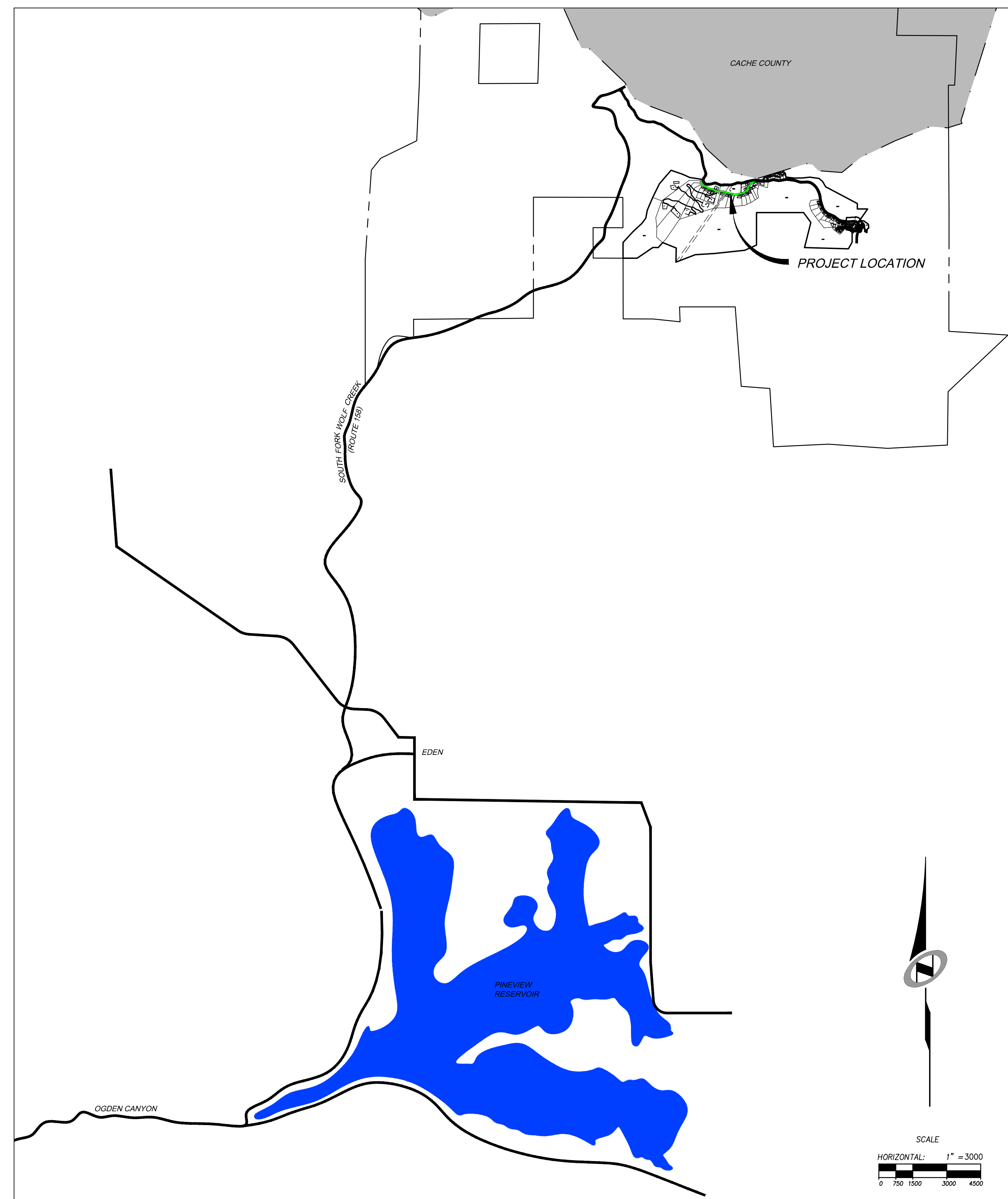
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BOWDEN
 XREFS:

SUMMIT EDEN PHASE 1A

ROADWAY AND UTILITY CONSTRUCTION DRAWINGS

Located in Sec 01 T7N R1E
Weber County, Utah



SHEET INDEX:

SHEET NUMBER	SHEET DESCRIPTION
1.00	CIVIL TITLE SHEET
1.01	GENERAL NOTES, LEGEND, AND KEYNOTES
1.02	SHEET KEYMAP
1.03	OVERALL UTILITY
1.04	OVERALL GRADING
1.05	TYPICAL ROADWAY SECTION
2.00	PLAN & PROFILE - HORIZON RUN
2.01	PLAN & PROFILE - HORIZON RUN
2.02	PLAN & PROFILE - HORIZON RUN
3.00	EARTHWORK & SECTIONS - HORIZON RUN
3.01	EARTHWORK & SECTIONS - HORIZON RUN
3.02	EARTHWORK & SECTIONS - HORIZON RUN
4.00	EROSION CONTROL PLAN - HORIZON RUN
4.01	EROSION CONTROL PLAN - HORIZON RUN
5.00	STORM DRAIN DETAILS
5.10	SEWER DETAILS
5.20	ELECTRICAL DETAILS
5.30	MISCELLANEOUS DETAILS
E1	ELECTRICAL NOTES AND DETAILS
E2	ELECTRICAL SITE PLAN AND SEWAGE LIFT STATION NUMBER 2
E3	LIFT STATION NUMBER 2 POWER ONE-LINE DIAGRAM
GE-1	ELECTRICAL DETAILS
GE-2	ELECTRICAL DETAILS

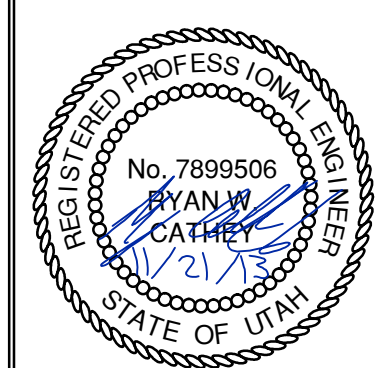
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1	RWC	8/27/2013	ADDendum 1
2	RWC	9/24/2013	UTILITY, GRADING, AND ROCKET REV

The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.
CAUTION

SUMMIT EDEN PHASE 1A
CIVIL TITLE SHEET

PREPARED FOR: SUMMIT, LLC
 DATE SUBMITTED: 11/21/2013

NV5
 BEYOND ENGINEERING
 627 SOUTH STATE STREET, SUITE 200
 801743.0300 TEL 801743.0300 FAX
 MURRAY, UT 84107
 WWW.NV5.COM

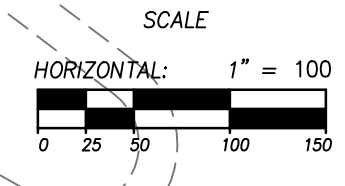
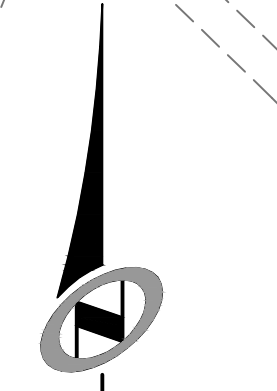
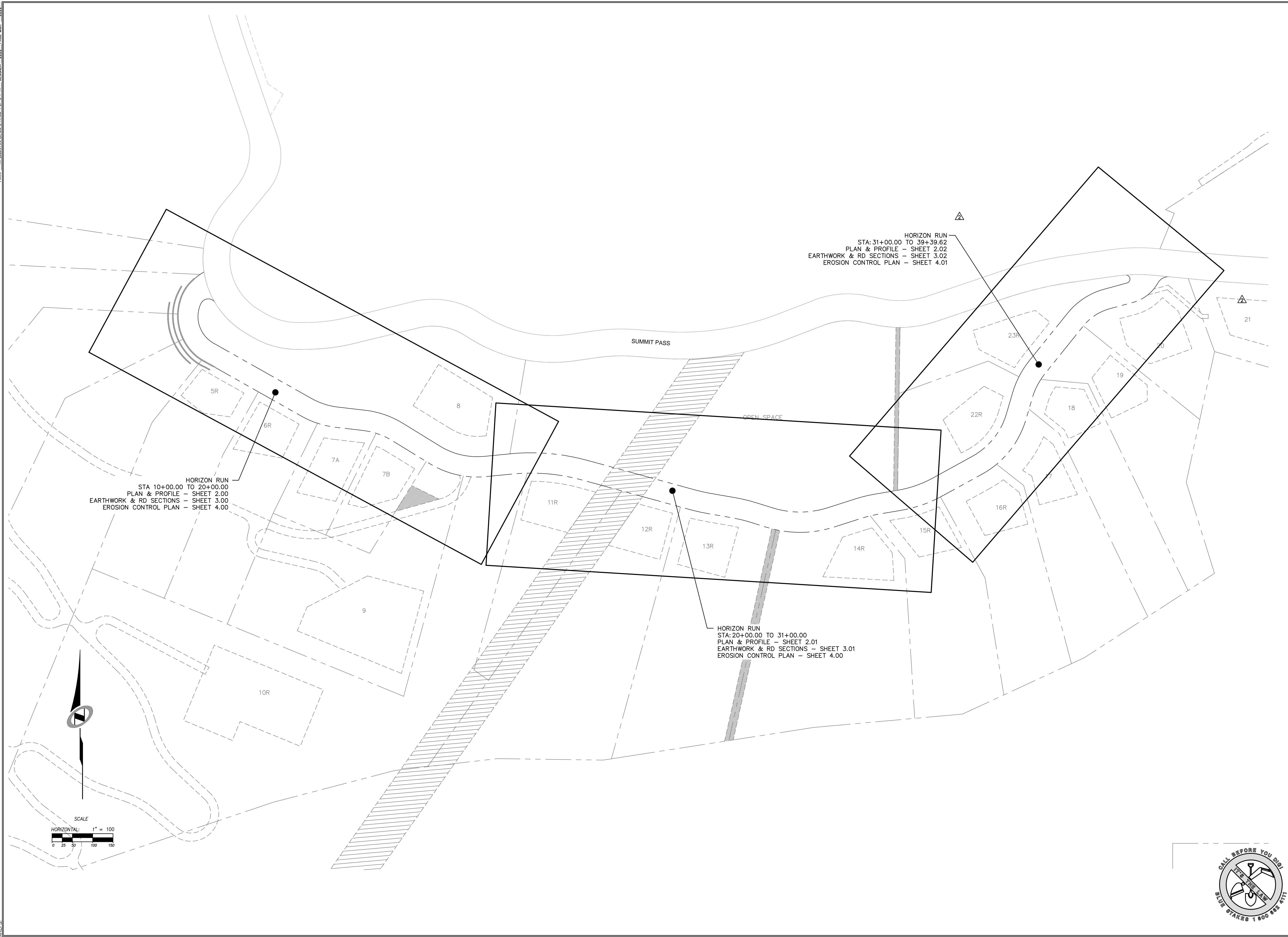


SHEET NUMBER
1.00

SCALE
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 HORIZONTAL: 1" = 3000'

JOB NUMBER
SLB079306





NO.	BY	DATE	REVISIONS
1	RWC	8/27/2013	ADDENDUM 1
2	RWC	9/24/2013	UTILITY, GRADING, AND ROCKERY REV

The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. The user of these plans is advised that they are not to be used for any purpose other than that intended and must be approved by the preparer of these plans.

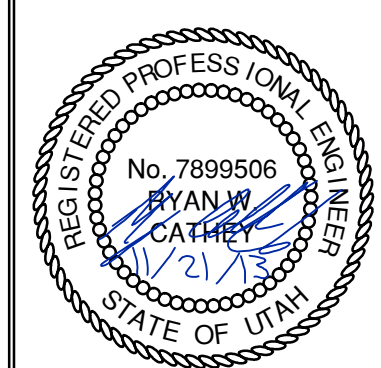
DATE SUBMITTED: 11/21/2013

PREPARED FOR: SUMMIT, LLC

SUMMIT EDEN PHASE 1A

SHEET KEYMAP

NV5
 BEYOND ENGINEERING
 6217 SOUTH STATE STREET, SUITE 200
 MURRAY, UT 84107
 801.743.0300 TEL. 801.743.0300 FAX
 WWW.NV5.COM



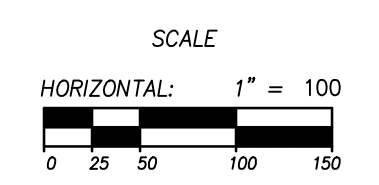
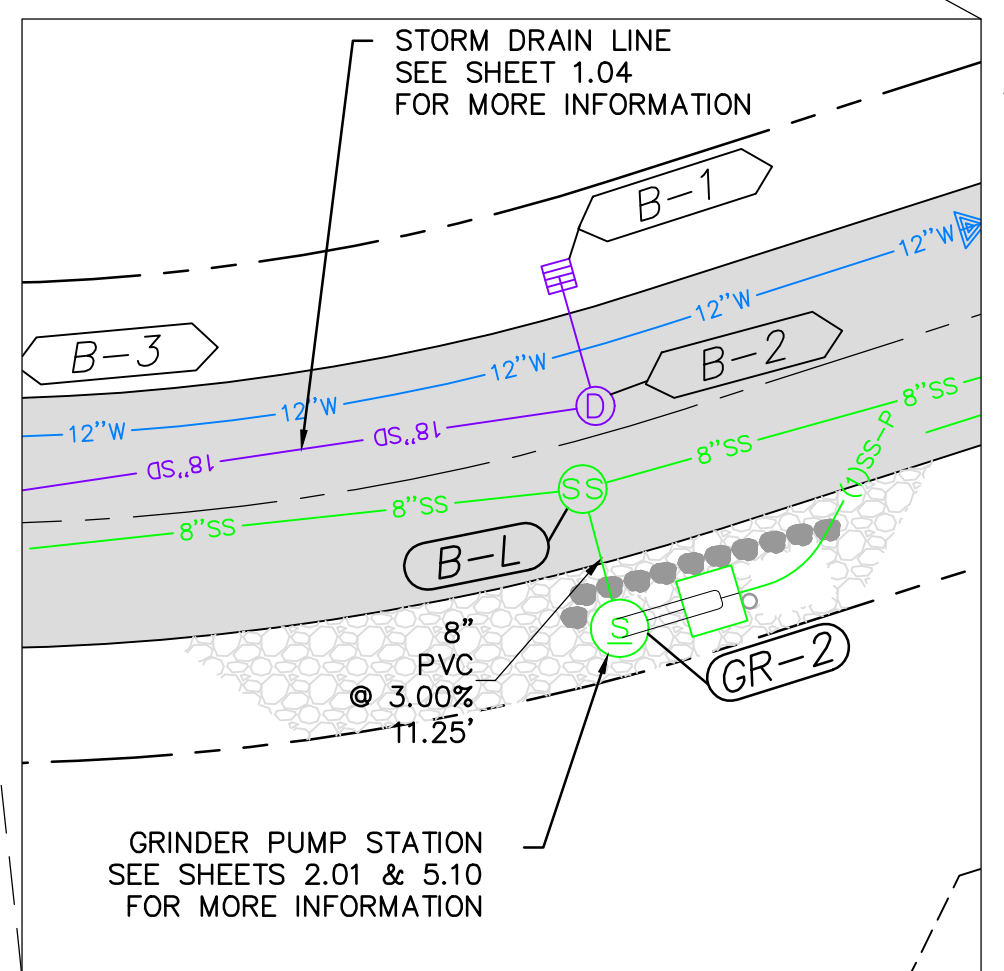
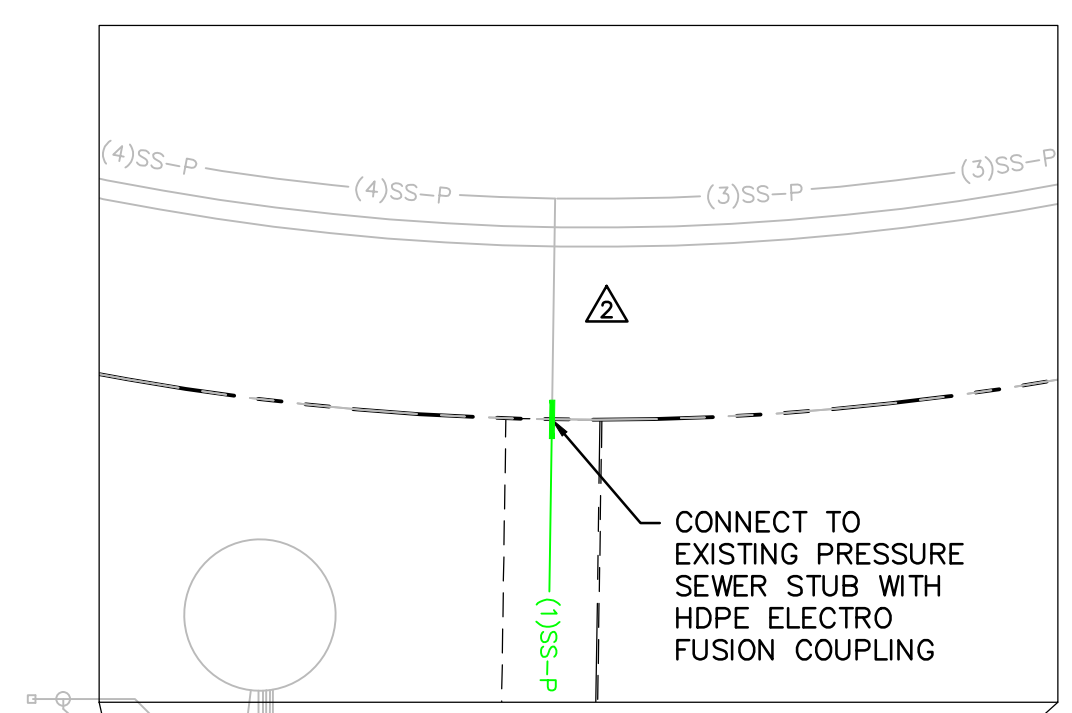
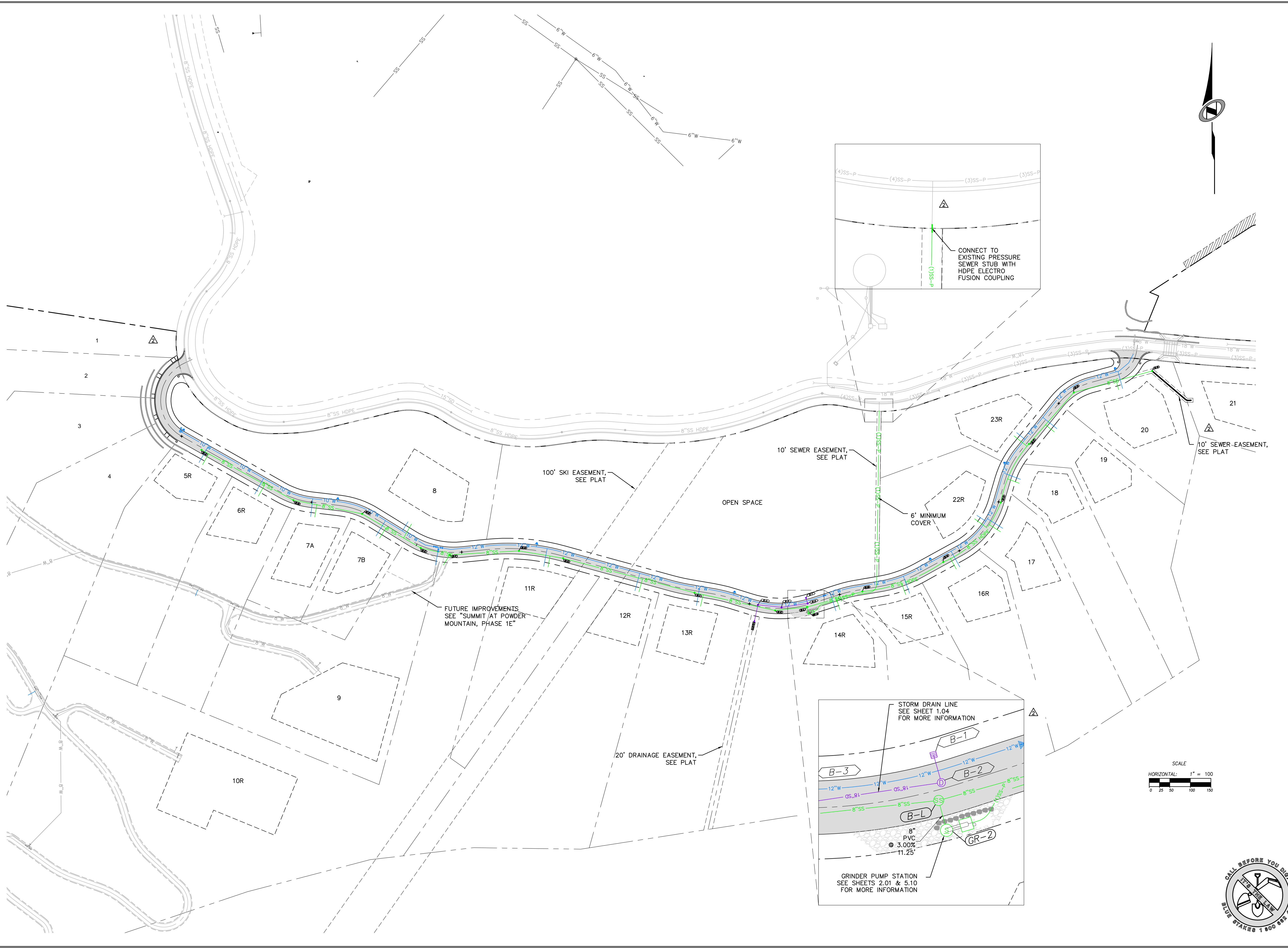
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1.02

SCALE
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JOB NUMBER
SLB079306

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BOWDEN
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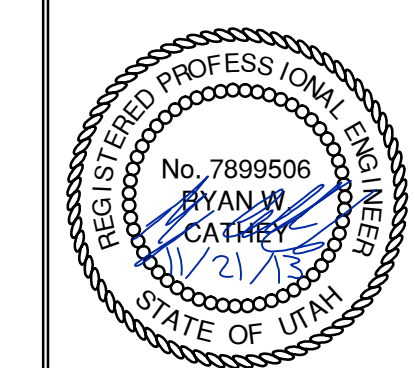


NO.	BY	DATE	REVISIONS
1	PMC	8/27/2013	ADDITIONAL UTILITY, GRADING, AND SOCKET REV.
2	PMC	9/24/2013	

SUMMIT EDEN PHASE 1A

OVERALL UTILITY PLAN

NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 801743.000 TEL. 801743.000 FAX
 MURRAY, UT 84107
 WWW.NV5.COM



SHEET NUMBER
1.03

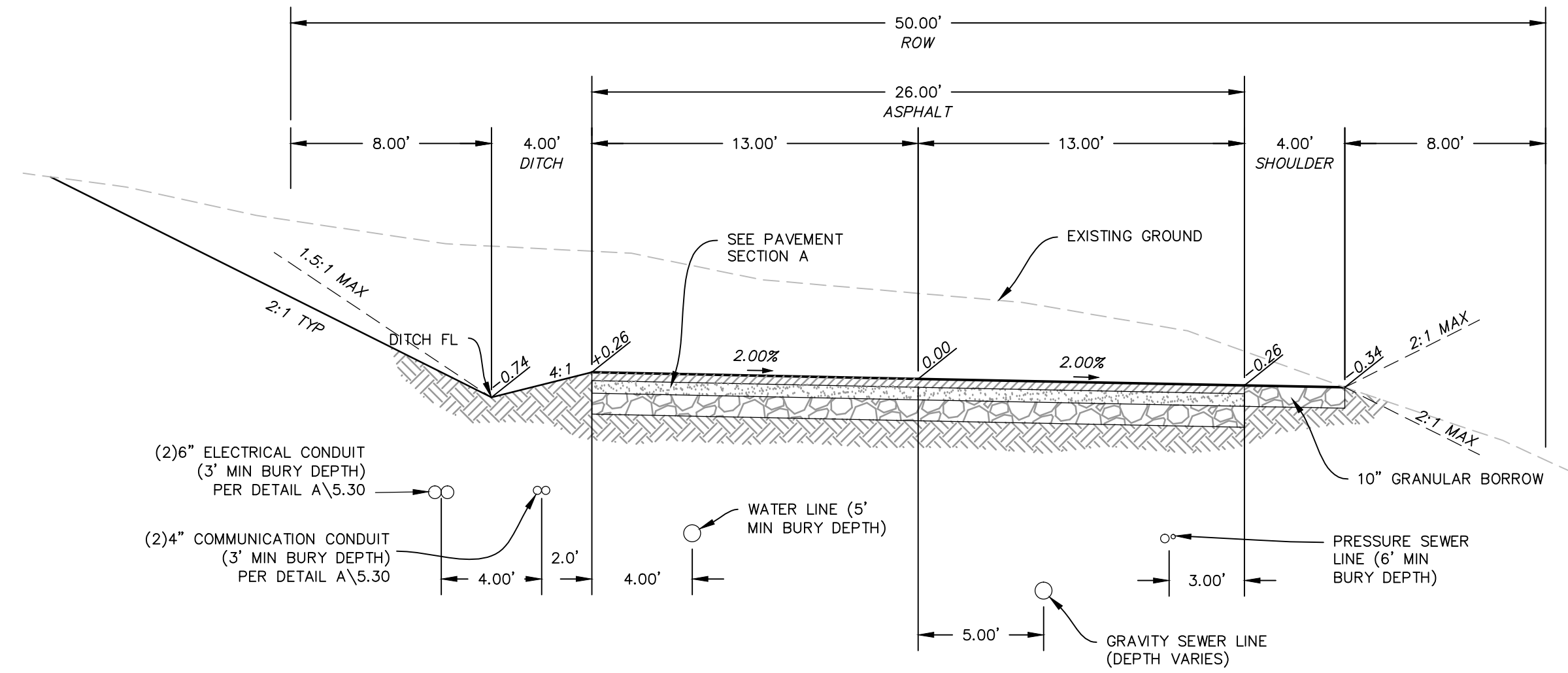
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JOB NUMBER
SLB079306

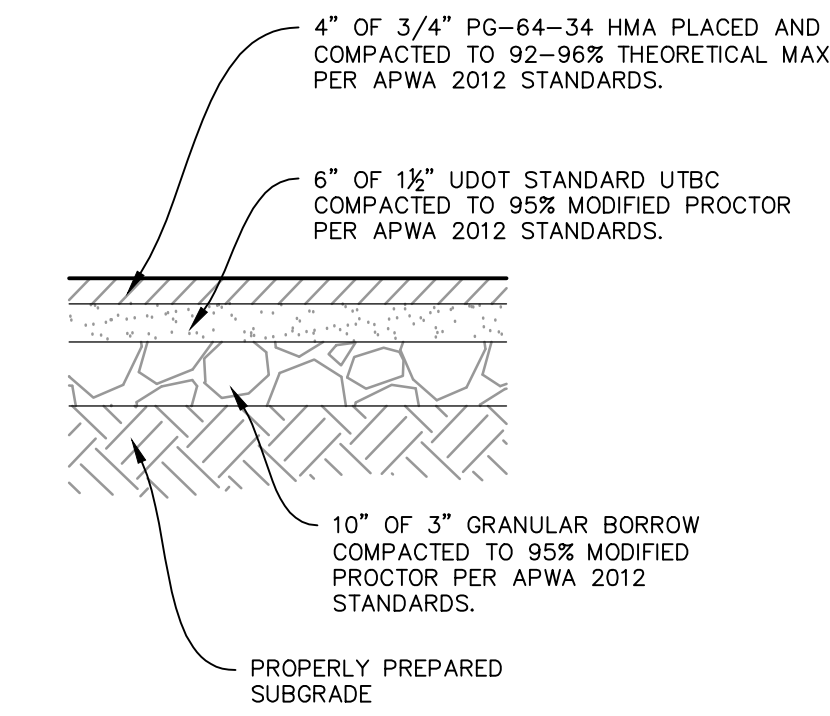
DATE SUBMITTED: 11/21/2013

PREPARED FOR: SUMMIT, LLC

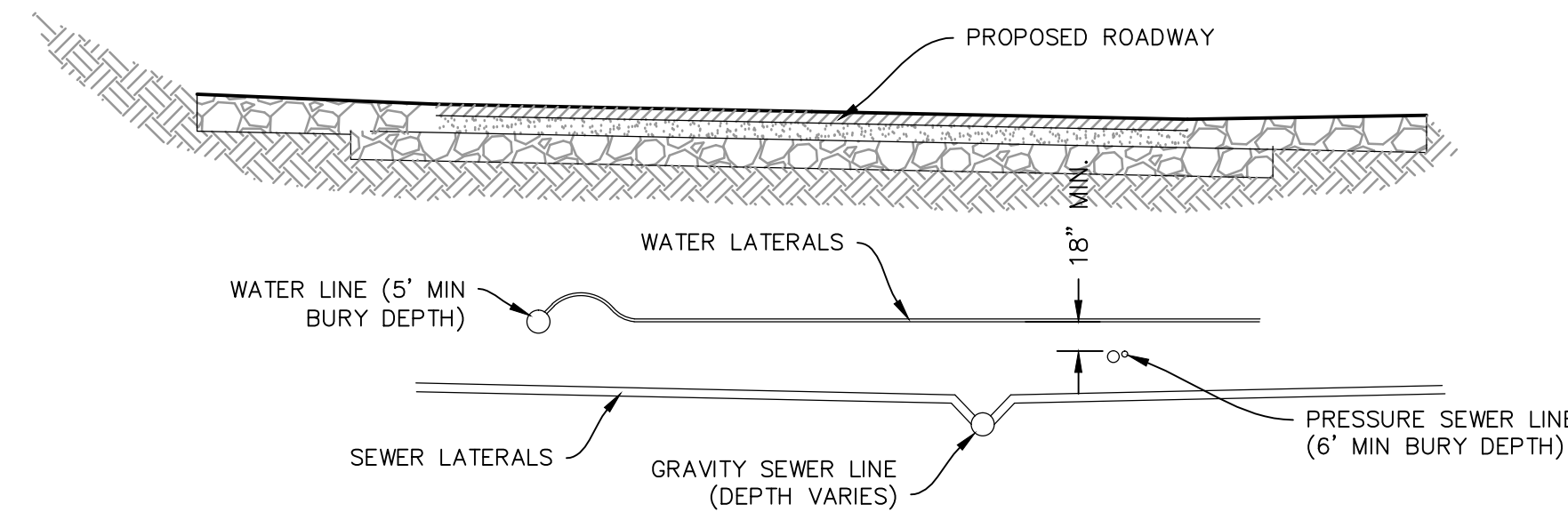
CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.



TYPICAL ROADWAY SECTION A-A
 (50' RIGHT OF WAY SECTION)
 STA: 10+00.00 TO 18+14.86



PAVEMENT SECTION A



WATER AND SEWER SEPARATION DETAIL

NO.	BY	DATE	REVISIONS
1	RWC	8/27/2013	ADDENDUM 1
2	RWC	9/24/2013	UTILITY, GRADING, AND ROCKET REV

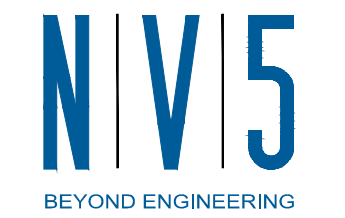
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

DATE SUBMITTED: 11/21/2013

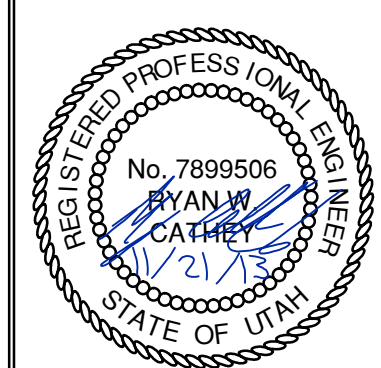
SUMMIT EDEN PHASE 1A

ROADWAY TYPICAL SECTIONS

PREPARED FOR: SUMMIT, LLC



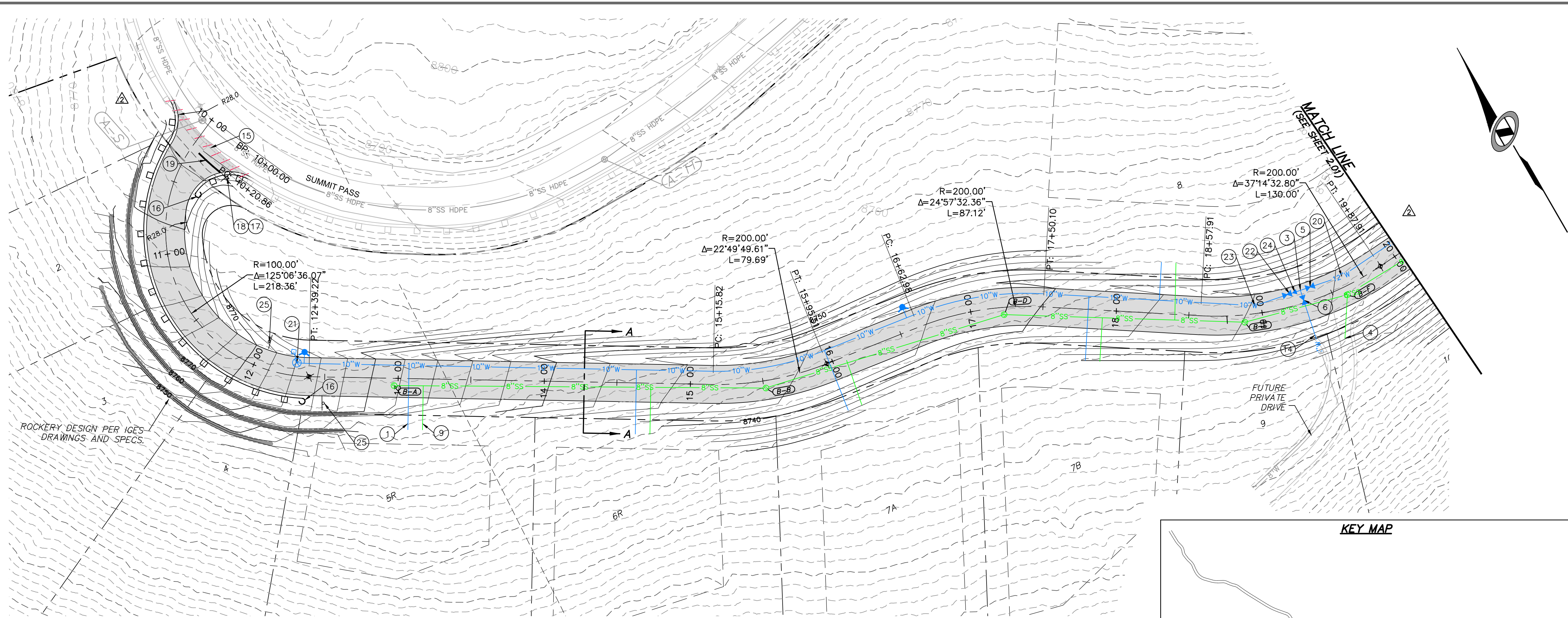
BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 801743.0000 TEL 801743.0000 FAX
 MURRAY, UT 84107
 WWW.NIV5.COM



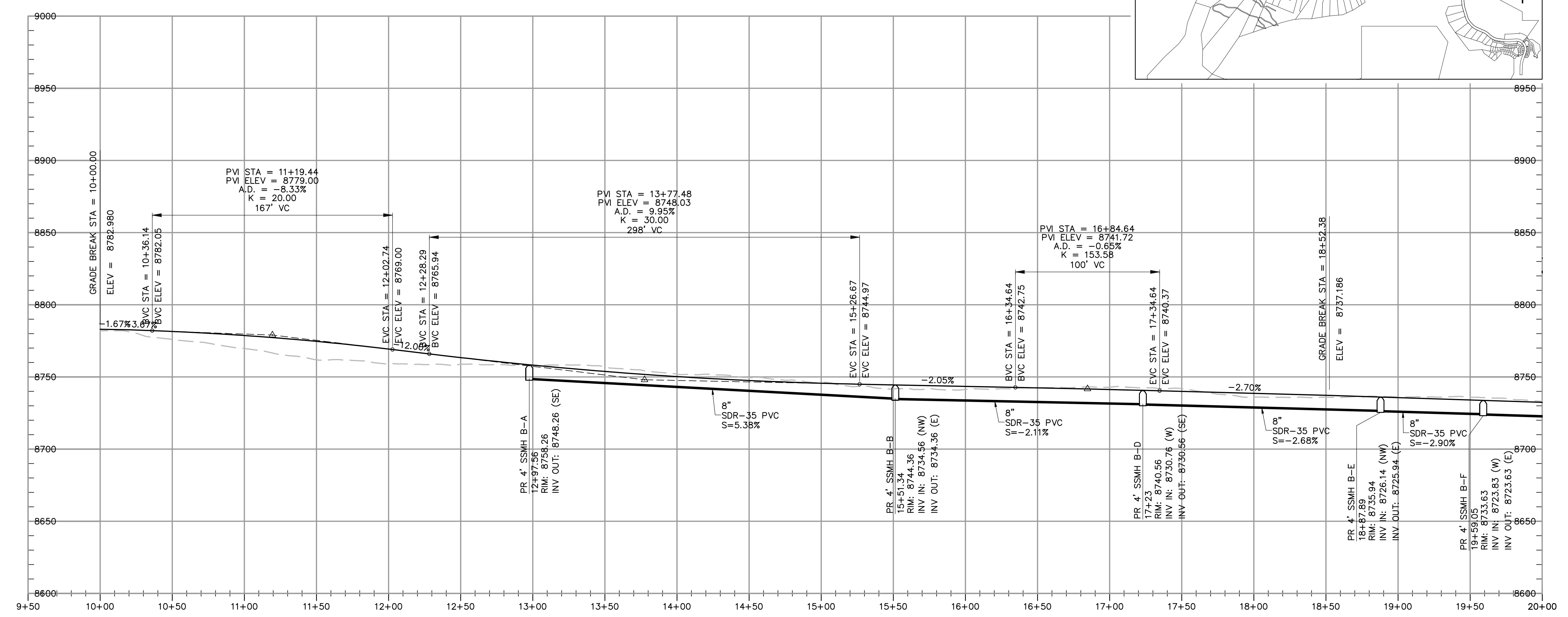
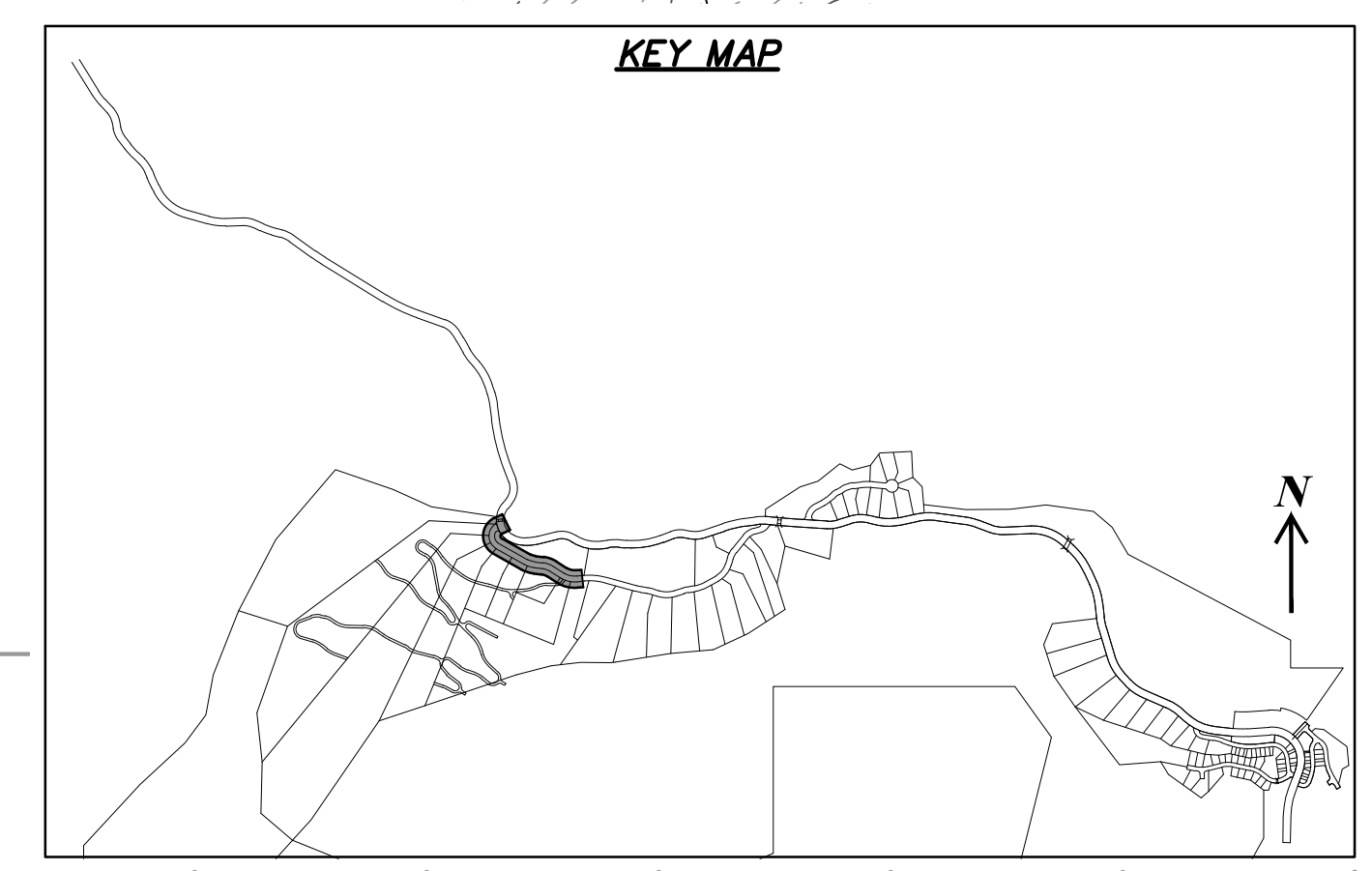
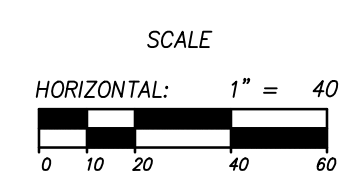
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JOB NUMBER	SLB079306



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HORIZON RUN
 STA: 10+00.00 TO 20+00.00



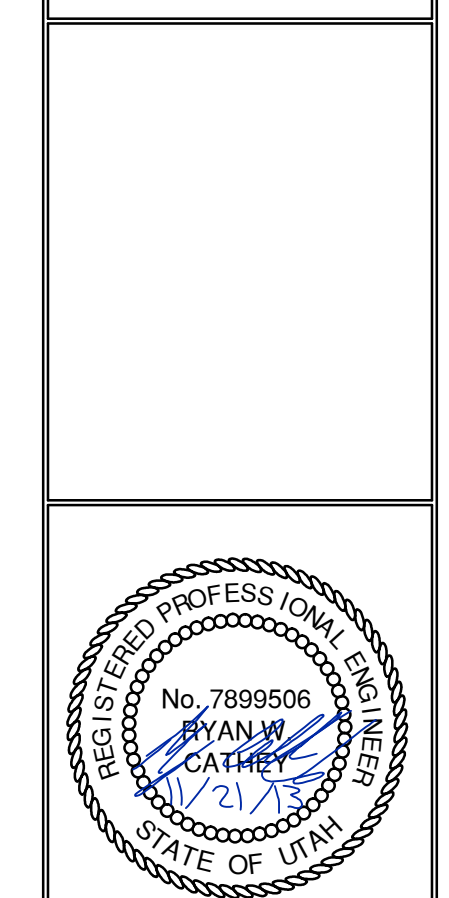
NO.	BY	DATE	REVISIONS
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2	PMC	8/27/2013	UTILITY, GRADING, AND ROCKERY REV

SUMMIT EDEN PHASE 1A
PLAN AND PROFILE
HORIZON RUN

PREPARED FOR: SUMMIT, LLC

DATE SUBMITTED: 11/21/2013

NV5
 BEYOND ENGINEERING
 627 SOUTH STATE STREET, SUITE 200
 801743.0300 TEL. 801743.0300 FAX
 MURRAY, UT 84107
 WWW.NV5.COM



SHEET NUMBER
2.00

SCALE
 VERTICAL: 1" = 40'
 HORIZONTAL: 1" = 40'

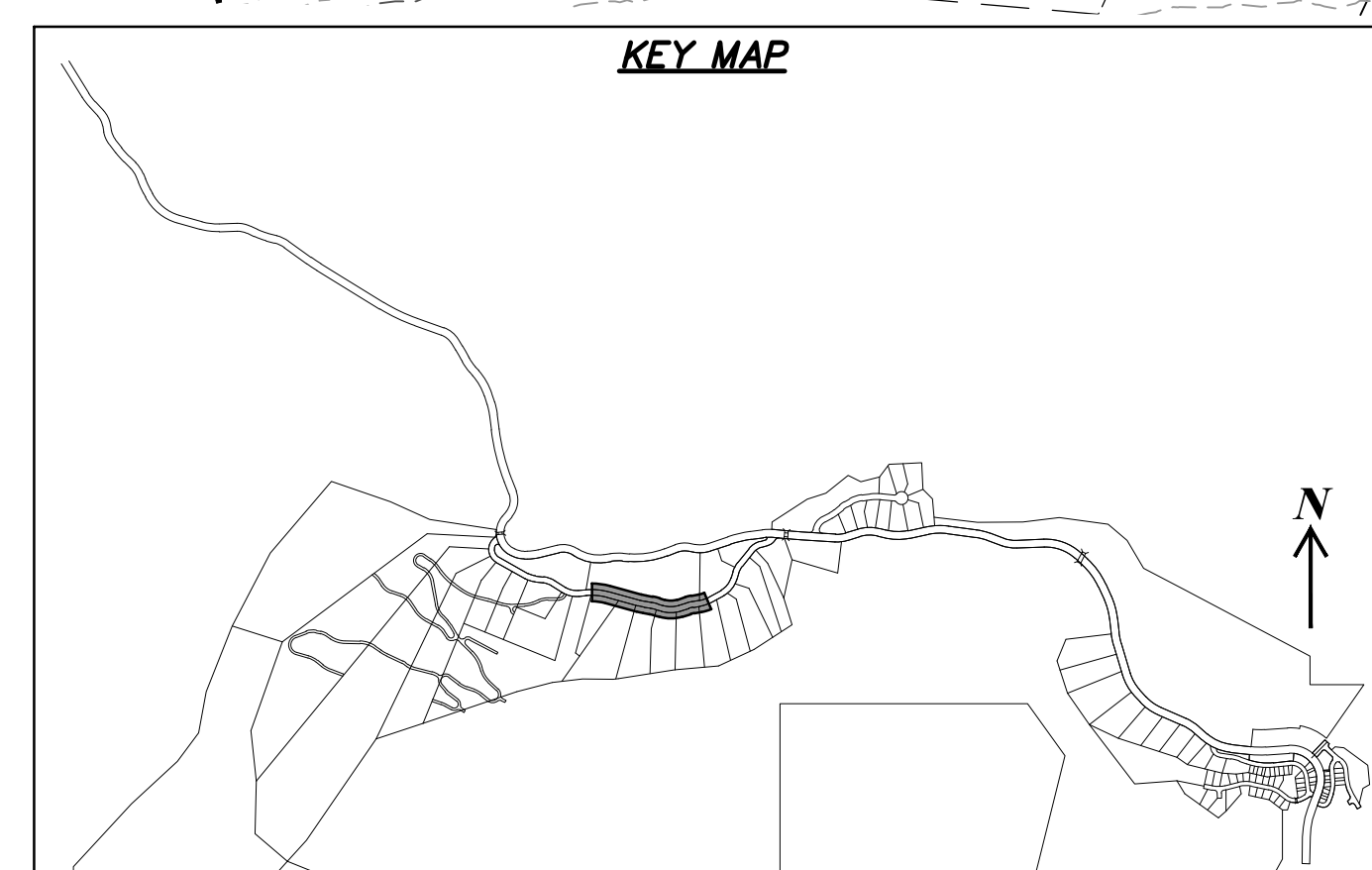
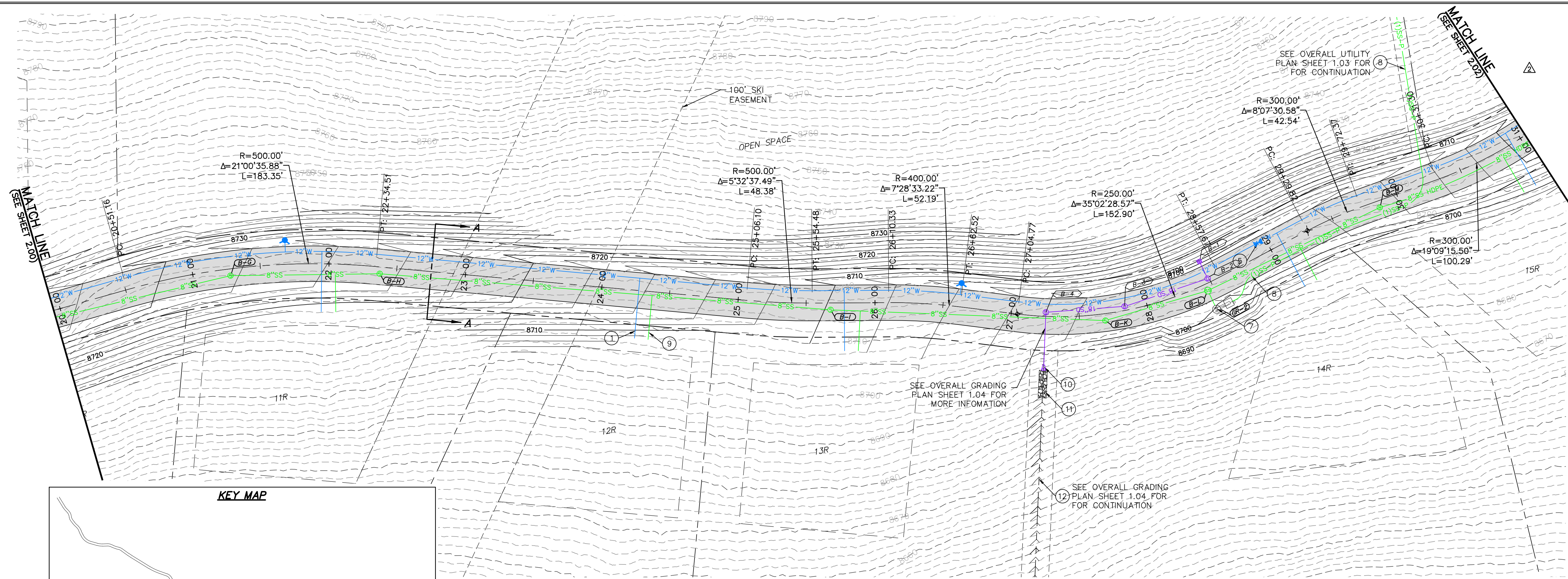
JOB NUMBER
SLB079306

CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans, and must be approved by the preparer of these plans.

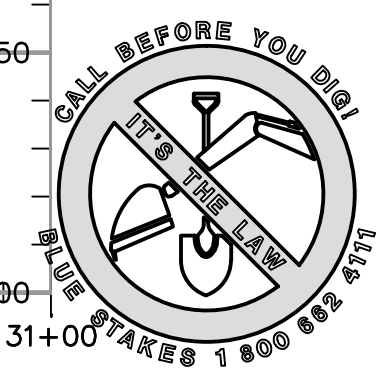
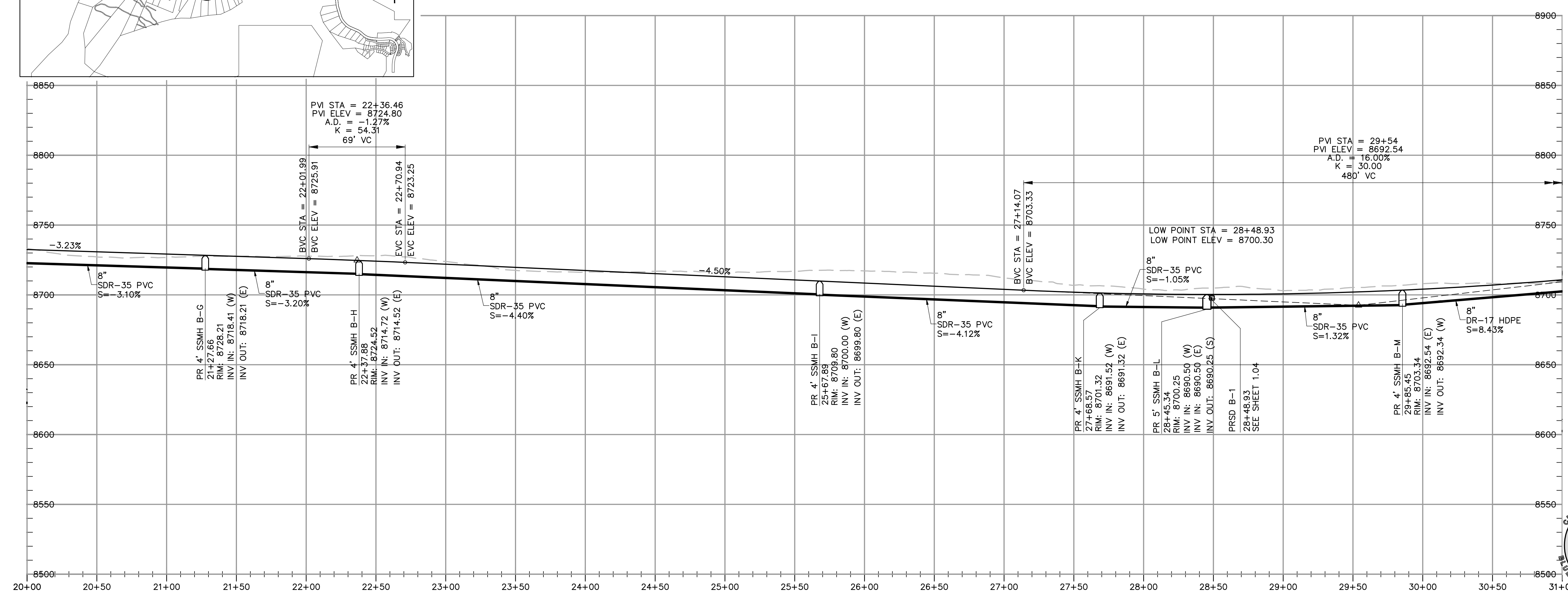
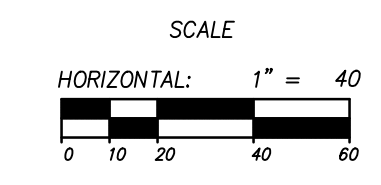
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BOWDEN
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HORIZON RUN
 STA: 20+00.00 TO 31+00.00



NO.	BY	DATE	REVISIONS
1	PMC	8/27/2013	ADDENDUM 1
2	PMC	9/24/2013	UTILITY, GRADING, AND SLOPEY REV

CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

SUMMIT EDEN PHASE 1A
PLAN AND PROFILE
HORIZON RUN

PREPARED FOR: SUMMIT, LLC
 DATE SUBMITTED: 11/21/2013

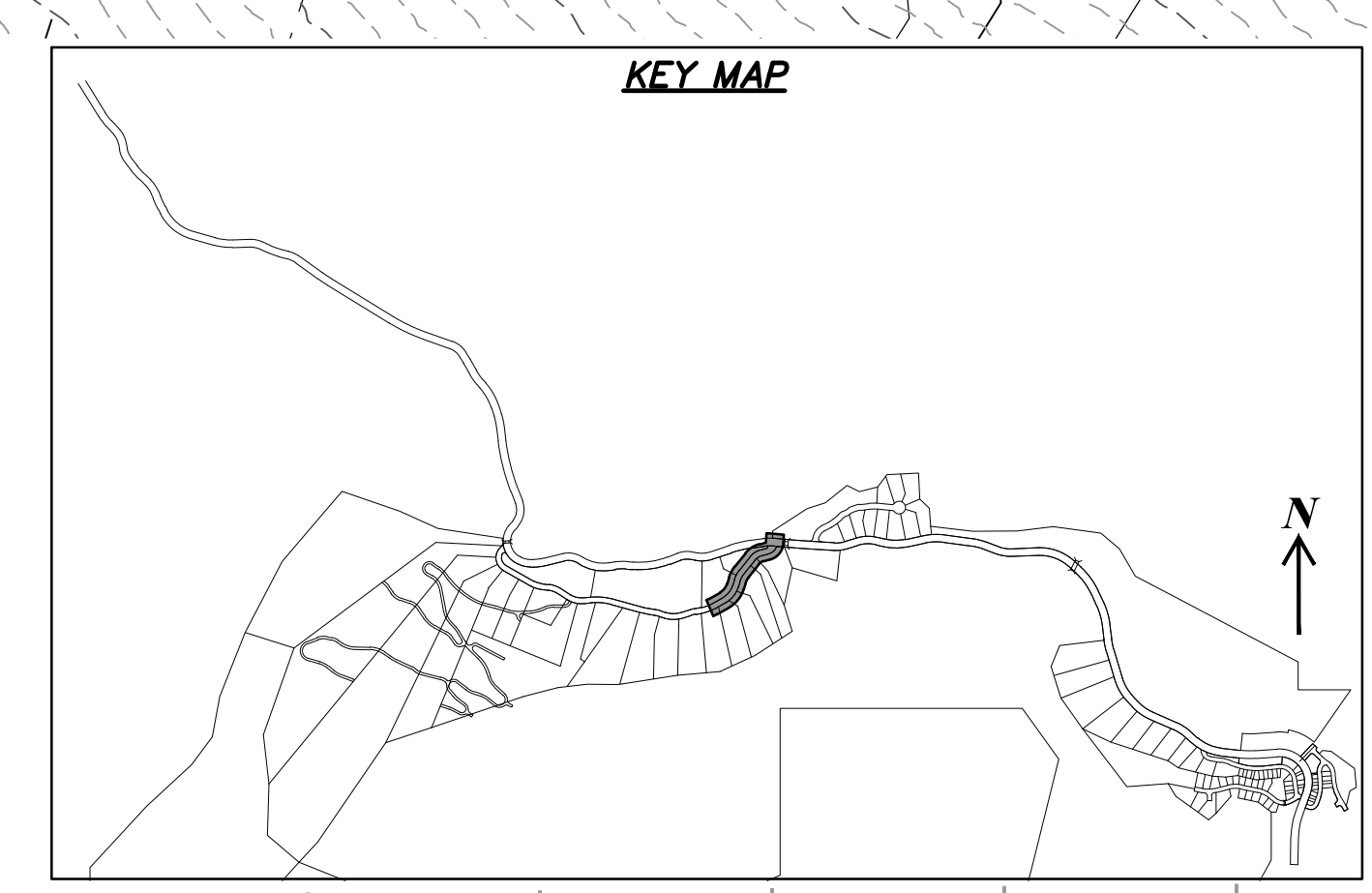
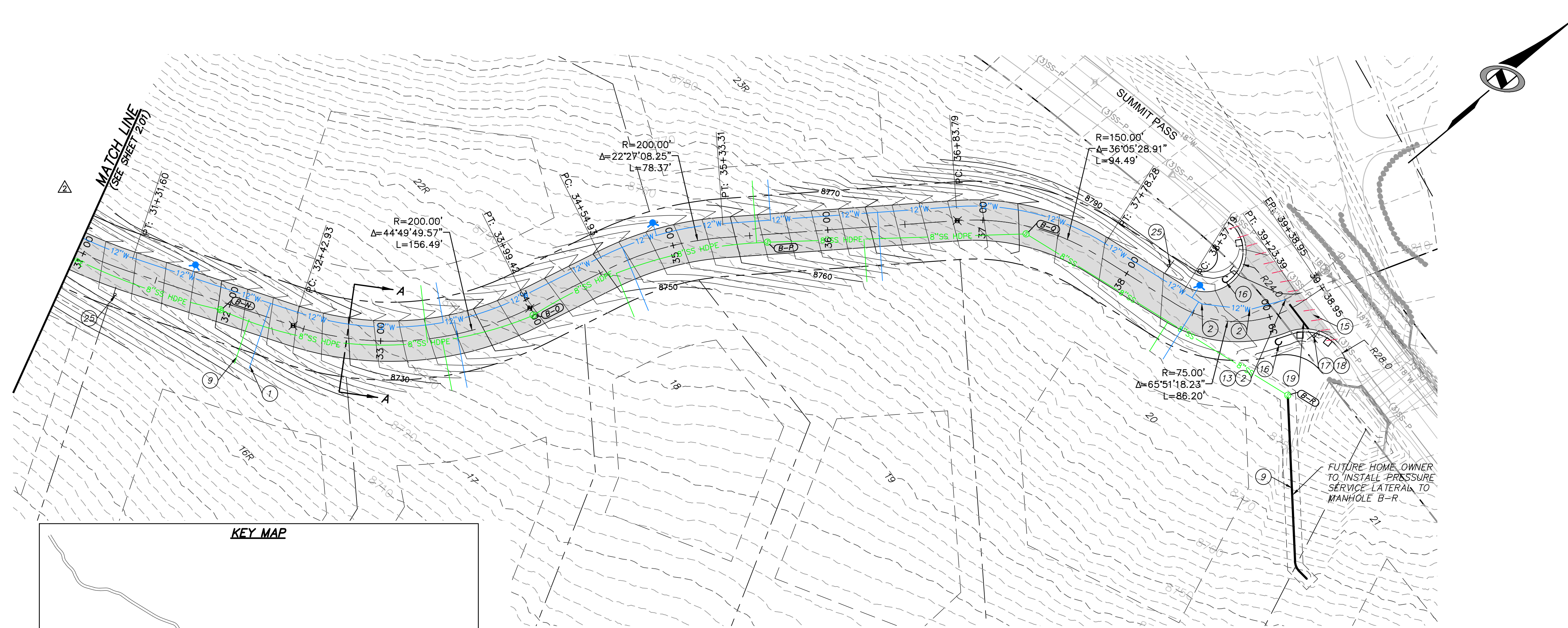
NV5
 BEYOND ENGINEERING
 6217 SOUTH STATE STREET, SUITE 200
 801743.0000 TEL. 801743.0000 FAX
 MURRAY, UT 84107
 WWW.NV5.COM

REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 RYAN W. CATHEY
 11/21/13
 STATE OF UTAH

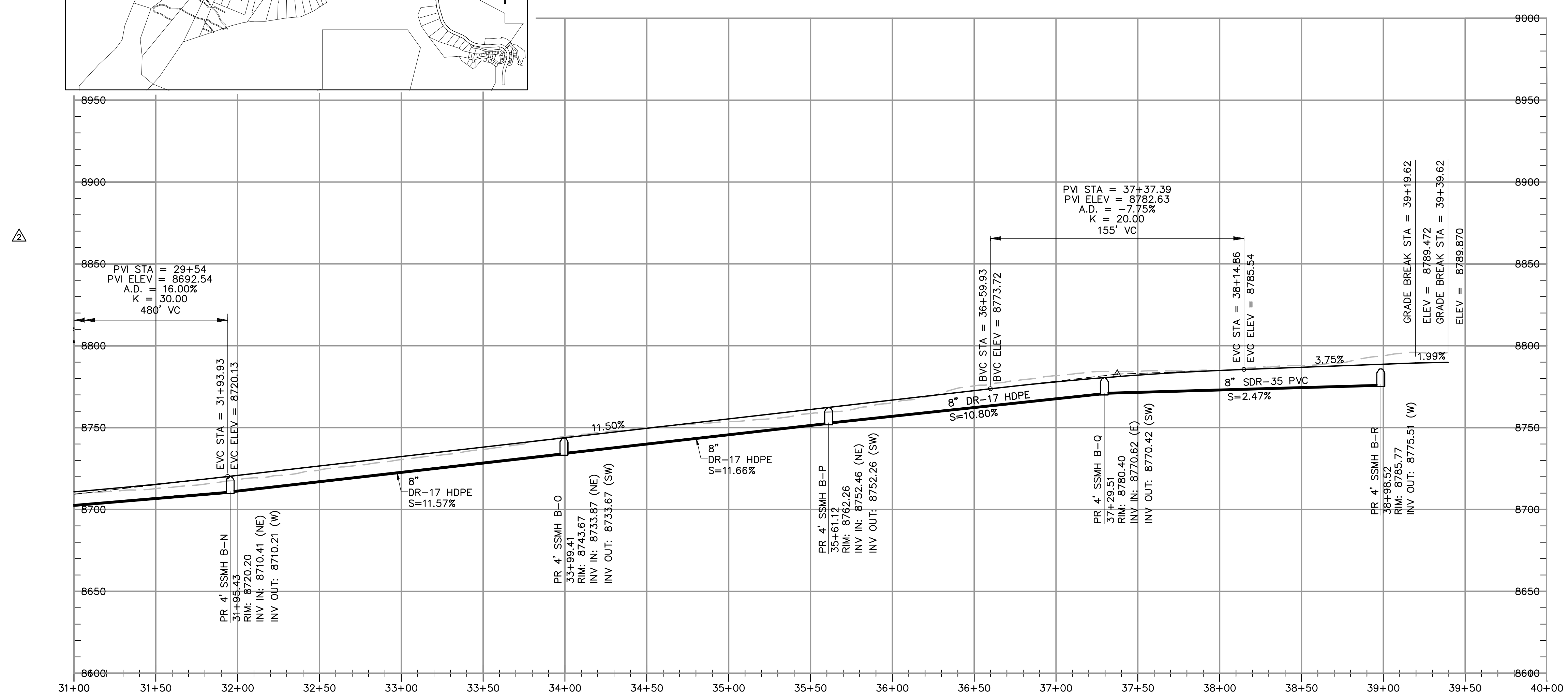
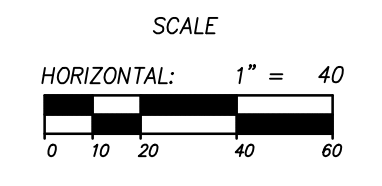
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2.01

SCALE
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JOB NUMBER
SLB079306



HORIZON RUN
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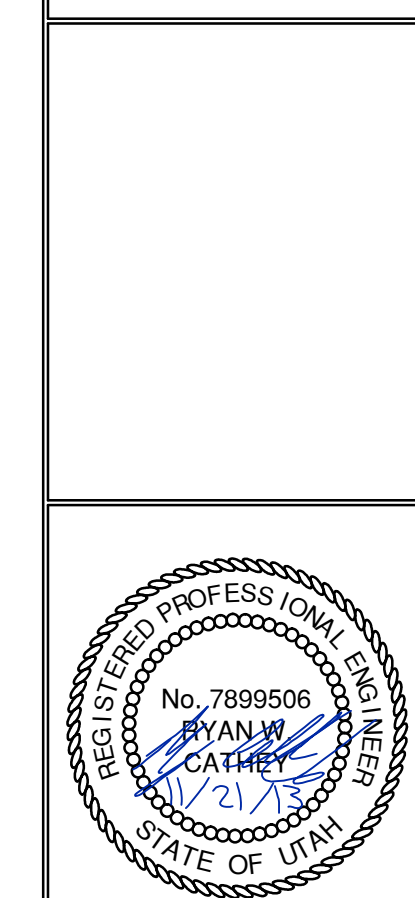
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2	RMC	8/27/2013	UTILITY, GRADING, AND ROCKERY REV.

SUMMIT EDEN PHASE 1A
PLAN AND PROFILE
HORIZON RUN

PREPARED FOR: SUMMIT, LLC

DATE SUBMITTED: 11/21/2013

NV5
 BEYOND ENGINEERING
 6217 SOUTH STATE STREET, SUITE 200
 801743.0000 TEL 801743.0000 FAX
 MURRAY, UT 84107
 WWW.NV5.COM

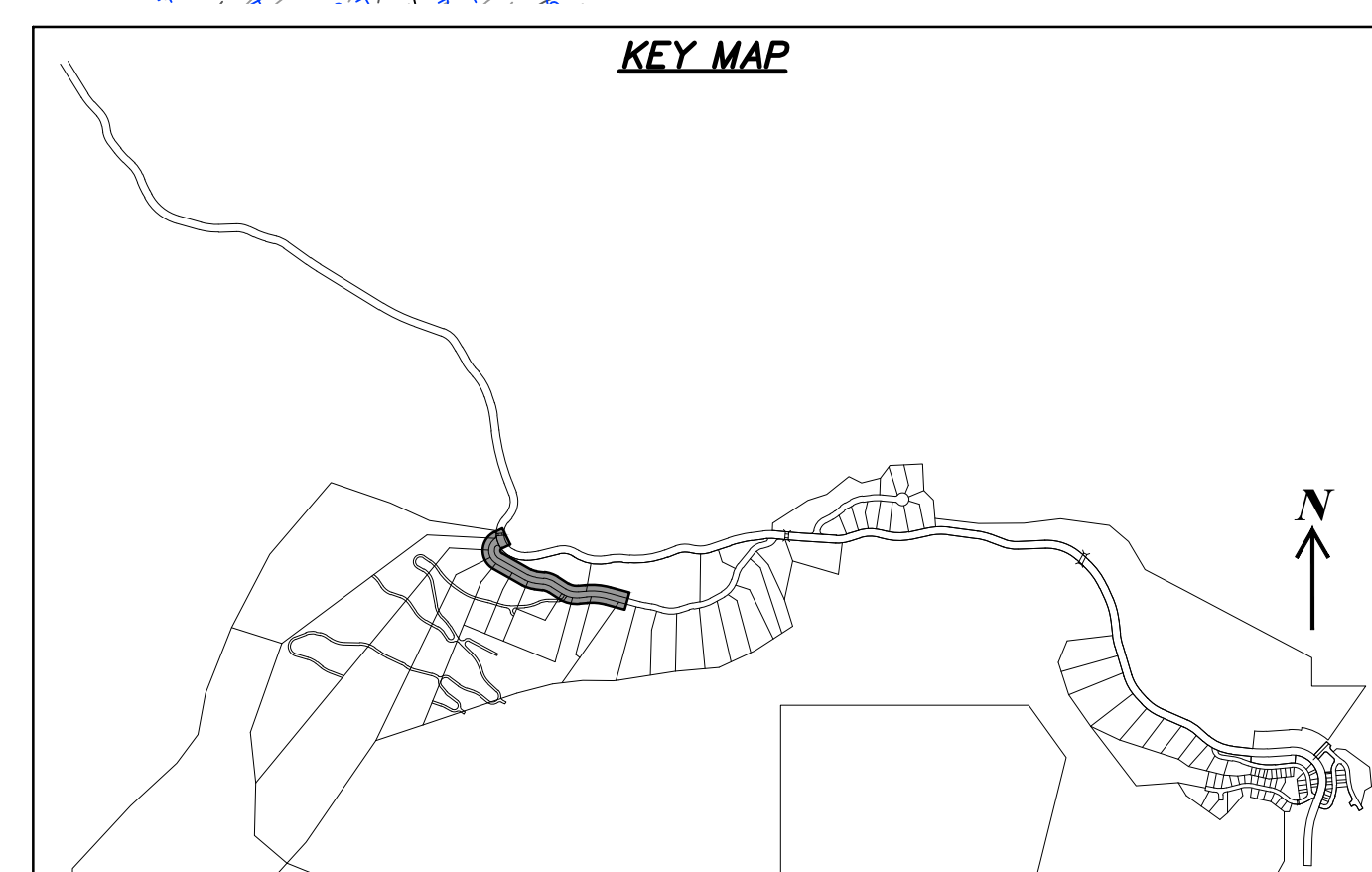
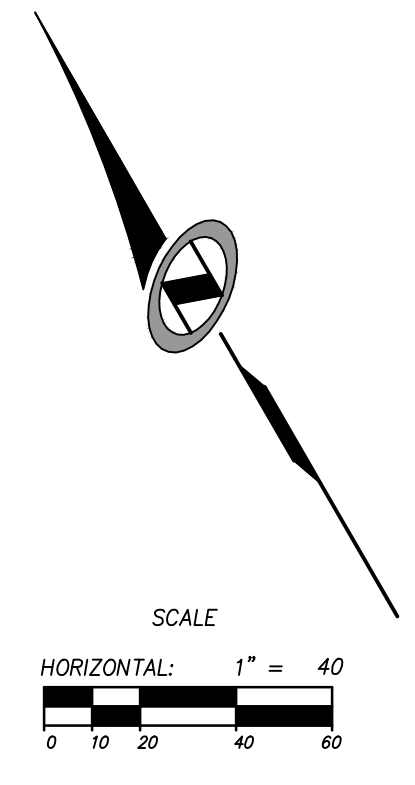
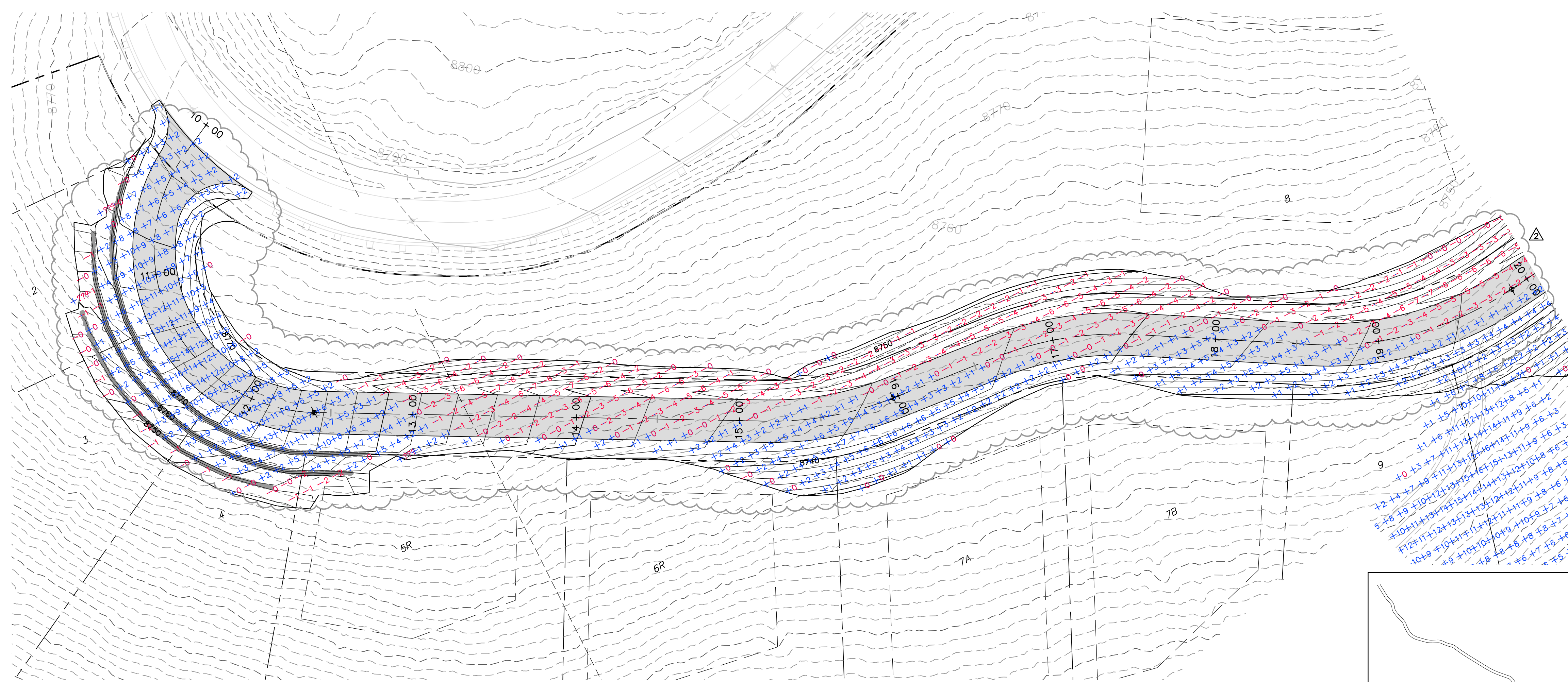


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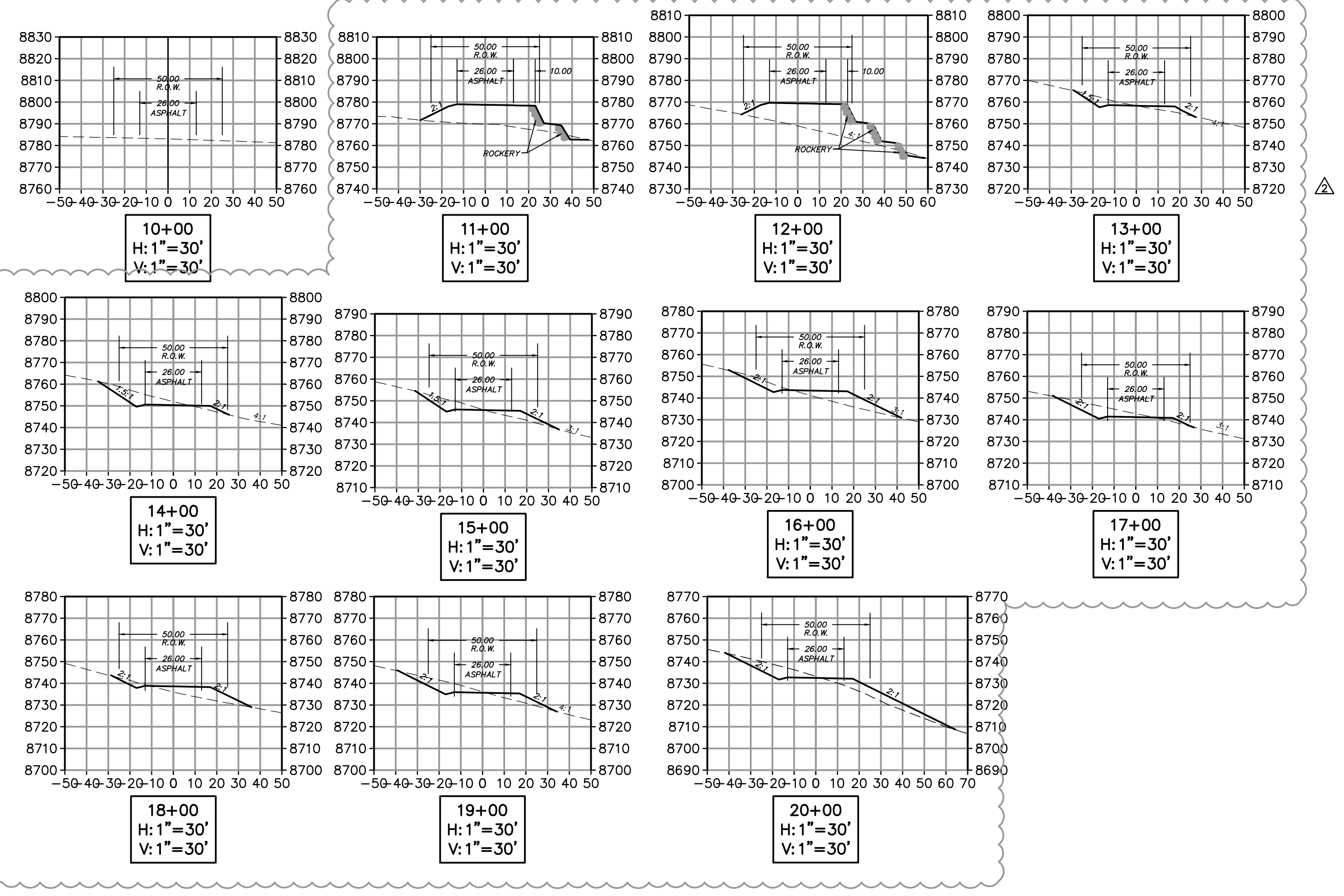
SCALE
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 HORIZONTAL: 1" = 40'

JOB NUMBER
SLB079306

CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.



HORIZON RUN
 STA: 10+00.00 TO 20+00.00



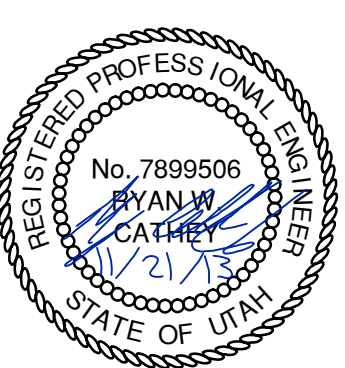
NO.	BY	DATE	REVISIONS
1	RWC	8/27/2013	ADDENDUM 1
2	RWC	9/24/2013	UTILITY, GRADING, AND ROCKERY REV.

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DATE SUBMITTED: 11/21/2013

SUMMIT EDEN PHASE 1A
EARTHWORK AND SECTIONS
HORIZON RUN

PREPARED FOR: SUMMIT, LLC



SHEET NUMBER
3.00

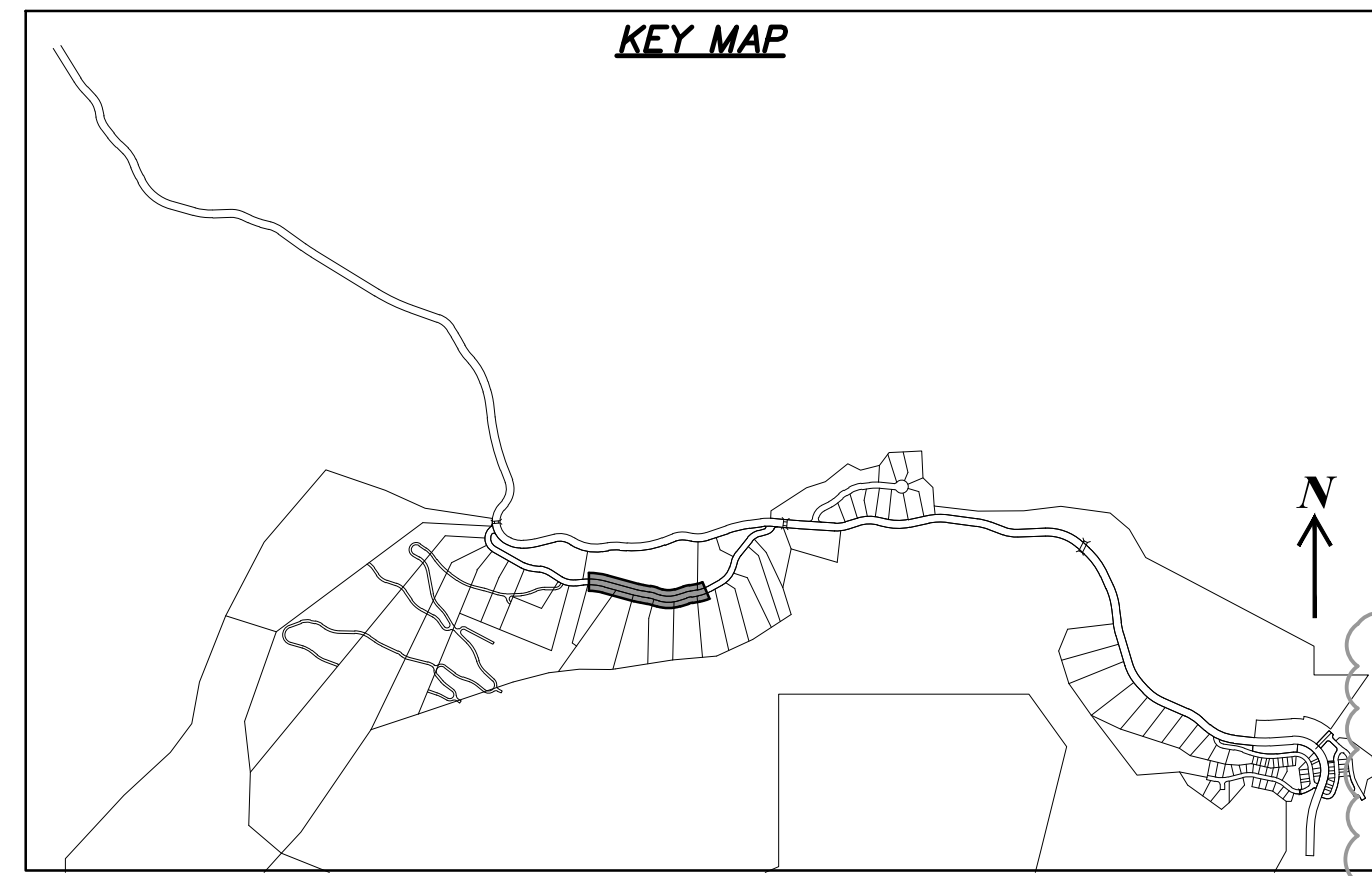
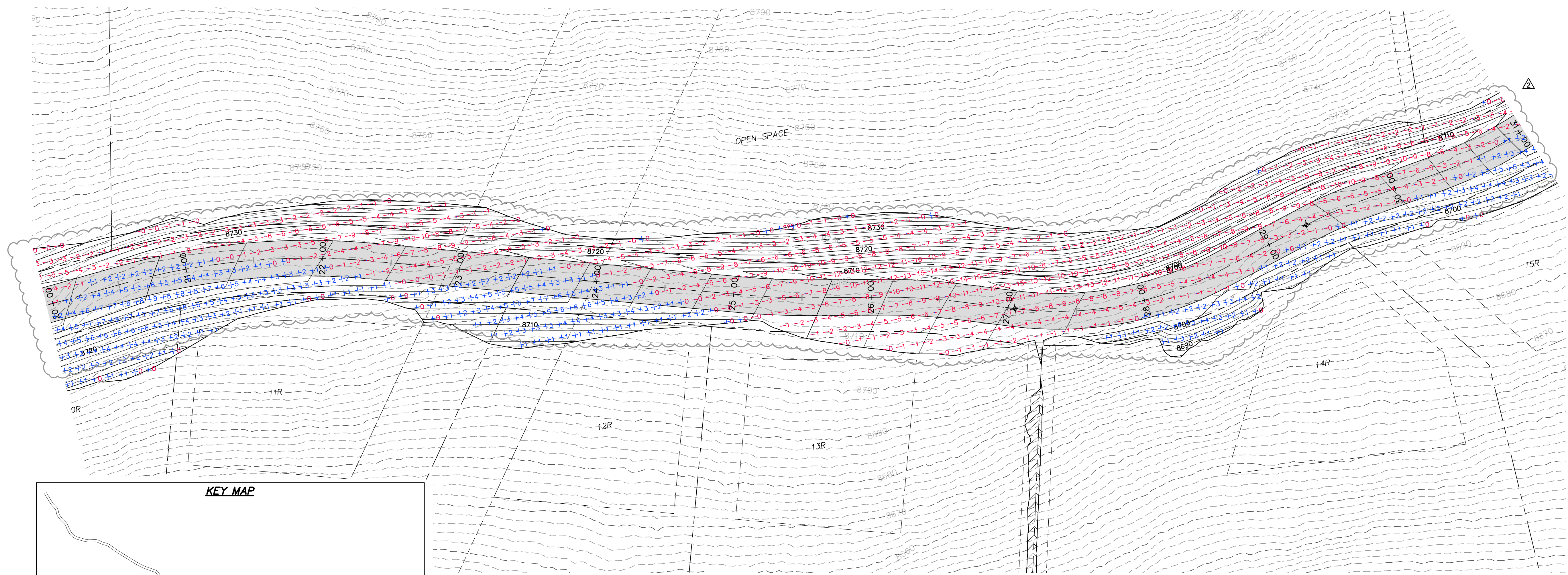
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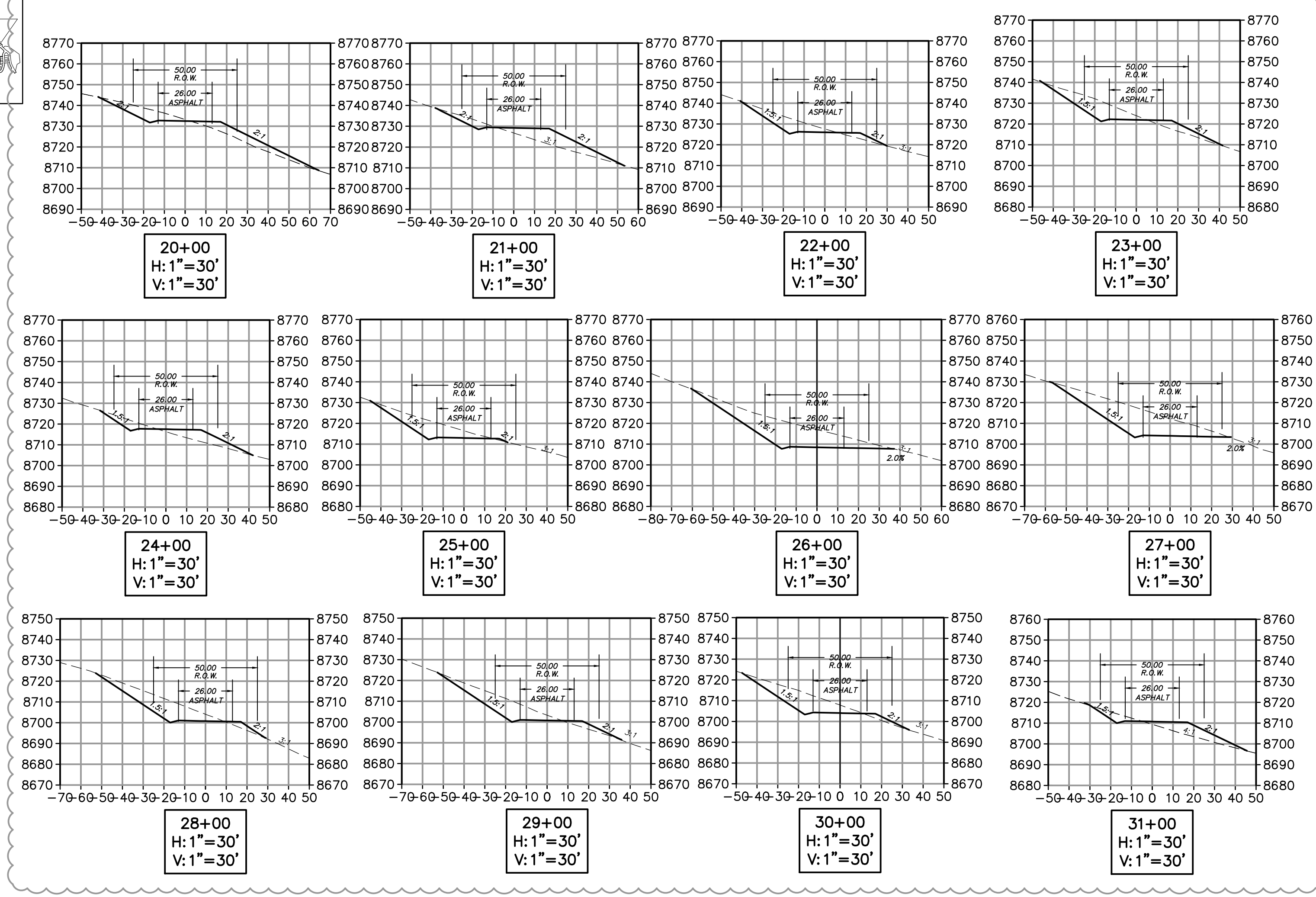
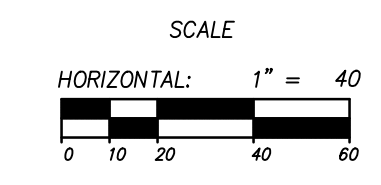


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BROWDEN
 XREFS:



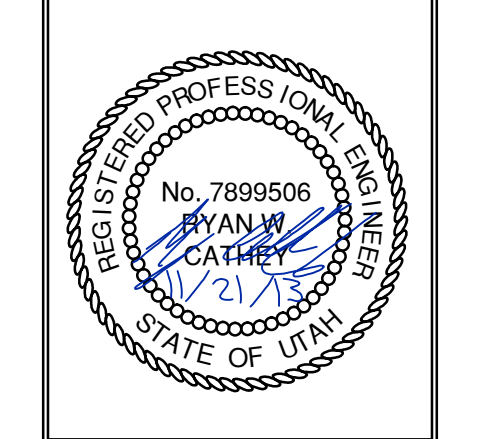
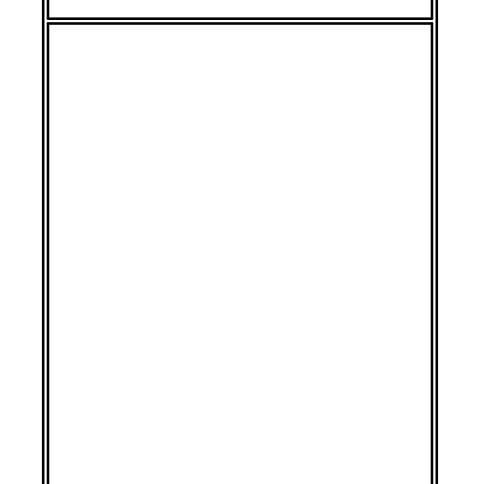
HORIZON RUN
 STA: 20+00.00 TO 31+00.00



NO.	BY	DATE	REVISIONS
1	PMC	8/27/2013	ADDITIONAL UTILITY, GRADING, AND SOCKET REV.
2	PMC	8/27/2013	

SUMMIT EDEN PHASE 1A
EARTHWORK AND SECTIONS
HORIZON RUN

PREPARED FOR: SUMMIT, LLC
 DATE SUBMITTED: 11/21/2013



SHEET NUMBER
3.01

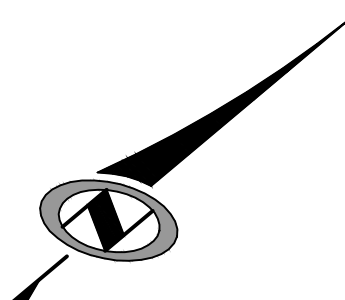
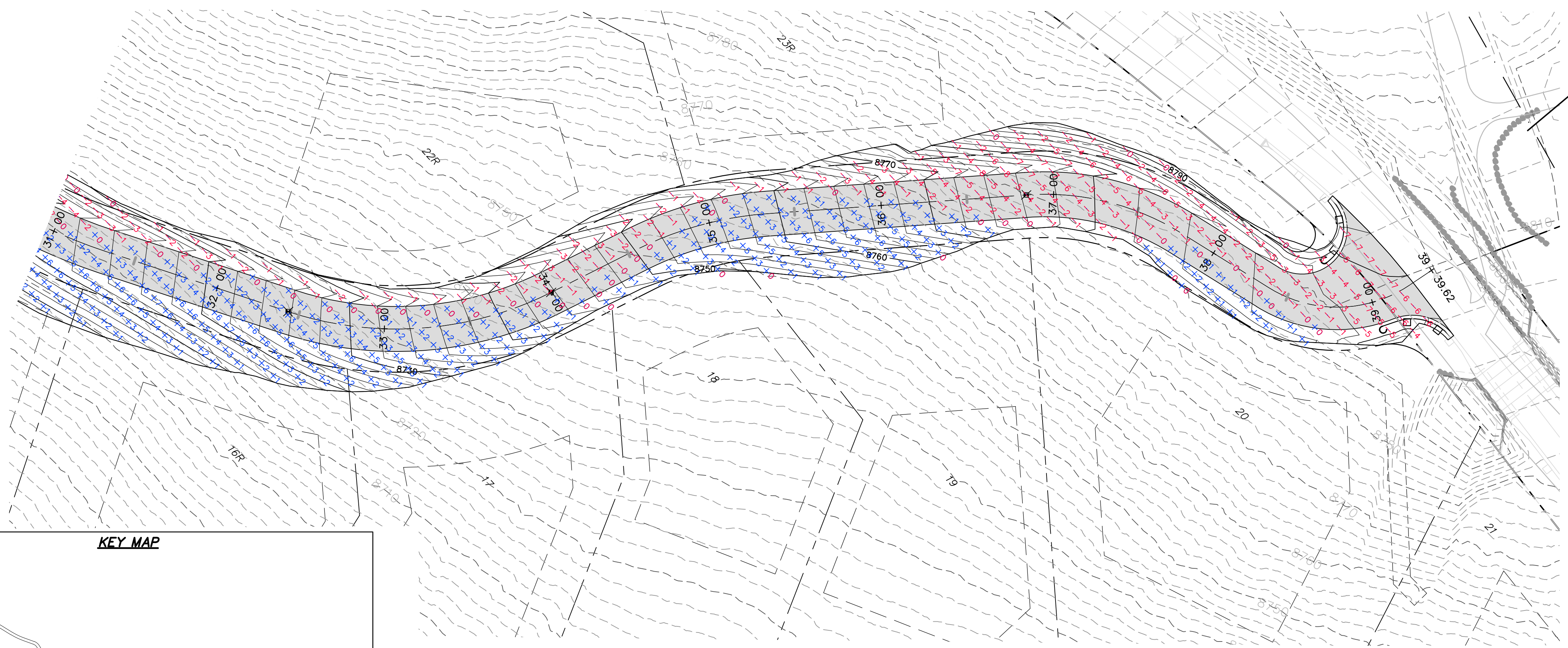
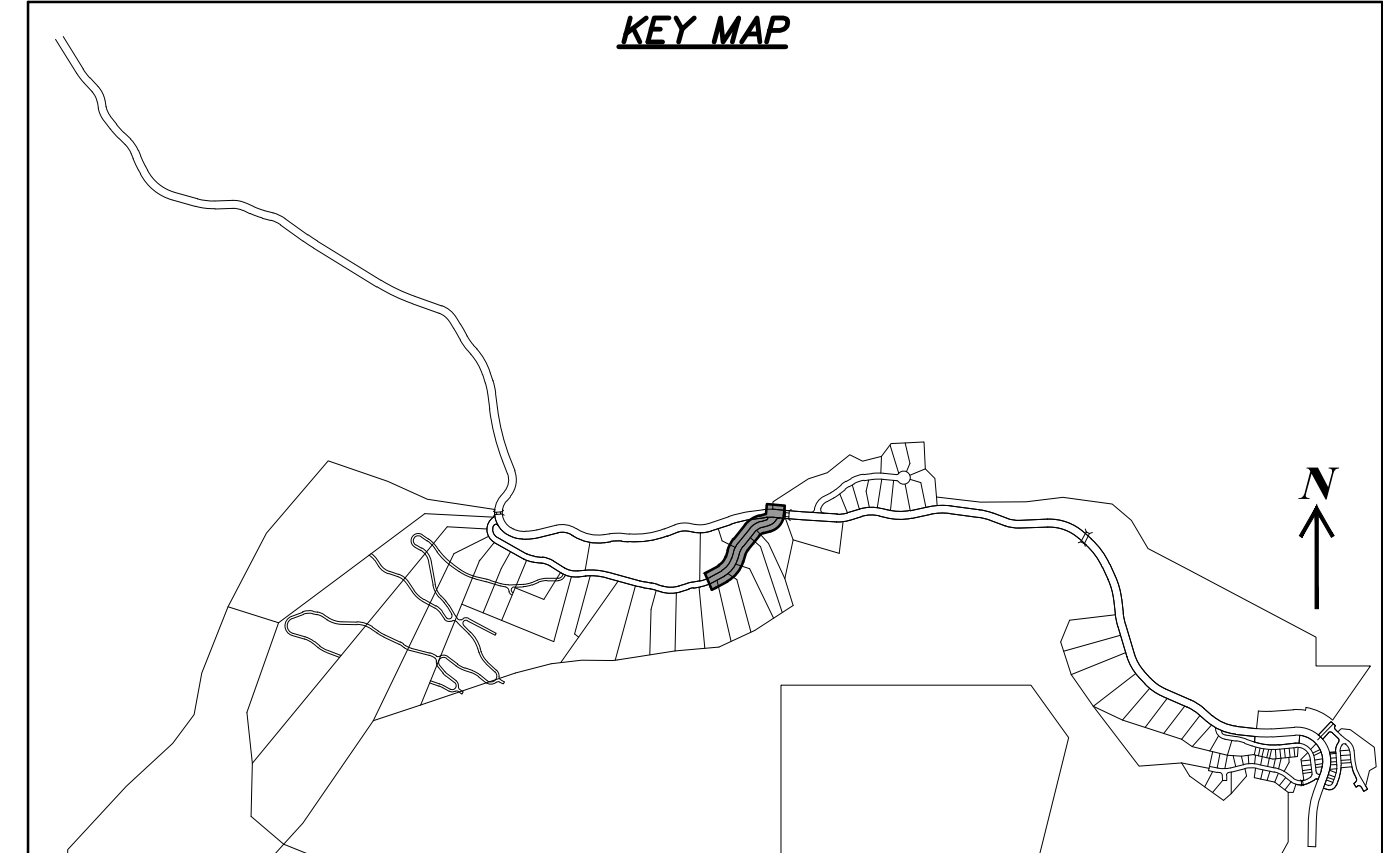
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JOB NUMBER
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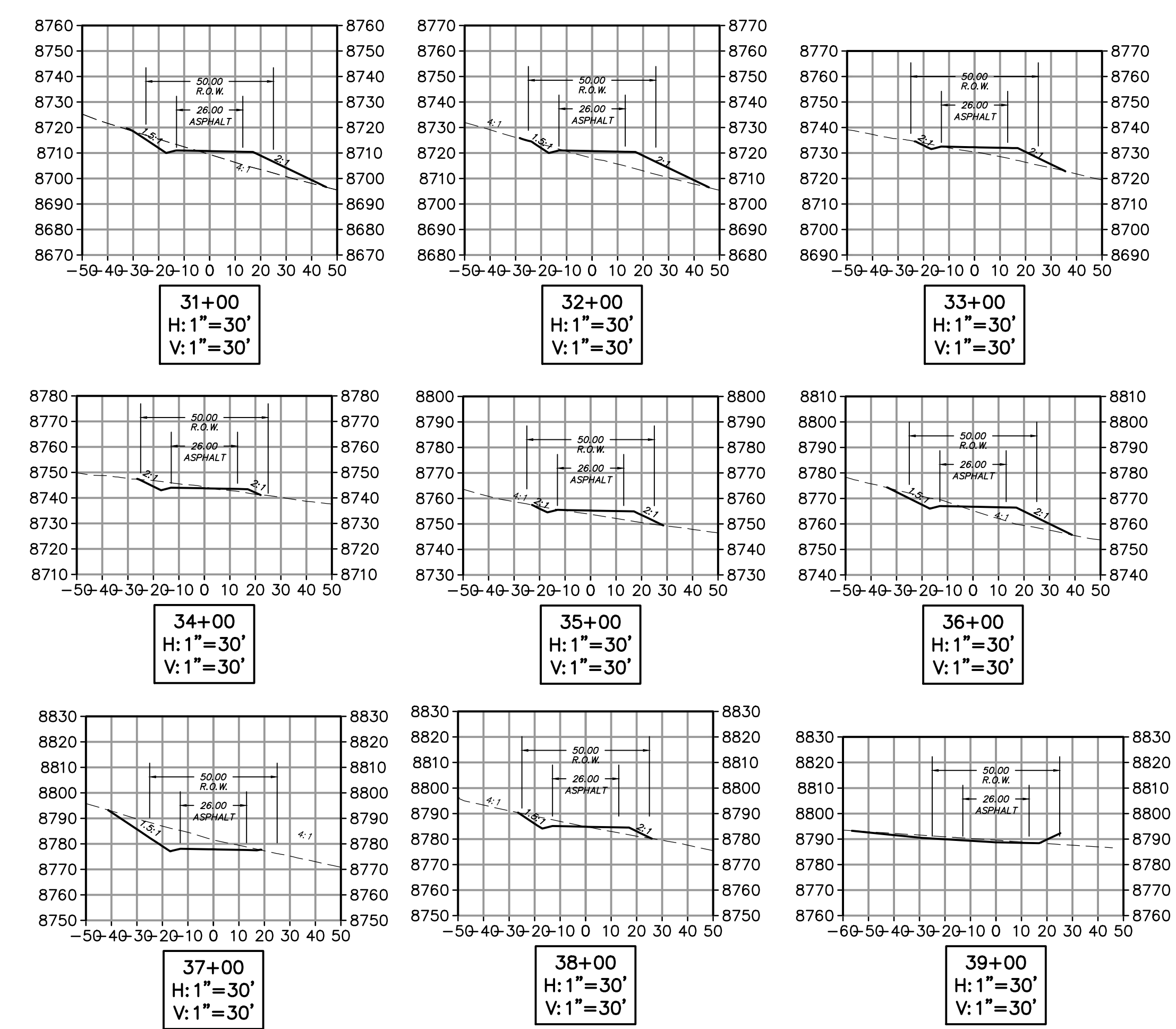
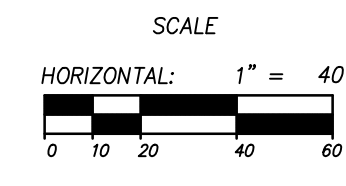


CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans, and must be approved by the preparer of these plans.

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HORIZON RUN
 STA: 31+00.00 TO 39+39.62



SUMMIT EDEN PHASE 1A
EARTHWORK AND SECTIONS
HORIZON RUN

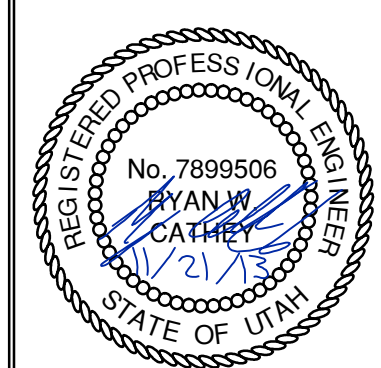
NO.	BY	DATE	REVISIONS
1	RWC	8/27/2013	ADD/NOV 1
2	RWC	8/27/2013	UTILITY, GRADING, AND ROCKERY REV

CAUTION
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DATE SUBMITTED: 11/21/2013

PREPARED FOR: SUMMIT, LLC

NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 MURRAY, UT 84107
 801.743.0300 TEL. 801.743.0300 FAX
 WWW.NV5.COM



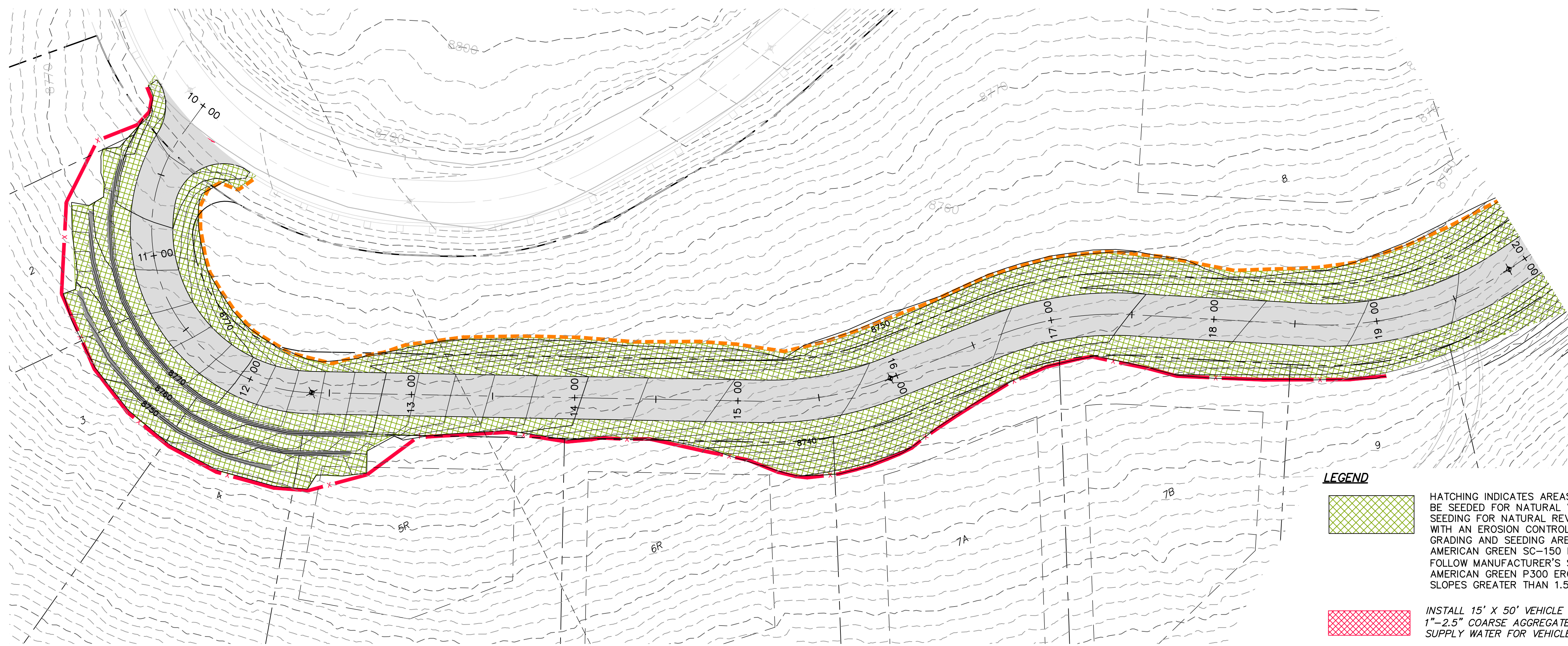
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3.02

SCALE
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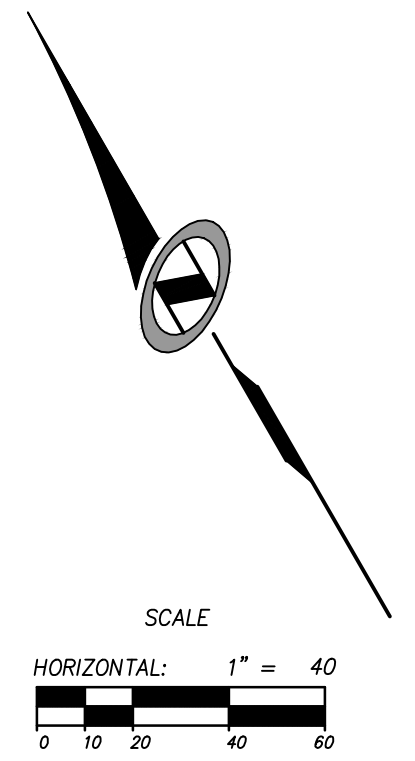
JOB NUMBER
SLB079306



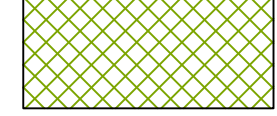
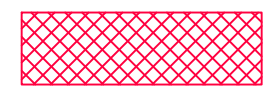
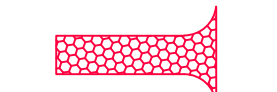



BOWDEN
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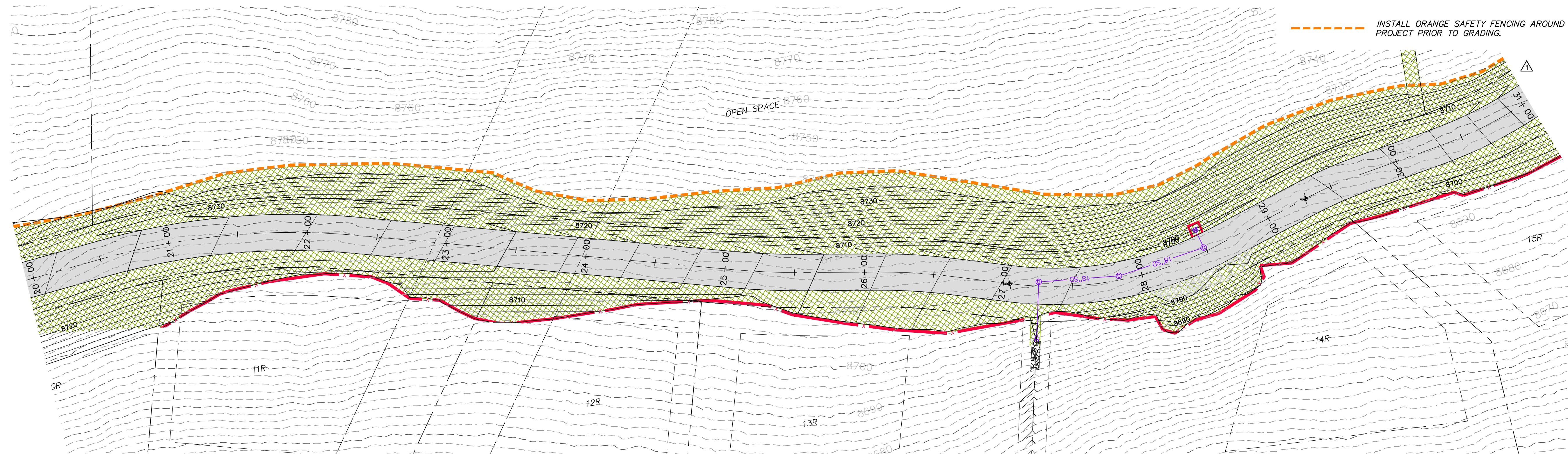


HORIZON RUN
 STA: 10+00.00 TO 20+00.00

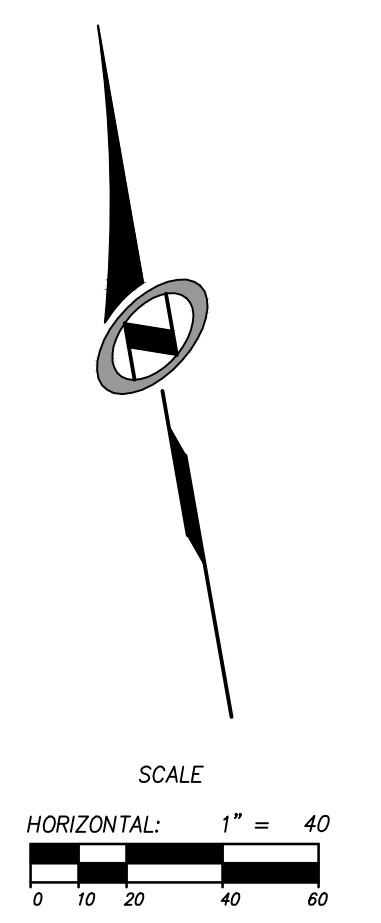


LEGEND

-  HATCHING INDICATES AREAS TO RECEIVE 4" TOPSOIL AND TO BE SEED FOR NATURAL REVEGETATION. AREAS RECEIVING SEEDING FOR NATURAL REVEGETATION MUST BE COVERED WITH AN EROSION CONTROL BLANKET AFTER THE FINAL GRADING AND SEEDING ARE FINISHED. INSTALL NORTH AMERICAN GREEN SC-150 BLANKET OR APPROVED EQUAL. FOLLOW MANUFACTURER'S SPECIFICATIONS. INSTALL NORTH AMERICAN GREEN P300 EROSION CONTROL BLANKET ON ALL SLOPES GREATER THAN 1.5:1.
-  INSTALL 15' X 50' VEHICLE WASH DOWN AREA WITH 1"-2.5" COARSE AGGREGATE PLACED A MINIMUM 8" THICK. SUPPLY WATER FOR VEHICLE WASH DOWN.
-  STABILIZED CONSTRUCTION ENTRANCE FOR SITE INGRESS/EGRESS. IF ALTERNATE ACCESS POINTS ARE APPROVED BY OWNER, ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES WILL BE REQUIRED.
-  INSTALL INLET PROTECTION IN FORM OF CONCRETE BLOCKS / FILTER CLOTH / GRAVEL OR SILT SACK AT EXISTING AND PROPOSED CATCH BASINS AS SHOWN ON PLAN.
-  INSTALL SILT FENCE ALONG DOWN GRADIENT LIMITS OF DISTURBANCE AS SHOWN ON PLAN.
-  INSTALL ORANGE SAFETY FENCING AROUND OUTER LIMITS OF PROJECT PRIOR TO GRADING.



HORIZON RUN
 STA: 20+00.00 TO 31+00.00



NO.	BY	DATE	REVISIONS
1	RWC	8/27/2013	ADDendum 1
2	RWC	9/24/2013	UTILITY, GRADING, AND SOBBY REV

The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

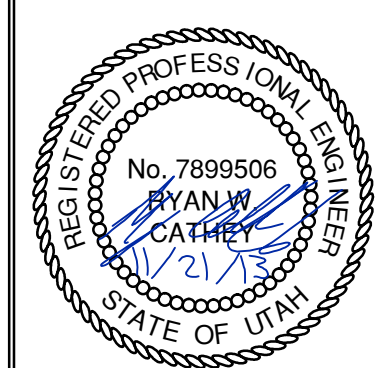
DATE SUBMITTED: 11/21/2013

PREPARED FOR: SUMMIT, LLC

SUMMIT EDEN PHASE 1A
EROSION CONTROL PLAN
HORIZON RUN

NV5
 BEYOND ENGINEERING

5217 SOUTH STATE STREET, SUITE 200
 801743.000 TEL. 801743.000 FAX
 MURRAY, UT 84107
 WWW.NV5.COM



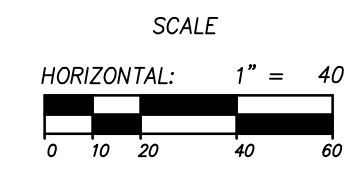
SHEET NUMBER
4.00

SCALE
 VERTICAL: 1" = 40'
 HORIZONTAL: 1" = 40'

JOB NUMBER
SLB079306



HORIZON RUN
 STA: 31+00.00 TO 39+39.62



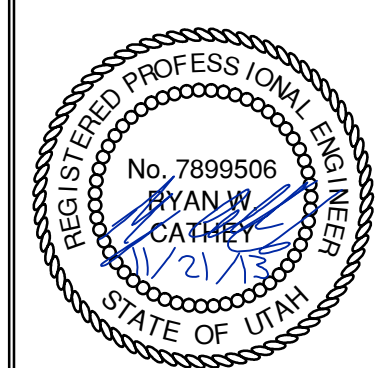
NO.	BY	DATE	REVISIONS
1	RWC	8/27/2013	ADDITIONAL UTILITY, GRADING, AND ROCKERY REV
2	RWC	8/27/2013	

CAUTION
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SUMMIT EDEN PHASE 1A
EROSION CONTROL PLAN
HORIZON RUN

PREPARED FOR: SUMMIT, LLC DATE SUBMITTED: 11/21/2013

NV5
 BEYOND ENGINEERING
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 MURRAY, UT 84107
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 WWW.NV5.COM



SHEET NUMBER	4.01
SCALE	VERTICAL: 1" = 40' HORIZONTAL: 1" = 40'
JOB NUMBER	SLB079306

3' X 3' LID
WT. 990 #

3' X 3' RISER

3' X 3' BASE

HEIGHT	WEIGHTS	
	BASE	RISER
6"		550 #
1'		1,099 #
2'		2,198 #
3'	3,171 #	3,297 #
4'	4,796 #	4,207 #
5'	5,896 #	5,259 #
6'	6,994 #	7,894 #

NOTES:
 1. Vault design complies with ASTM C-857 and C-858 with less than 2" of earth cover and an AASHTO HS-20 loading.
 2. Lifting insert type and location may change without notice.

Oldcastle Precast
 801 West 12th Street, Ogden, Utah 84404
 Phone: 801-399-1171 Fax: 801-392-7849

3' x 3' Basin
 FILE NAME: 210D1C3X3CB000
 ISSUE DATE: 1/08
 www.oldcastleprecast.com

3' x 3' Catch Basin Bases, Risers and lid
 Copyright © 2008

3'x3' CATCH BASIN LID ELEVATION VIEW

3'x3' CATCH BASIN LID PLAN VIEW 31" OPENING

3'x3' CATCH BASIN LID PLAN VIEW 2'x3' OPENING CENTER/OFFSET

3'x3' CATCH BASIN RISER ELEVATION VIEW

3'x3' CATCH BASIN BASE ELEVATION VIEW

3'x3' CATCH BASIN BASE / RISER PLAN VIEW

JOINT DETAIL

SEE KNOCKOUT TABLE

KNOCKOUT	
BASE HEIGHT	DIA.
3'	30"
4'	36"
5'	36"
6'	36"

KNOCKOUTS ARE 4" DEEP

Oldcastle Precast
 801 West 12th Street, Ogden, Utah 84404
 Phone: 801-399-1171 Fax: 801-392-7849

3' x 3' Basin
 FILE NAME: 210D1C3X3CB000
 ISSUE DATE: 1/08
 www.oldcastleprecast.com

3' x 3' Catch Basin Bases, risers and lid
 Copyright © 2008

PLAN VIEW

SECTION A-A

END VIEW

Diam.	Slope X : Y	A B C E F G					
		A	B	C	E	F	G
12"	2.4 : 1	4"	24"	48"	72"	24"	2"
15"	2.4 : 1	6"	27"	46"	73"	30"	2 1/2"
18"	2.3 : 1	9"	27"	46"	73"	36"	2 3/4"
24"	2.5 : 1	9"	43"	30"	73"	48"	3"
30"	2.5 : 1	12"	54"	19"	73"	60"	3 1/2"
36"	2.5 : 1	15"	63"	34"	97"	72"	4"
42"	2.5 : 1	21"	63"	35"	98"	78"	4 1/2"
48"	2.5 : 1	24"	72"	26"	98"	84"	5"

Oldcastle Precast
 801 West 12th Street, Ogden, Utah 84404
 Phone: 801-399-1171 Fax: 801-392-7849

Flared End
 FILE NAME: 210DPERNDFLARE
 ISSUE DATE: 5/2008
 www.oldcastleprecast.com

Flared End Section for Round Pipe
 Copyright © 2008

I-3742 Drop Inlet

BICYCLE SAFETY LUGS

CAST IRON to conform to ASTM A-48, CLASS 35B H-20 Wheel Loading

I-3742
 Est. weight 582 lbs.

D&L SUPPLY
 D&L Foundry
 P.O. Box 1919
 Moses Lake, WA 98837
 Phone: (509) 765-7952
 Fax: (509) 765-8124

Designation: I-3742 Date of Drawing: JUL 1994 Prepared by: D&L Supply Scale: 1" = 17 1/2" Sheet Number: 1 Total Sheets: 1

SUMMIT EDEN PHASE 1A
STORM DRAIN DETAILS

NV5
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 WWW.NV5.COM

REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 RYAN W. CATHEY
 12/21/13
 STATE OF UTAH

SHEET NUMBER
5.00

SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = N/A

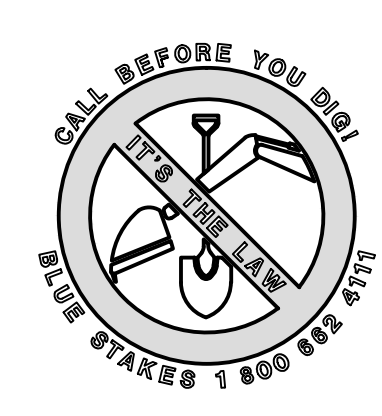
JOB NUMBER
SLB079306

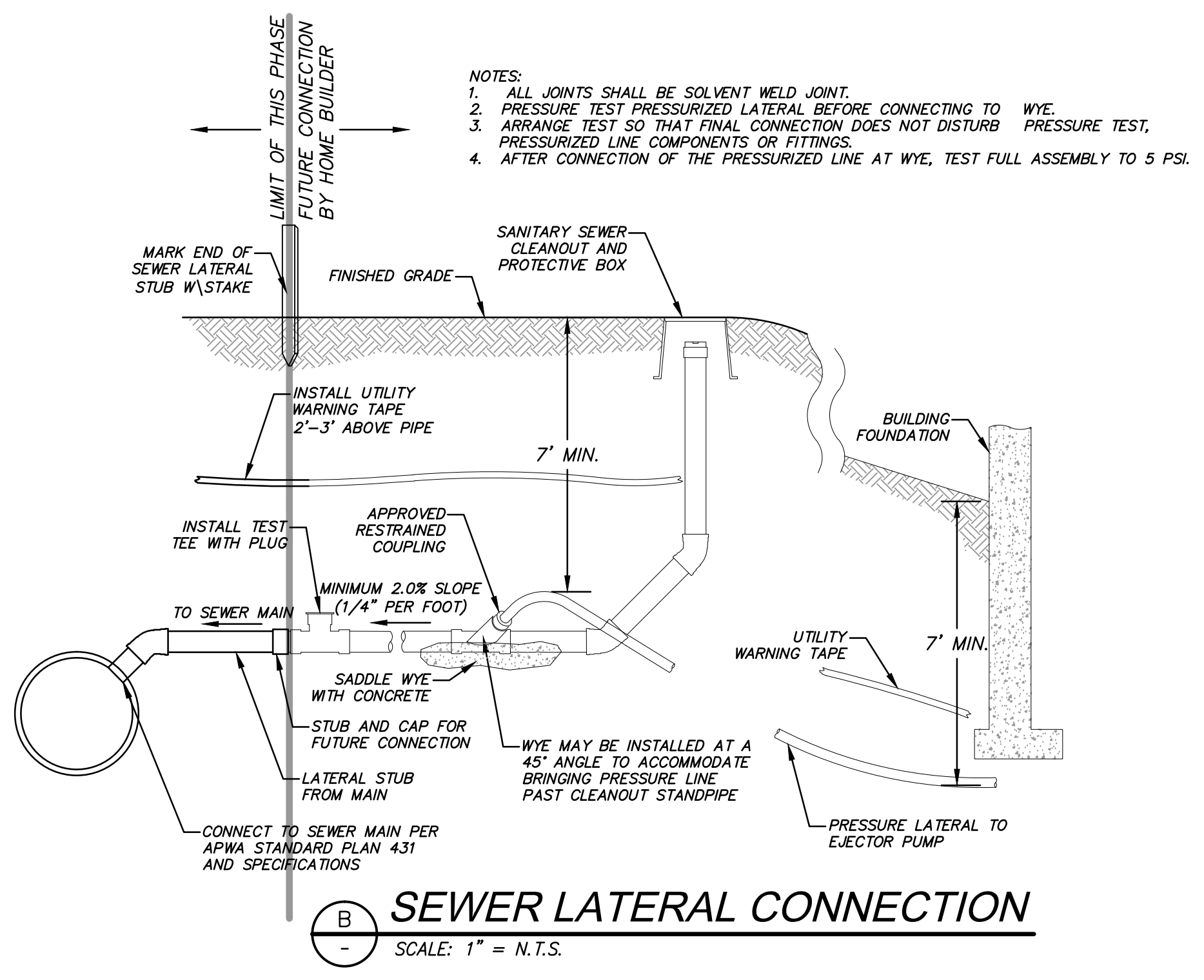
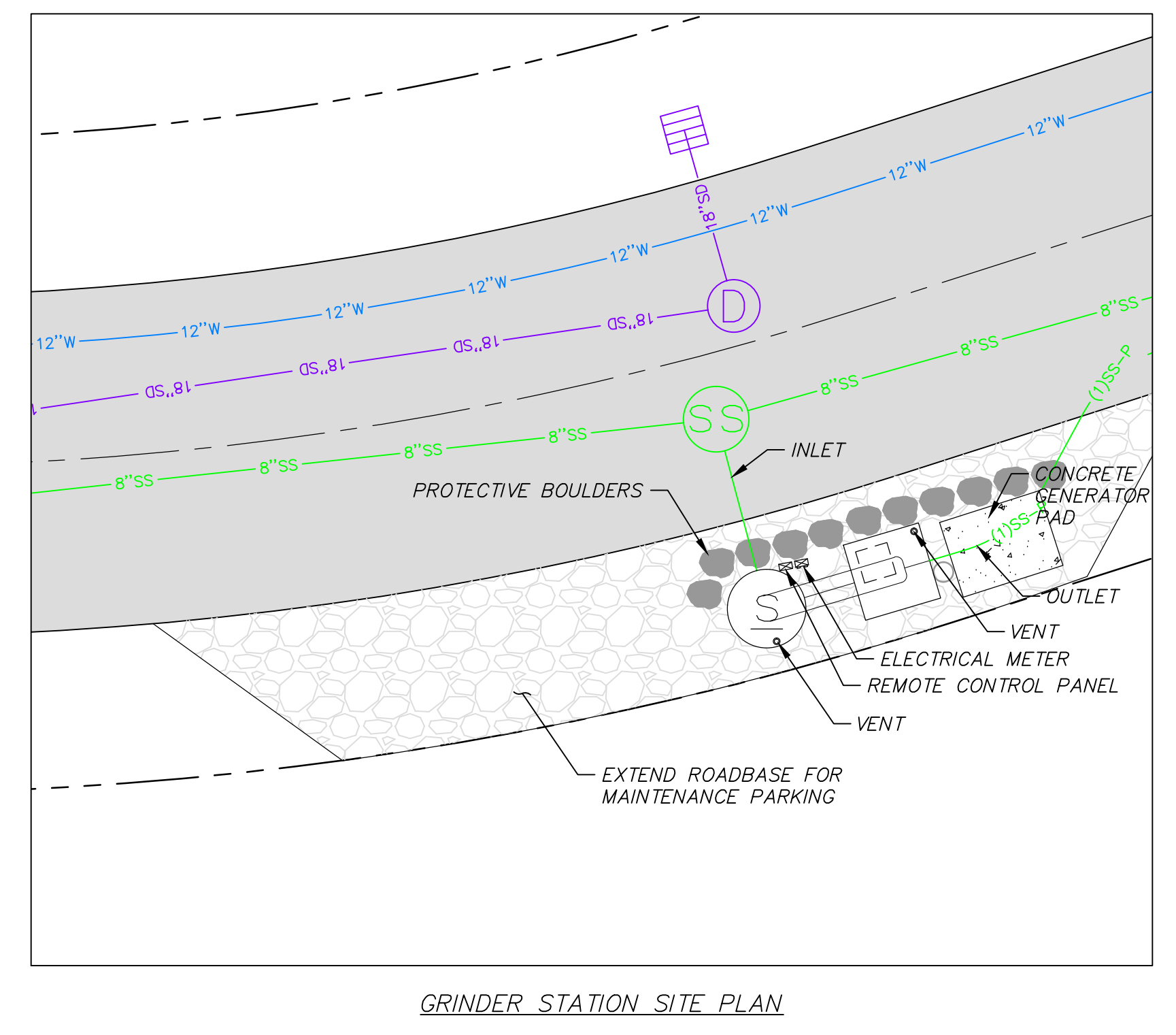
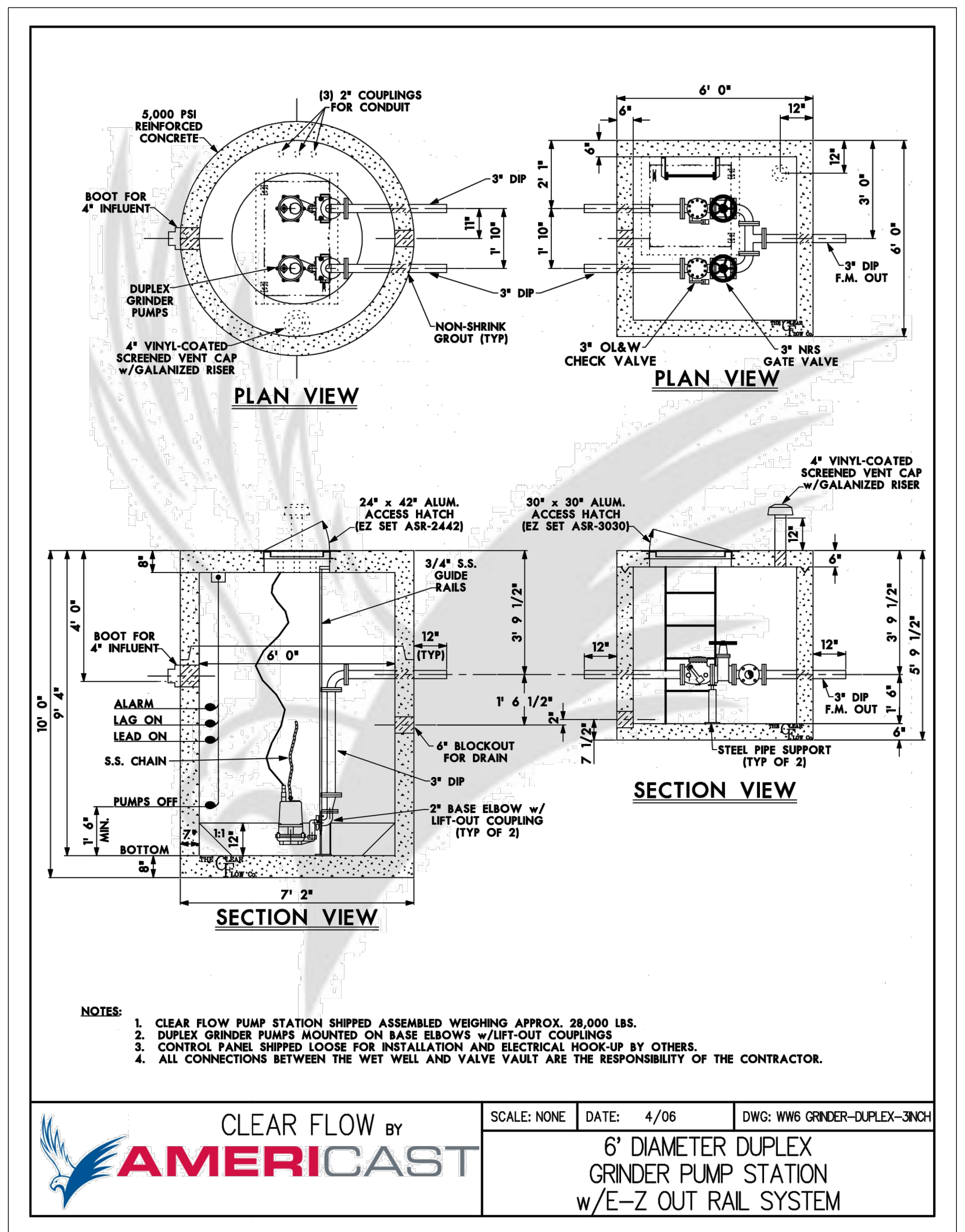
DATE SUBMITTED: 11/21/2013

PREPARED FOR: SUMMIT, LLC

NO.	BY	DATE	REVISIONS
1	PHC	8/27/2013	ADD ITEM 1
2	PHC	9/24/2013	UTILITY, GRADING, AND ROCKETRY REV

CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans, and must be approved by the preparer of these plans.



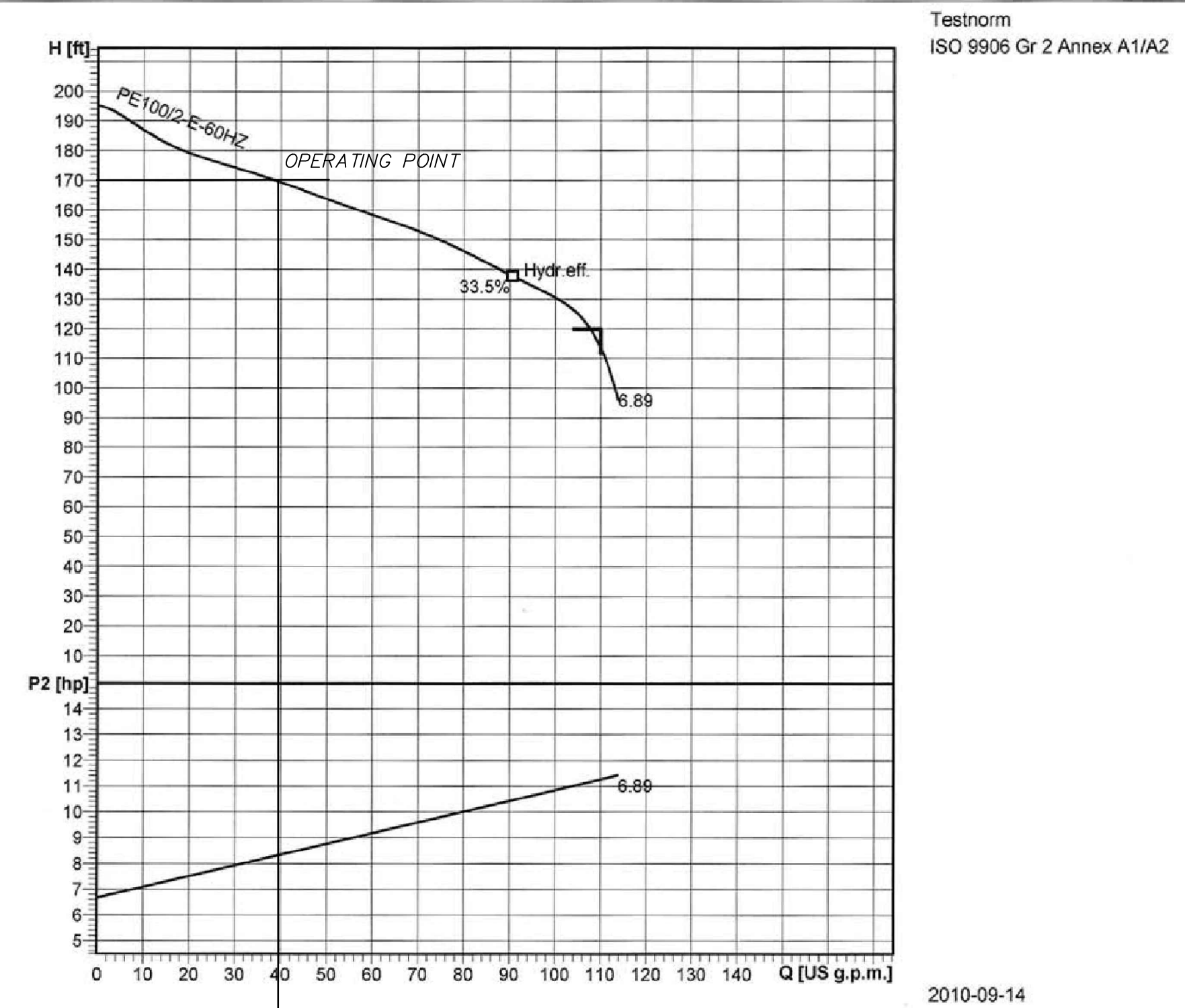


PIR PE PE100/2-E-60HZ

PUMP NAME	INVERT IN	INVERT IN SIZE	SUMP ELEV	BASIN DIA.	PUMP HEAD	PUMP HP	DISCHARGE DIA	DISCHARGE VELOCITY	MIN STORAGE VOLUME (gal)	STATION DETAIL	PUMP	PEAK FLOW (GPM)	AUTO DIALER	MAIN POWER TRANSFER SWITCH	POWER
GR-2	8689.80	8"	8682.71	72"	170	8	3"	2.16	1500	AMERICAST 6' DIA. DUPLEX	ABS PUMP MODEL PIR PE PE100	38	CELLULAR	MANUAL	1 PHASE/240 VOLT

SEWER GRINDER PUMP DETAILS
 SCALE: 1" = N.T.S.

Grinder Station Calculations	
GR-2	
Head Difference	8683.71-8848.06=164.35 ft.
Pipe Length	750 ft.
Friction Loss	6.28 ft.
Flow Calc.	(23 units)(3.2 People/household)(100 gallons/day/capita) =5.11 g/m average
Peaking Factor (Ten States Method)	$Q_{peak}/Q_{ave} = 18+VP/4+VP=4.5$ $Q_{peak} = 23.0$ g/m
Pump Curve	See Pump Curve = 40 g/m



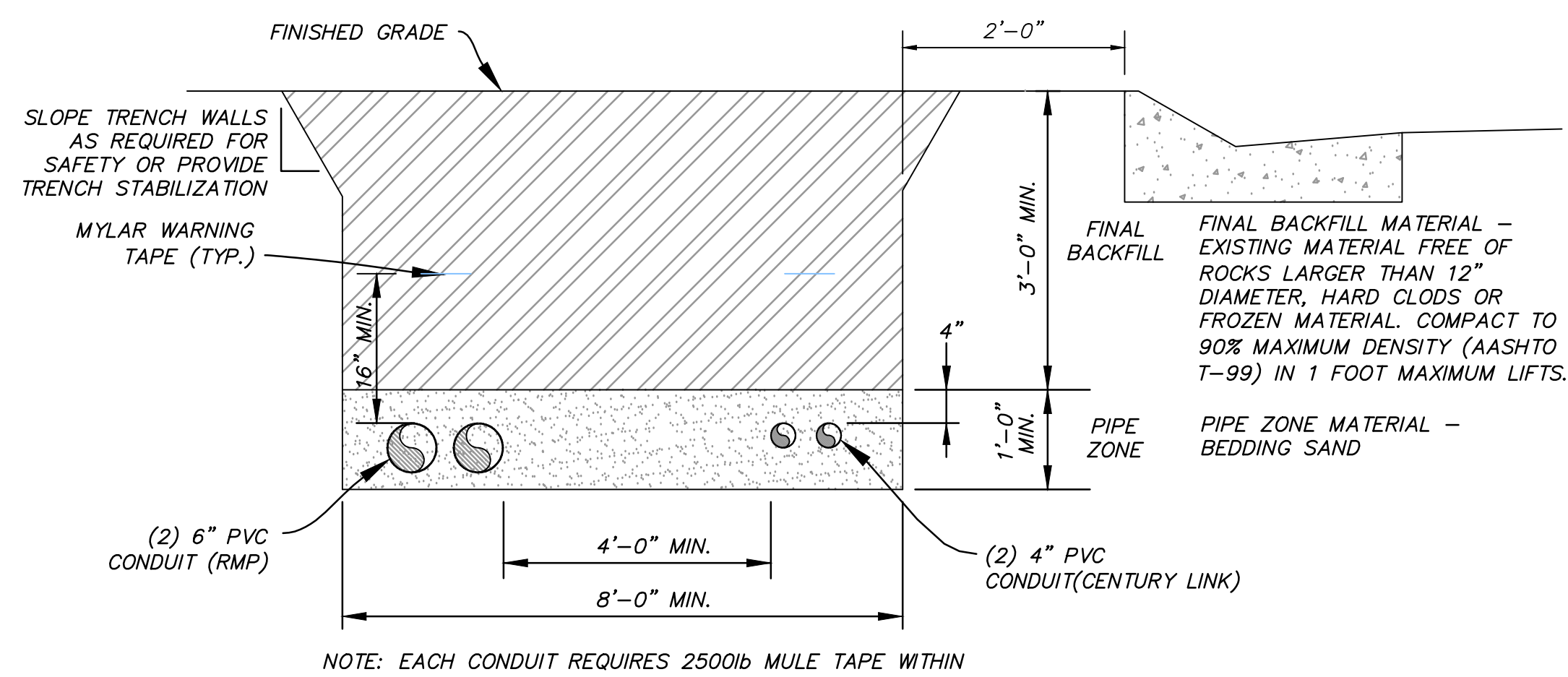
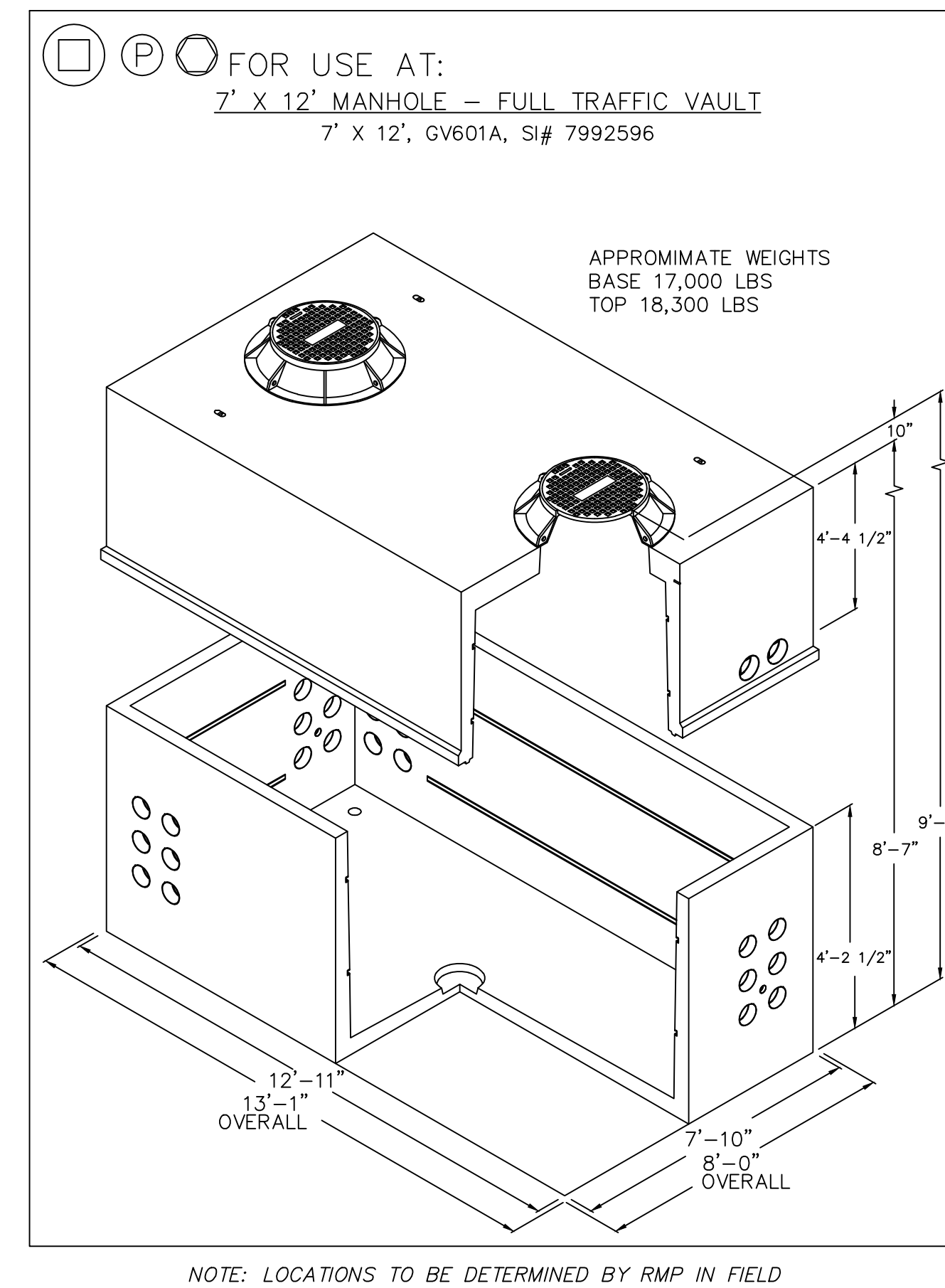
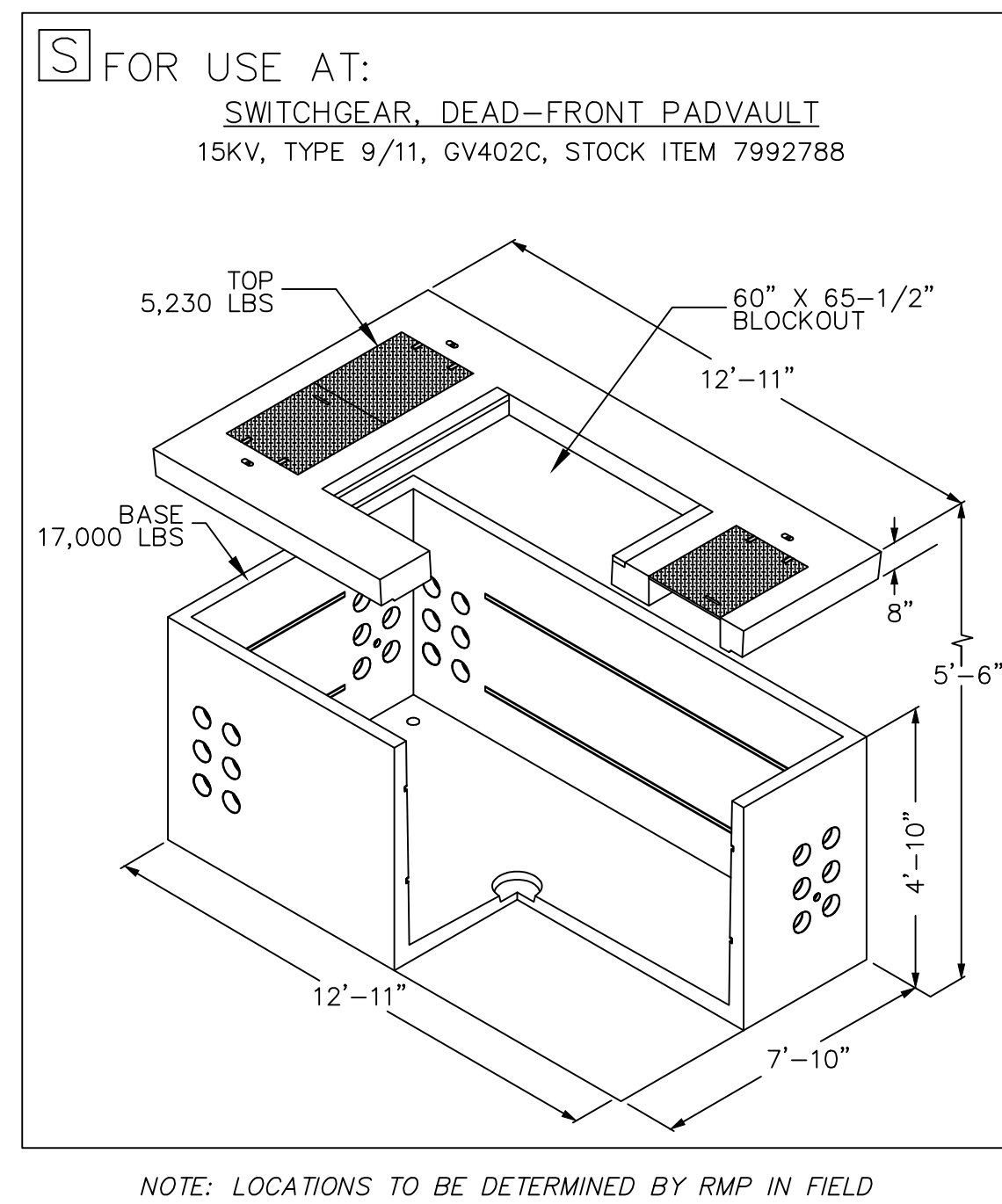
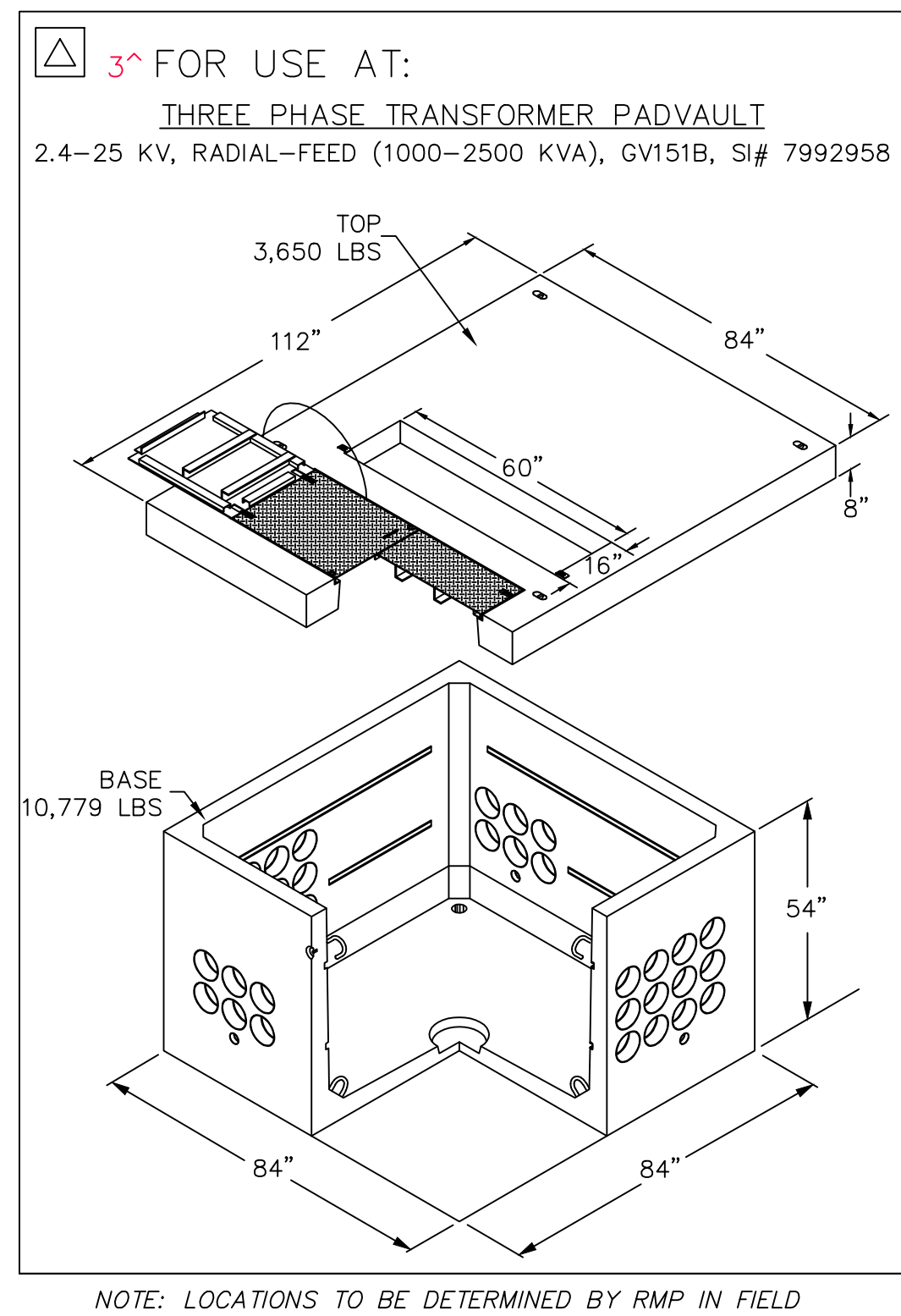
NO.	BY	DATE	REVISIONS
1	RMC	8/27/2013	ADDENDUM 1
2	RMC	9/24/2013	UTILITY, GRADING, AND SOCIETY REV.

SUMMIT EDEN PHASE 1A
SEWER DETAILS
 PREPARED FOR: SUMMIT, LLC
 DATE SUBMITTED: 11/21/2013

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 BEYOND ENGINEERING
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 MURRAY, UT 84107
 WWW.NV5.COM

REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 RYAN W. CATHEY
 11/21/13
 STATE OF UTAH

SHEET NUMBER
5.10
 SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = N/A
 JOB NUMBER
SLB079306



POWER CONDUIT TRENCH
 NTS

SUMMIT EDEN PHASE 1A
ELECTRICAL DETAILS

DATE SUBMITTED: 11/21/2013

PREPARED FOR: SUMMIT, LLC

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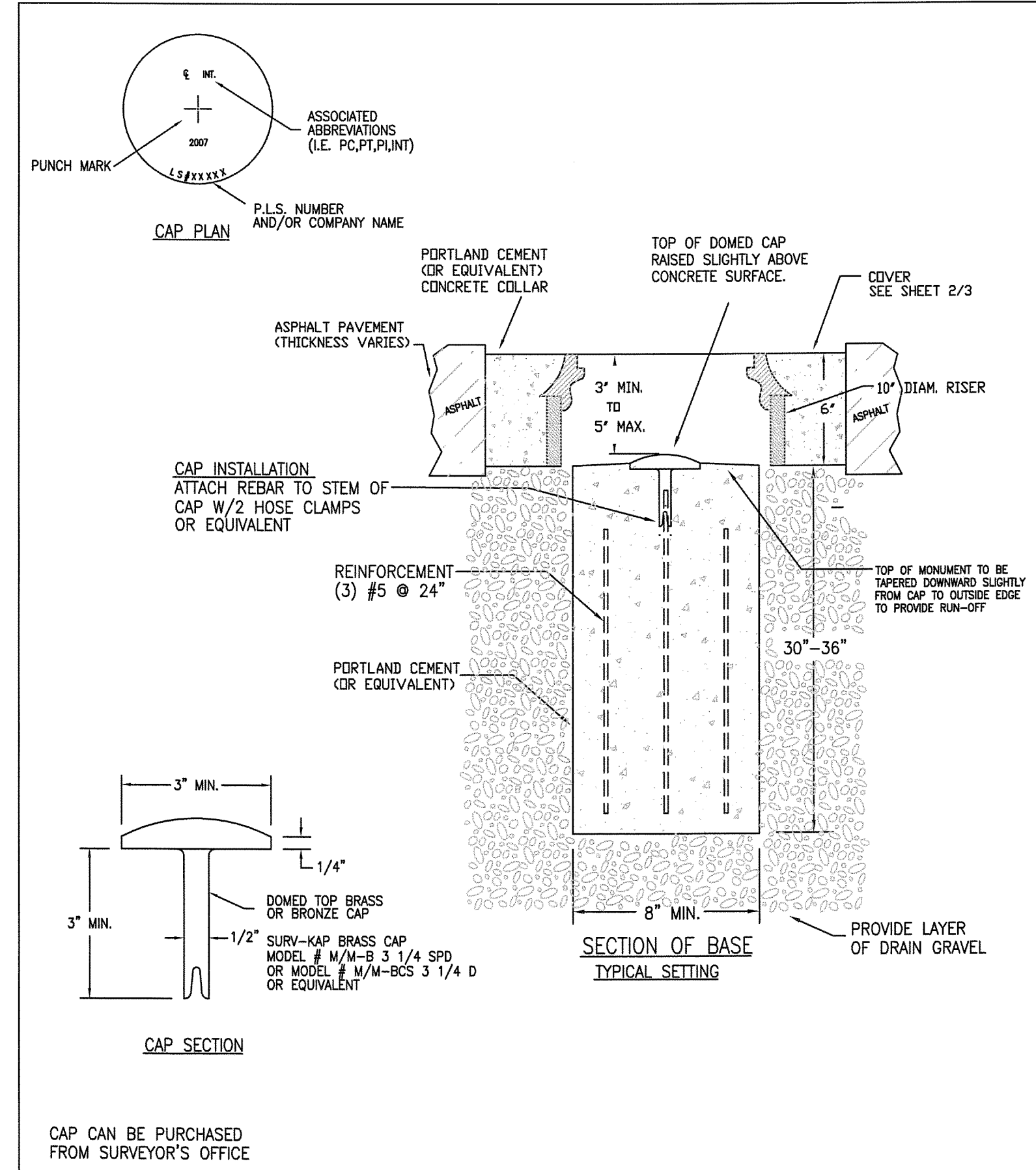
REGISTERED PROFESSIONAL ENGINEER
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 RYAN W. CATHEY
 11/21/13
 STATE OF UTAH

SHEET NUMBER
5.20

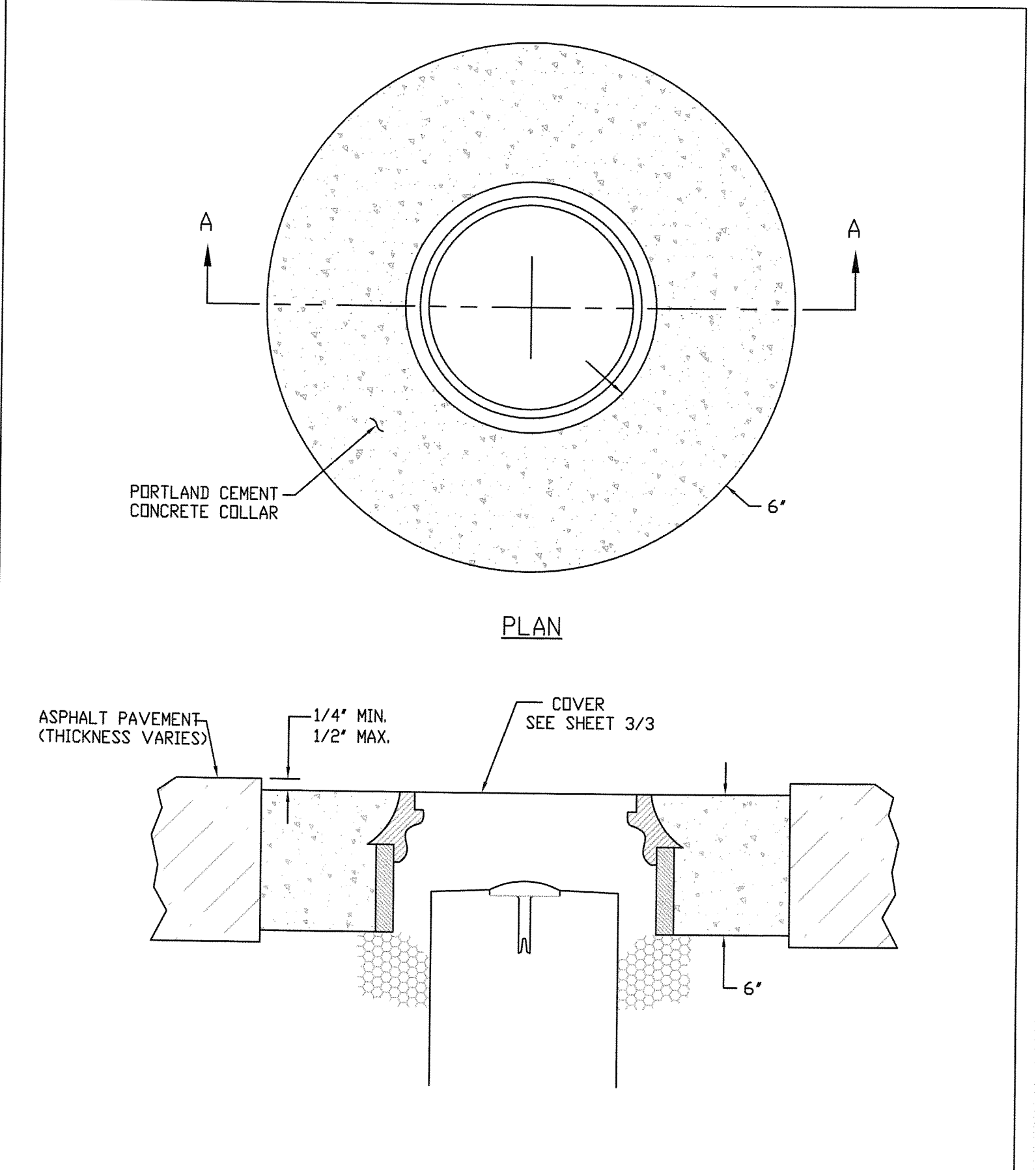
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 HORIZONTAL: 1" = N/A

JOB NUMBER
SLB079306

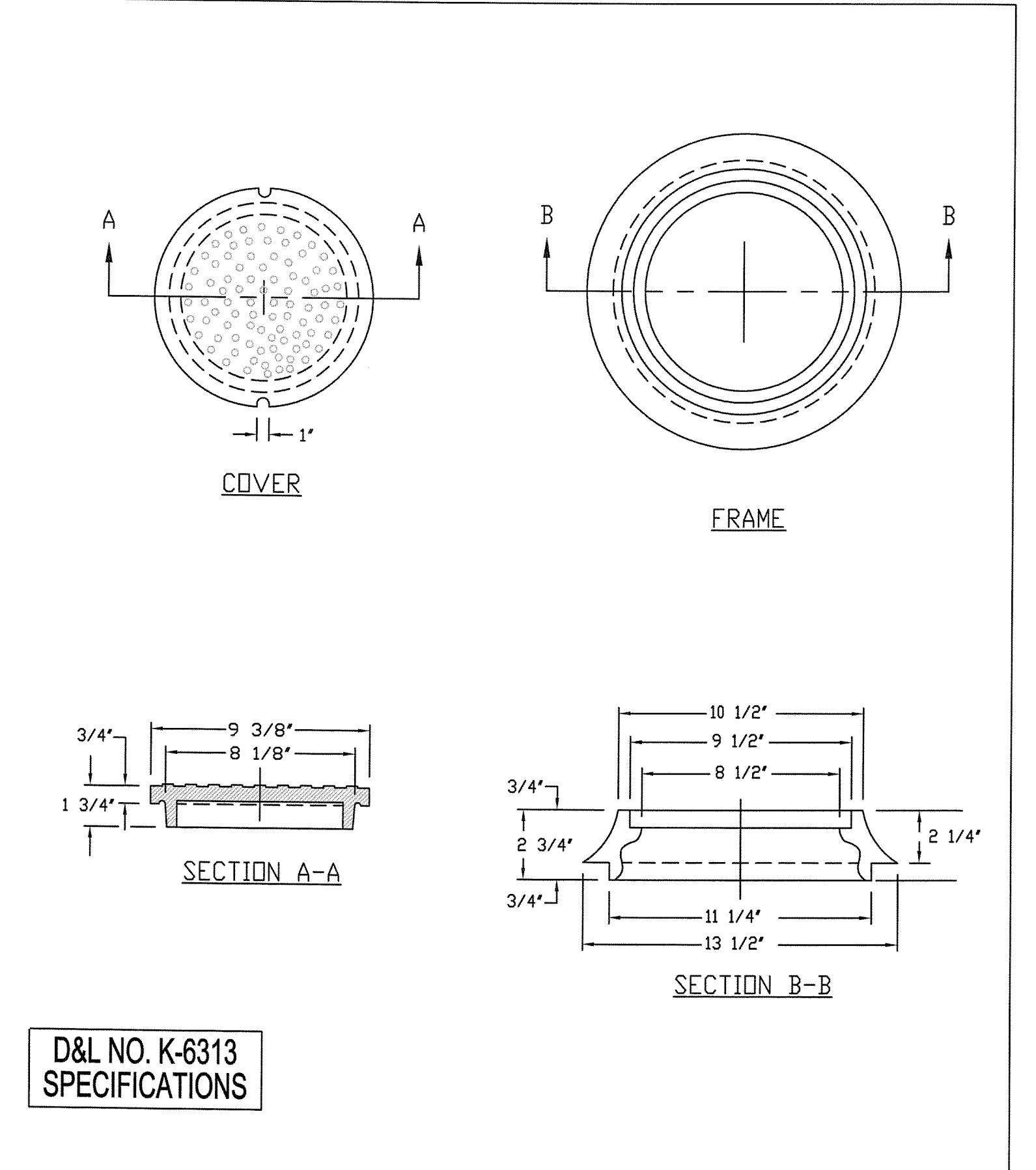




WEBER COUNTY SURVEY OFFICE	RING & LID SURVEY MONUMENT	STANDARD PLANS
		Monument Standard
3/28/10	399-8020	SHEET 1 OF 3



WEBER COUNTY SURVEY OFFICE	Cover Collar For Survey Monuments	STANDARD PLANS
		Monument Specifications
3/28/10	399-8020	SHEET 2 OF 3



WEBER COUNTY SURVEY OFFICE	RING & LID SURVEY MONUMENT	STANDARD PLANS
		Monument Specifications
3/28/10	399-8020	SHEET 3 OF 3

D&L NO. K-6313
SPECIFICATIONS

NO.	BY	DATE	REVISIONS
1	RHC	8/27/2013	ADDITION 1
2	RHC	8/27/2013	UTILITY, GRADING, AND SOCIETY REV.

SUMMIT EDEN PHASE 1A
MISCELLANEOUS DETAILS

CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

PREPARED FOR: SUMMIT, LLC
 DATE SUBMITTED: 11/21/2013

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REGISTERED PROFESSIONAL ENGINEER
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 11/21/13
 STATE OF UTAH

SHEET NUMBER	5.30
SCALE	VERTICAL: 1" = N/A HORIZONTAL: 1" = N/A
JOB NUMBER	SLB079306

