



July 30, 2014

Dana Schuler  
Weber County Engineering Division  
2380 Washington Blvd. #240  
Ogden, UT 84401

RE: Summit Eden Phase 1A

Mrs. Shuler,

The following are comments and responses pertaining to the civil engineering plans from your review and received on June 06, 2014.

**Engineering review 7**

1. Easement will be needed for new lift station location.

*Response: Owner is working with Weber County to secure necessary easements.*

2. Sheet 1.01 - Why did the water service size change from 3/4" to 2"? Seems very large for residential service.

*Response: In home sprinkler demand, experience, and vendor recommendation.*

3. Sheet 1.01 - Why did the sewer service size change from standard to 6"? Seems very large for residential service.

*Response: Sewer laterals changed back to 4"*

4. Sheet 1.03 - Why have the water main sizes changed? Is this in the master plan approved by DDW?

*Response: yes - to avoid stagnation within the line they were reduced.*

5. Sheet 1.04 - Update plan view to match profile in insert.

*Response: Plan view matches profile*

6. Sheet 2.00 - 13% road slope will need approval from fire department.

*Response: 13% has been approved by Fire Marshall.*

7. Sheet 2.01 - What is SD inlet B-2 Catching?

*Response: The thought is that it will give snow melt somewhere to go if snow gets bermed up from the slow plows all winter*

8. Sheet 5.10 - Show detailed grading at lift station site plan.

*Response: Lift station grading has been added*

OFFICES NATIONWIDE

5217 SOUTH STATE STREET, STE 300 | MURRAY, UT 84107 | WWW.NV5.COM | OFFICE 801.743.1300 | FAX 801.743.0300

CONSTRUCTION QUALITY ASSURANCE - INFRASTRUCTURE ENGINEERING - MUNICIPAL OUTSOURCING - ASSET MANAGEMENT - ENVIRONMENTAL SERVICES

9. Sheet 5.20 - Random piece of a detail on right side of sheet.

*Response: Detail has been removed.*

Regards,



Ryan Cathey, PE  
Engineering Manager  
NV5, Inc.

CC: Jared Andersen, PE- Weber County Engineer  
Rick Everson, PE- Watts Enterprises, Inc.-Land Owner's Representative

NV5

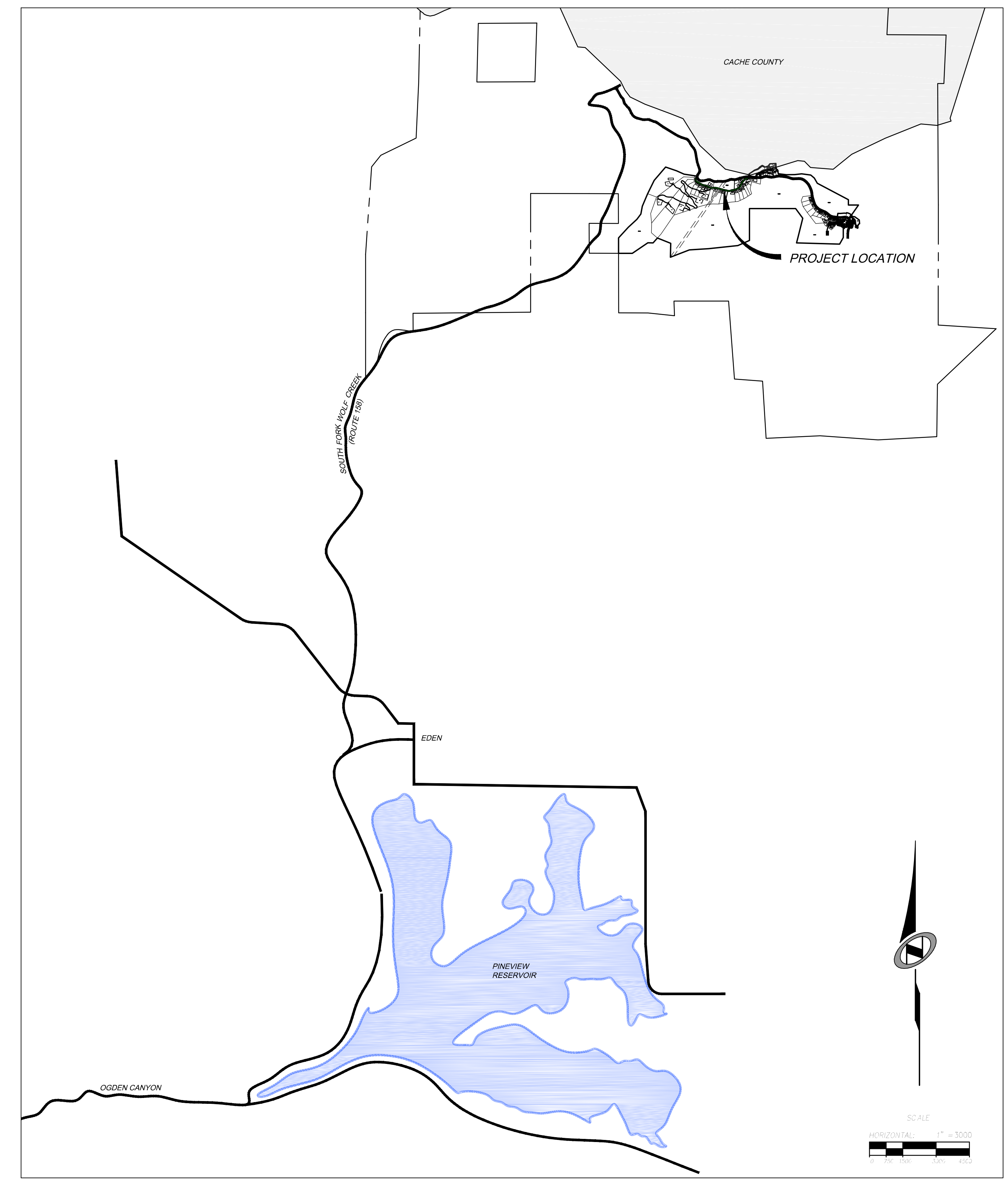
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# SUMMIT EDEN PHASE 1A

## ROADWAY AND UTILITY CONSTRUCTION DRAWINGS

**Located in Sec 01 T7N R1E**  
**Weber County, Utah**



**SHEET INDEX:**

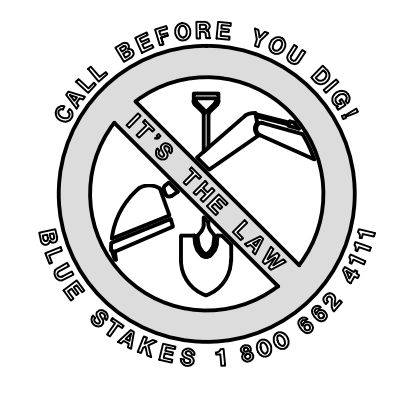
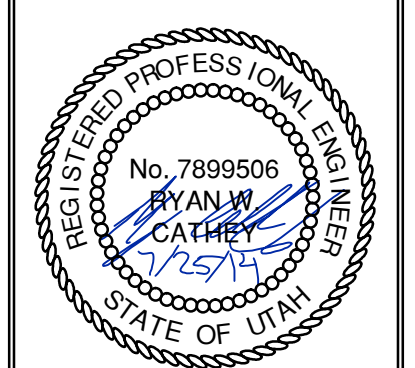
SHEET NUMBER	SHEET DESCRIPTION
1.00	CIVIL TITLE SHEET
1.01	GENERAL NOTES, LEGEND, AND KEYNOTES
1.02	SHEET KEYMAP
1.03	OVERALL UTILITY
1.04	OVERALL GRADING AND DRAINAGE
1.05	ROADWAY TYPICAL SECTION
2.00	PLAN & PROFILE - HORIZON RUN
2.01	PLAN & PROFILE - HORIZON RUN
2.02	PLAN & PROFILE - HORIZON RUN
3.00	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
5.01	WATER DETAILS
5.02	WATER DETAILS
5.10	SEWER DETAILS
5.11	SEWER DETAILS
5.12	MISCELLANEOUS DETAILS
5.20	ELECTRICAL DETAILS
5.30	MISCELLANEOUS DETAILS
6.00	DRY UTILITIES - HORIZON RUN
6.01	DRY UTILITIES - HORIZON RUN
6.02	DRY UTILITIES - HORIZON RUN
<b>ELECTRICAL PLANS</b>	
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
<b>ROCKERY DESIGN</b>	
1.1	COVER SHEET
1.2	PLAN VIEW
1.3	DESIGN CRITERIA
1.4a	SECTION VIEW
1.4b	SECTION VIEW
1.5	ARC ROCKERY CONSTRUCTION DETAILS
2.1	FHWA ROCKERY DESIGN CALCULATIONS
2.2	SLIDE CALCULATION OUTPUT

**SUMMIT EDEN PHASE 1A**

**CIVIL TITLE SHEET**

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

**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  
 VERTICAL: 1" = 10'  
 HORIZONTAL: 1" = 3000'

JOB NUMBER  
**SLB079306**

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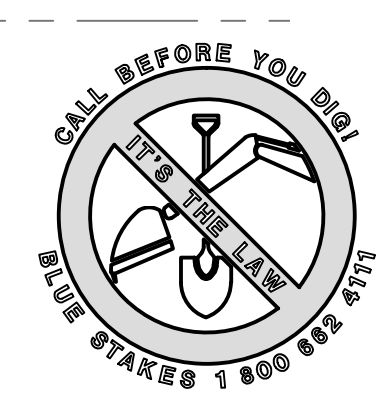
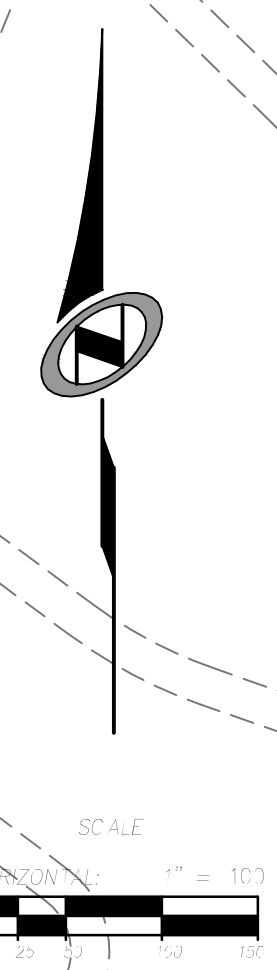
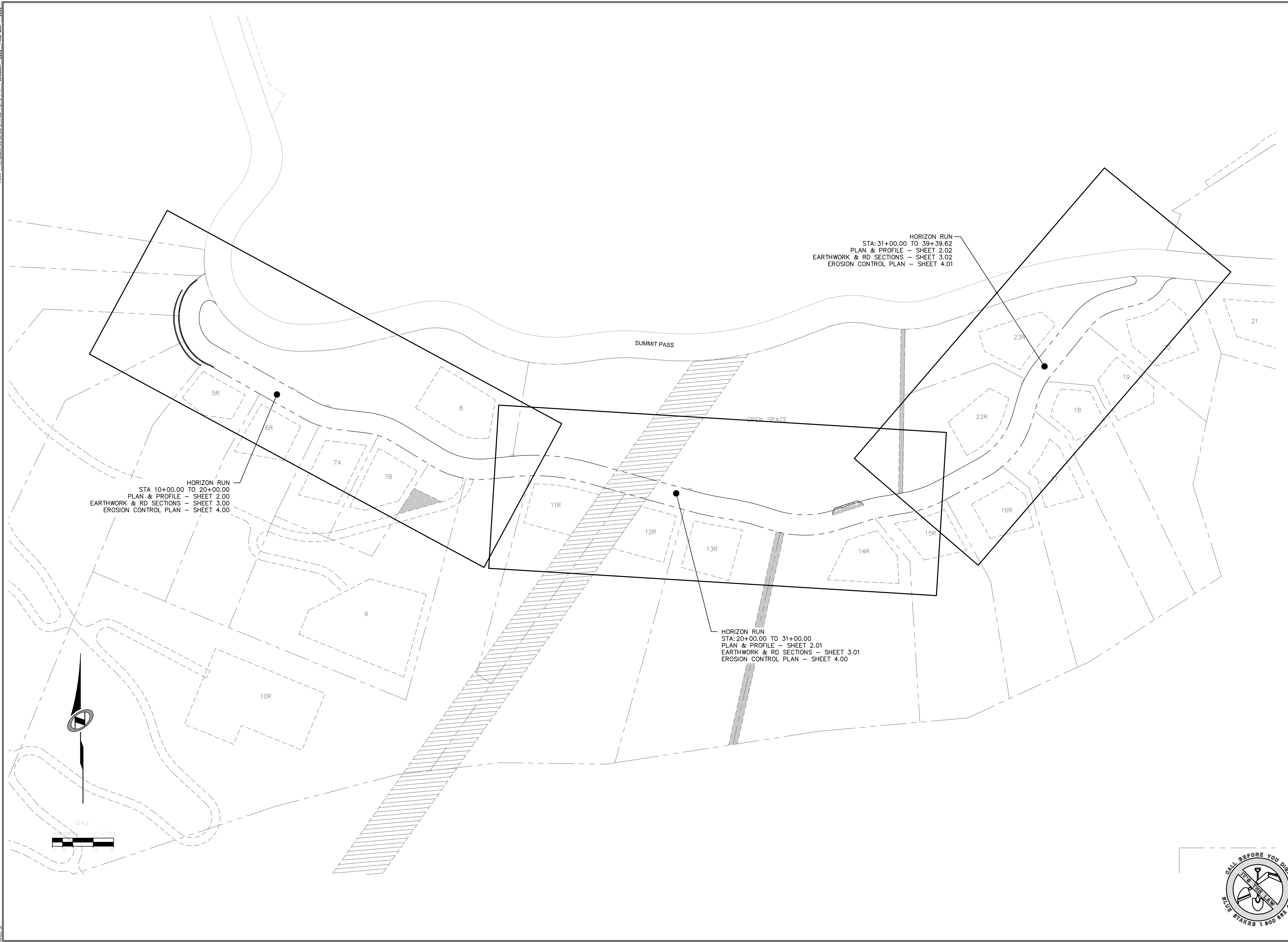
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 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.







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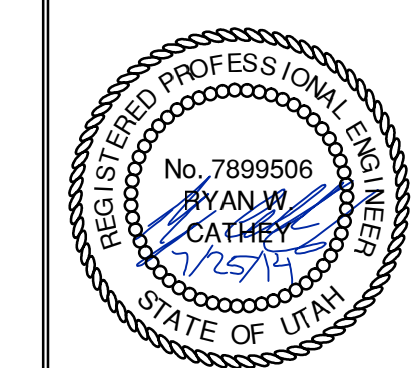
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2	RMC	5/27/2014	WEBB COUNTY REVIEW REVISIONS
3	RMC	5/27/2014	WEBB COUNTY REVIEW
4	RMC	7/25/2014	COUNTY REVIEW

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 must be approved by the preparer of these plans.

# SUMMIT EDEN PHASE 1A

## SHEET KEYMAP

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



SHEET NUMBER  
**1.02**

SCALE  
 VERTICAL: 1" = 100'  
 HORIZONTAL: 1" = NA

JOB NUMBER  
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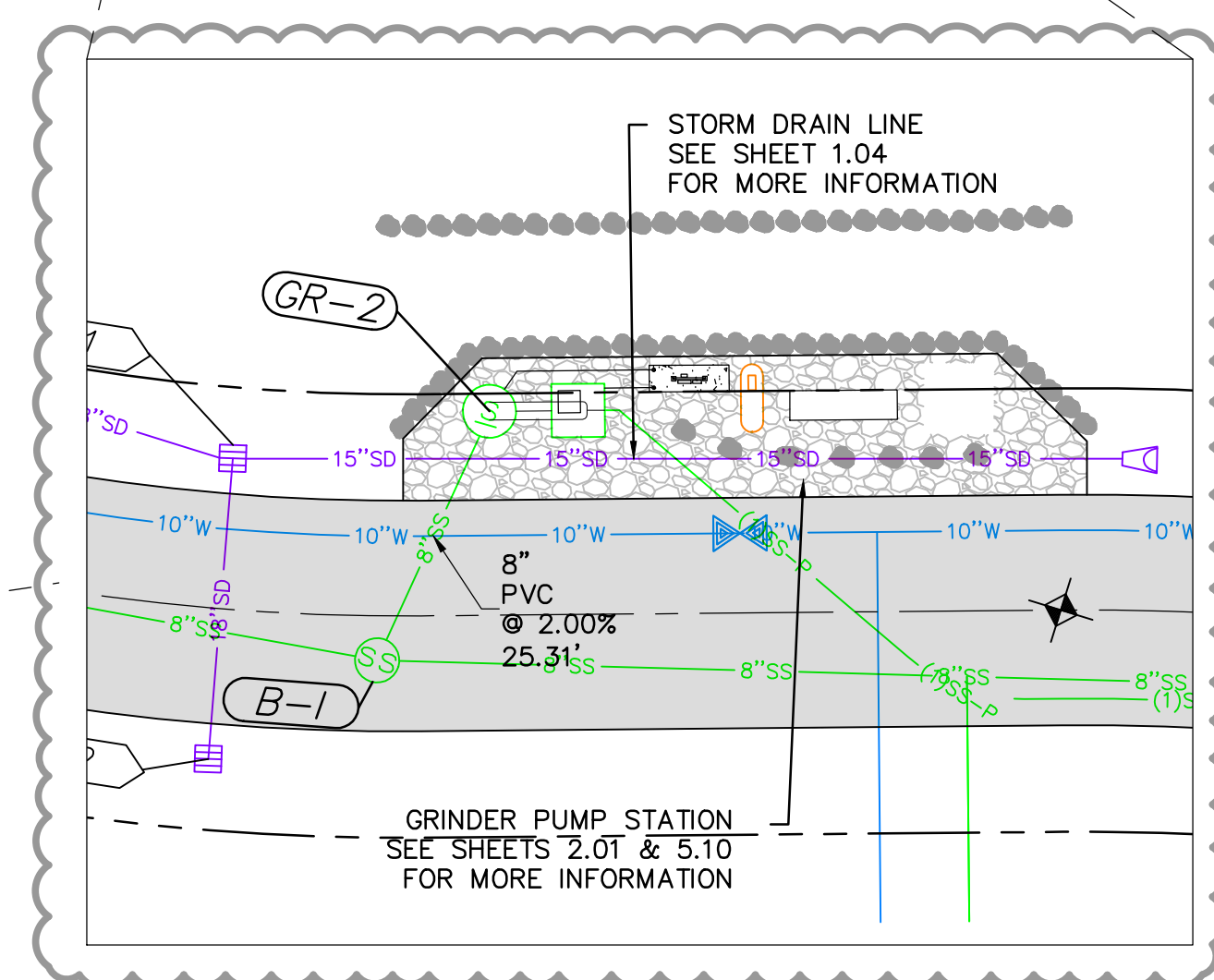
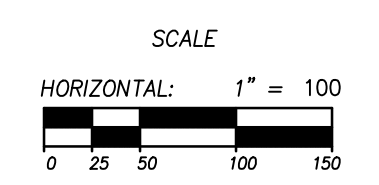
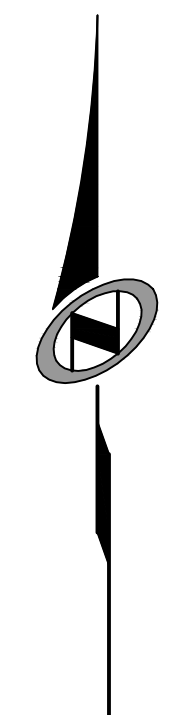
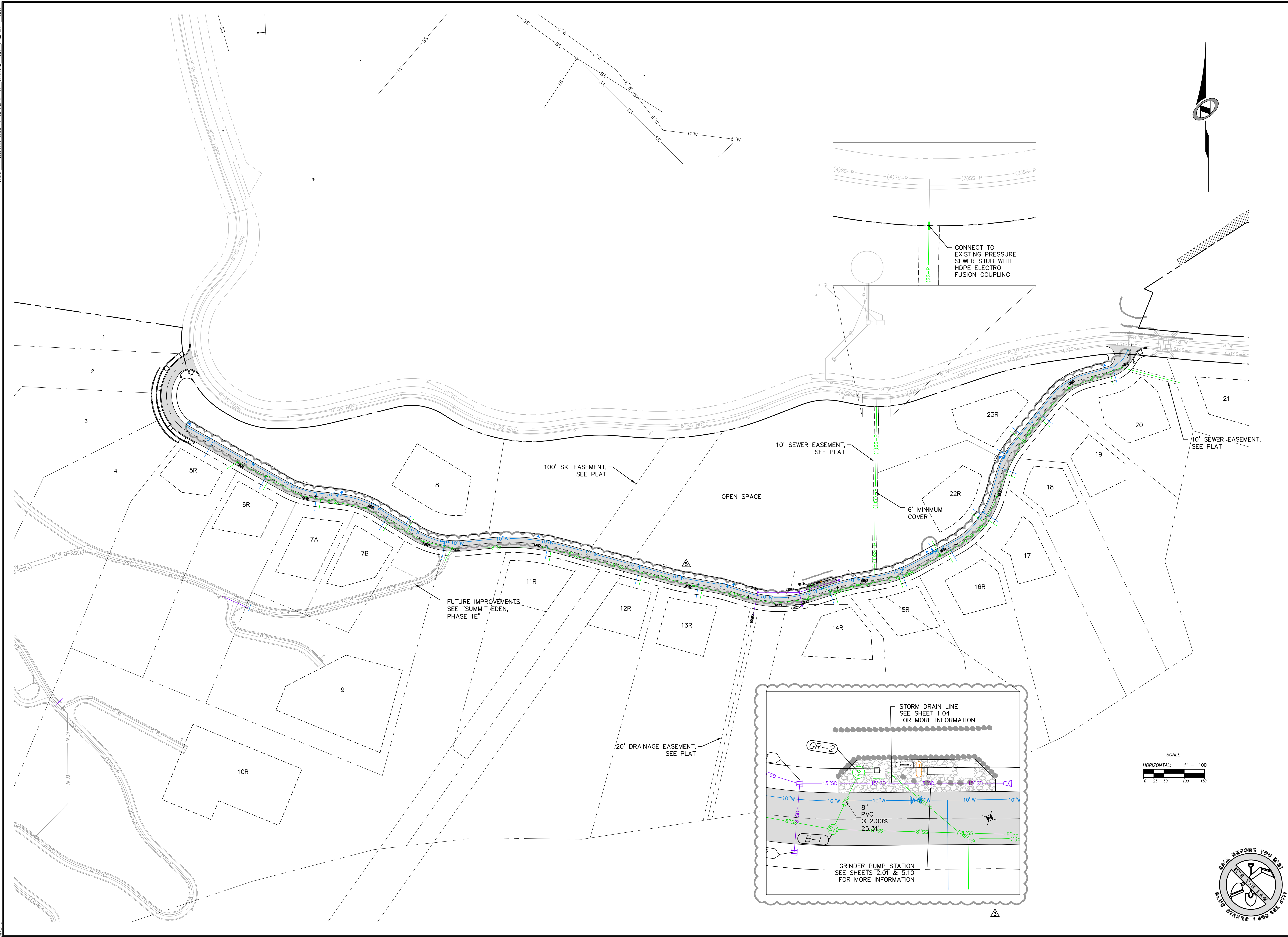
PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

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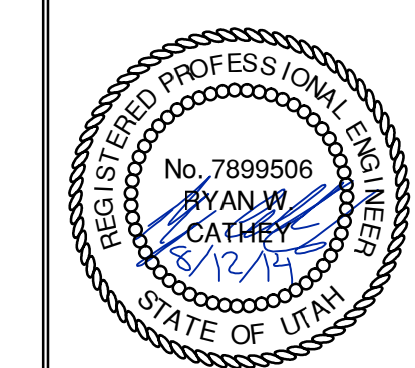


NO.	BY	DATE	REVISIONS
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2	RMC	5/27/2014	WEBER COUNTY REVIEW REVISIONS
3	RMC	7/25/2014	WEBER COUNTY REVIEW
4	RMC	8/12/2014	COUNTY REVIEW
5	RMC	8/12/2014	FINAL REVISIONS

# SUMMIT EDEN PHASE 1A

## OVERALL UTILITY PLAN

**NV5**  
 BEYOND ENGINEERING  
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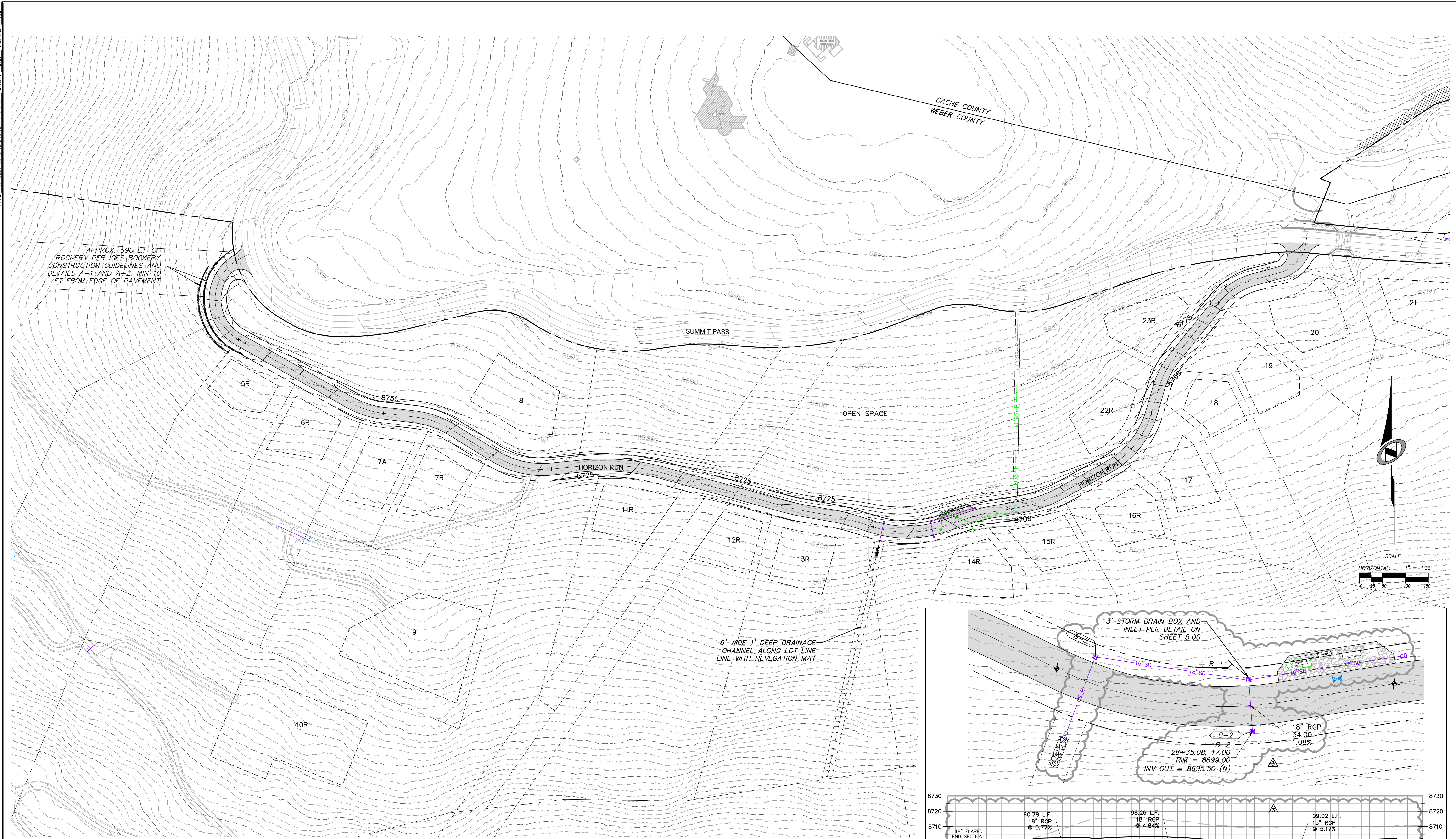
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 JOB NUMBER  
**SLB079306**

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

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.

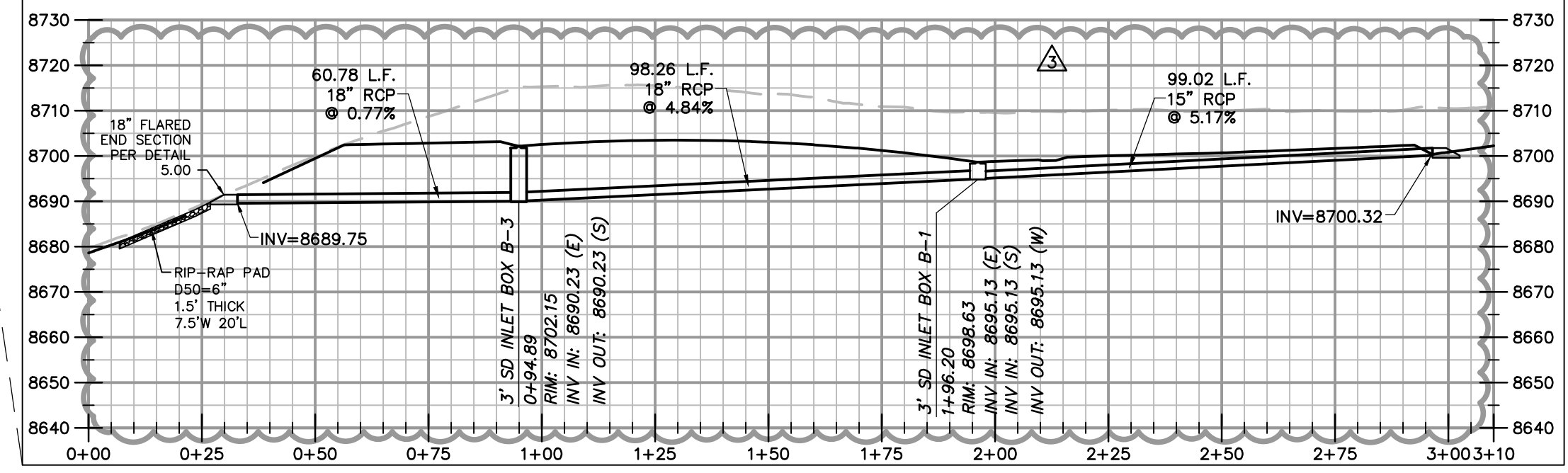
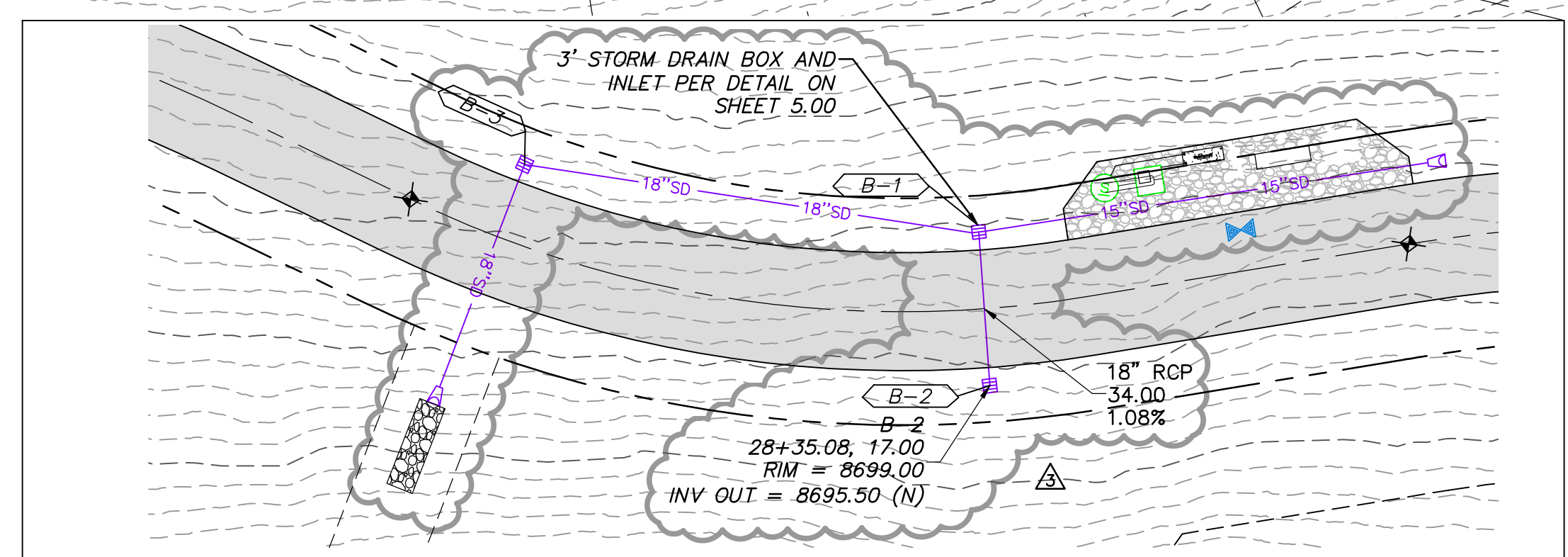


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APPROX. 1690 L.F. OF ROCKERY PER IGES (ROCKERY CONSTRUCTION GUIDELINES AND DETAILS A-1 AND A-2) MIN 10 FT FROM EDGE OF PAVEMENT.

6' WIDE 1' DEEP DRAINAGE CHANNEL ALONG LOT LINE WITH REVEGETATION MAT

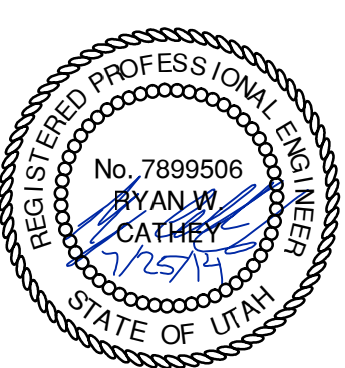


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2	RHC	5/27/2014	WEBER COUNTY REVIEW REVISIONS
3	RHC	5/27/2014	WEBER COUNTY REVIEW
4	RHC	7/25/2014	COUNTY REVIEW

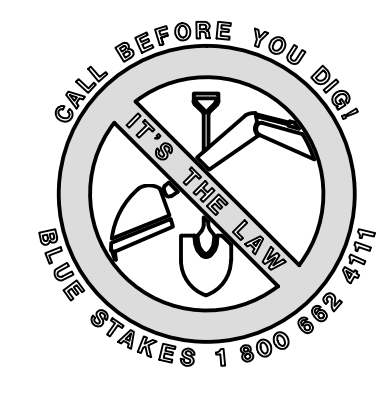
CAUTION  
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**SUMMIT EDEN PHASE 1A**  
**HORIZON RUN**  
**OVERALL GRADING AND DRAINAGE PLAN**  
 PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC  
 DATE SUBMITTED: 01/07/2014

**NV5**  
 BEYOND ENGINEERING  
 5217 SOUTH STATE STREET, SUITE 200  
 MURRAY, UT 84107  
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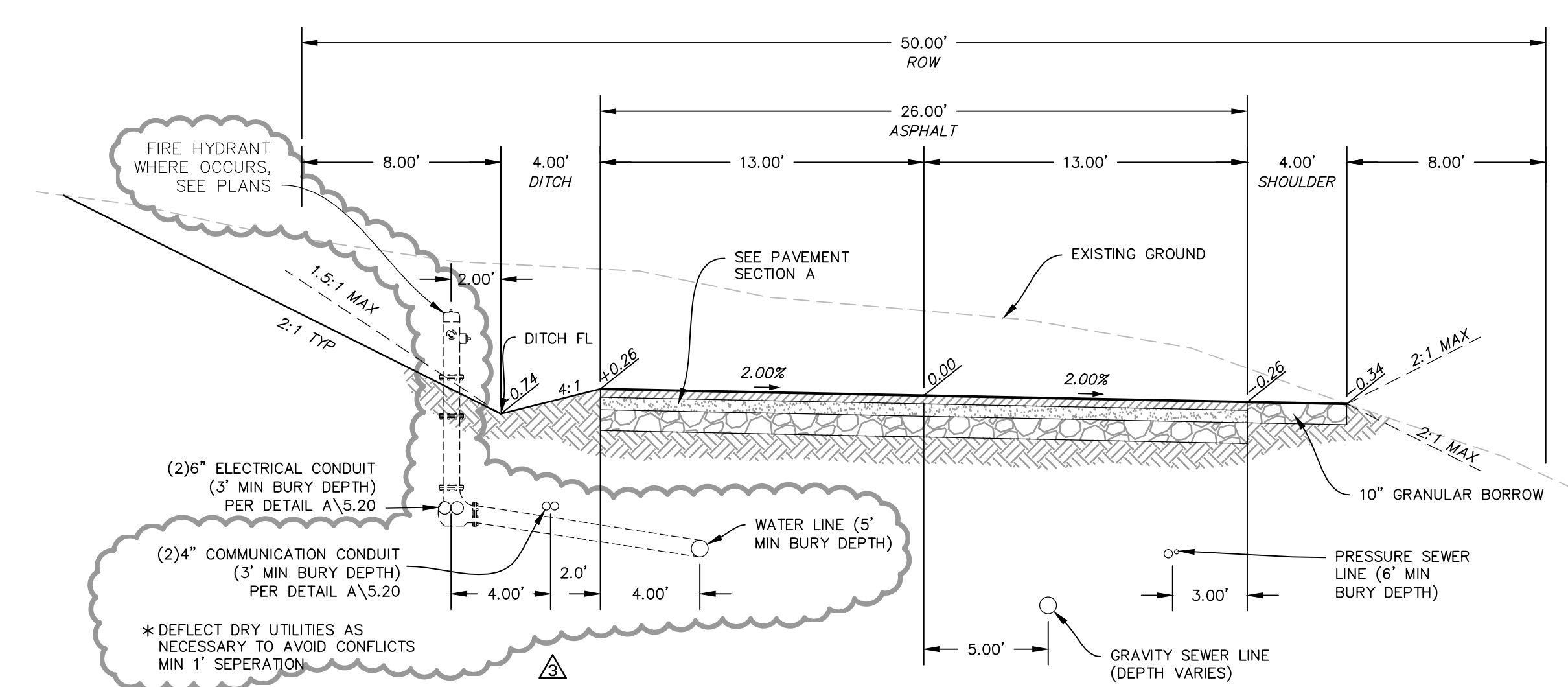


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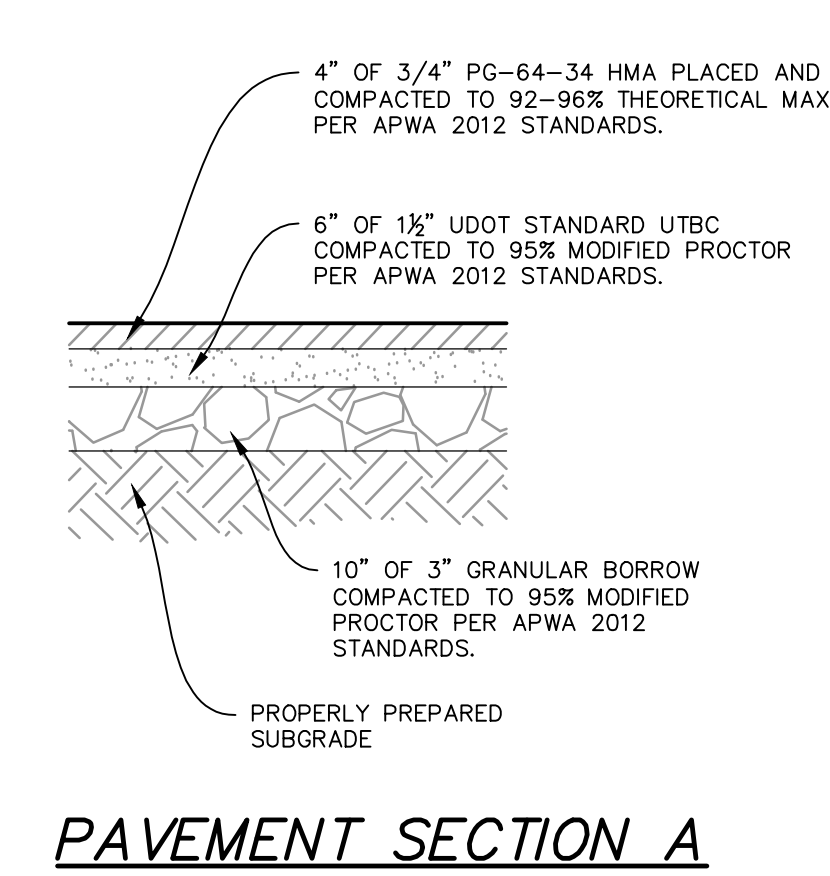


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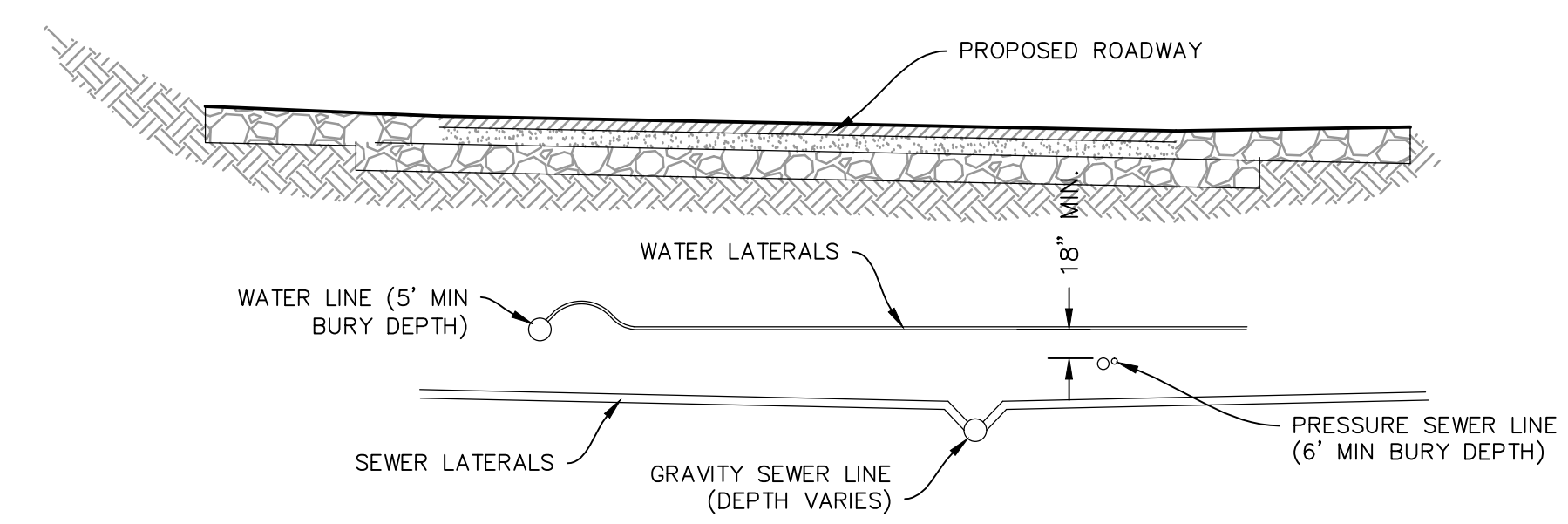




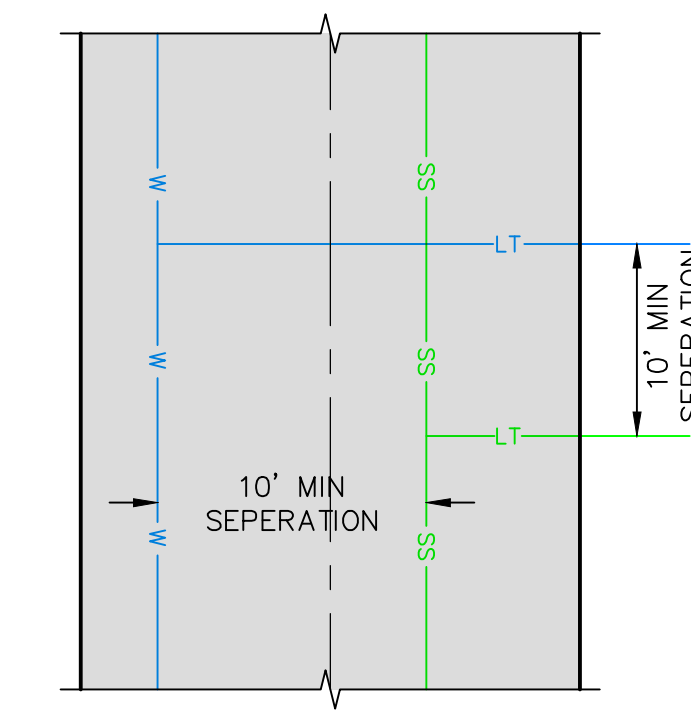
**TYPICAL ROADWAY SECTION A-A**  
 (50' RIGHT OF WAY SECTION)  
 STA: 10+00.00 TO 18+14.86



**PAVEMENT SECTION A**



**SECTION**  
**WATER AND SEWER SEPARATION DETAIL**



**PLAN**

FOR CUT AND FILL SLOPES GREATER THAN 2:1 REFER TO GEOTECHNICAL REPORT AND SUPPLEMENTAL LETTERS FOR SPECIAL STABILIZATION REQUIREMENTS.

NO.	BY	DATE	REVISIONS
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2	RHC	5/27/2014	REBE COUNTY REVIEW REVISIONS
3	RHC	5/27/2014	REBE COUNTY REVIEW
4	RHC	7/25/2014	COUNTY REVIEW

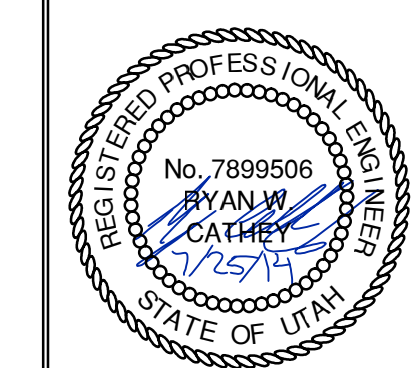
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

**SUMMIT EDEN PHASE 1A**

**ROADWAY TYPICAL SECTIONS**

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

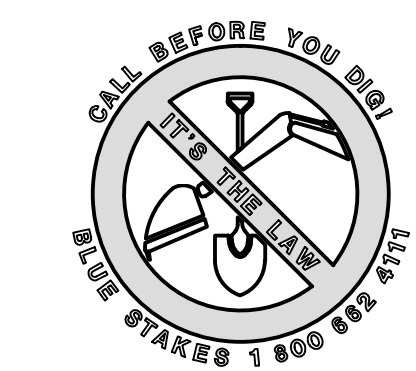
**NV5**  
 BEYOND ENGINEERING  
 5217 SOUTH STATE STREET, SUITE 200  
 MURRAY, UT 84107  
 801.743.0300 TEL. 801.743.0300 FAX  
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SHEET NUMBER  
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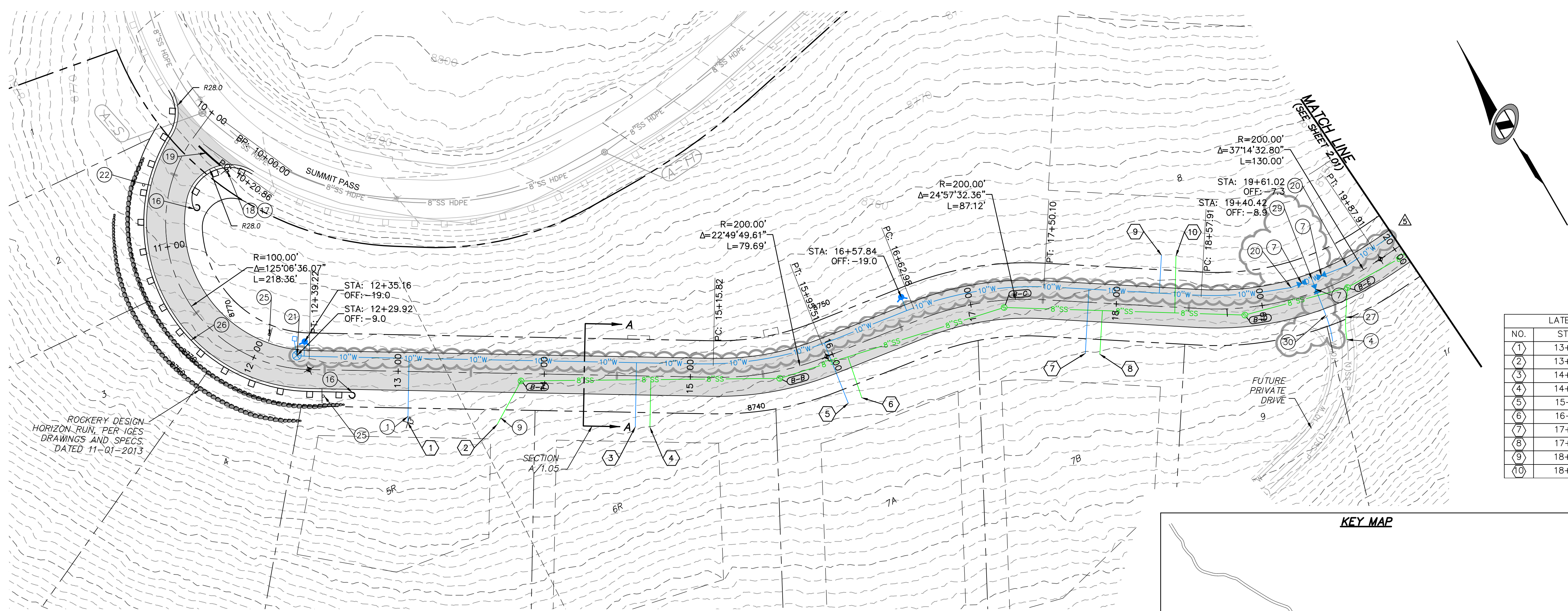
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JOB NUMBER  
**SLB079306**



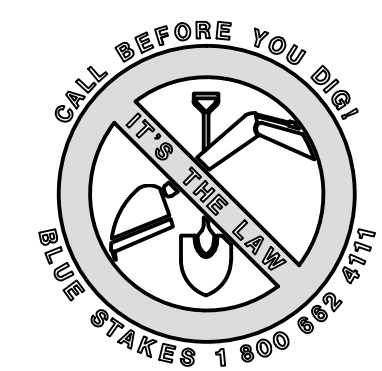
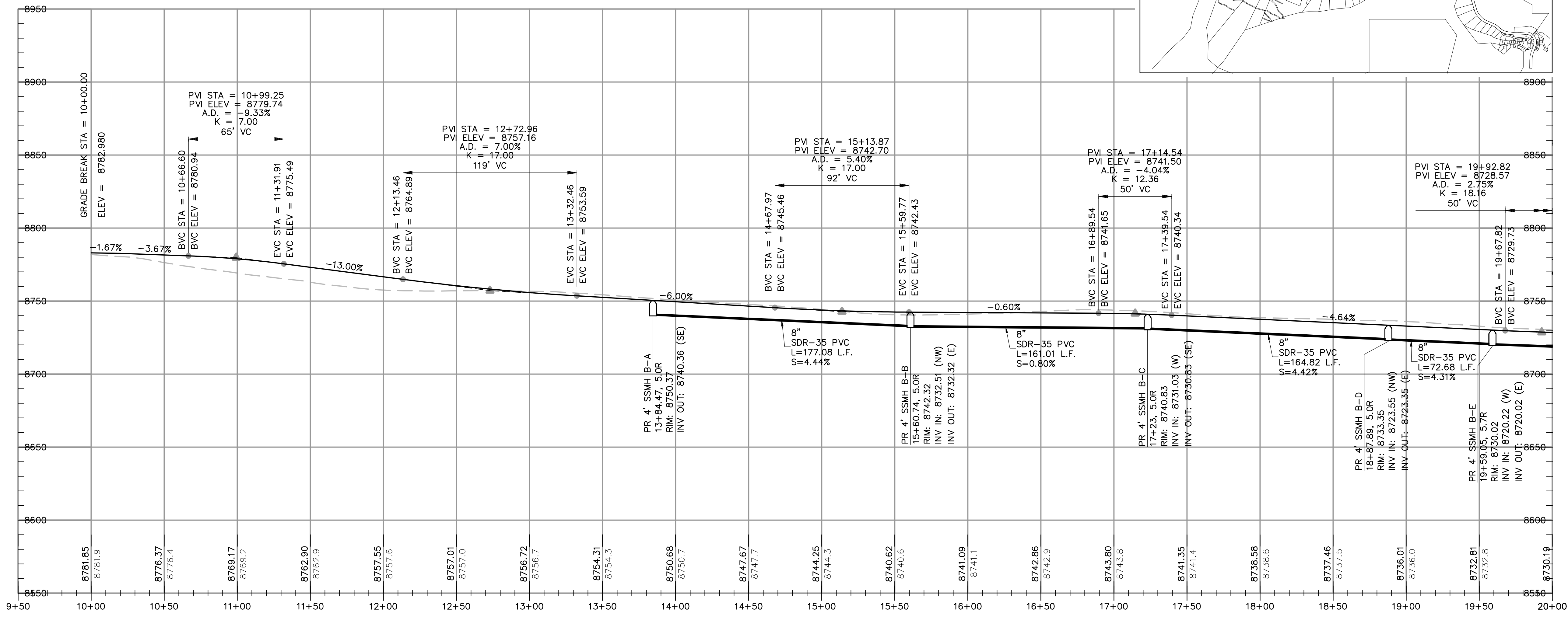
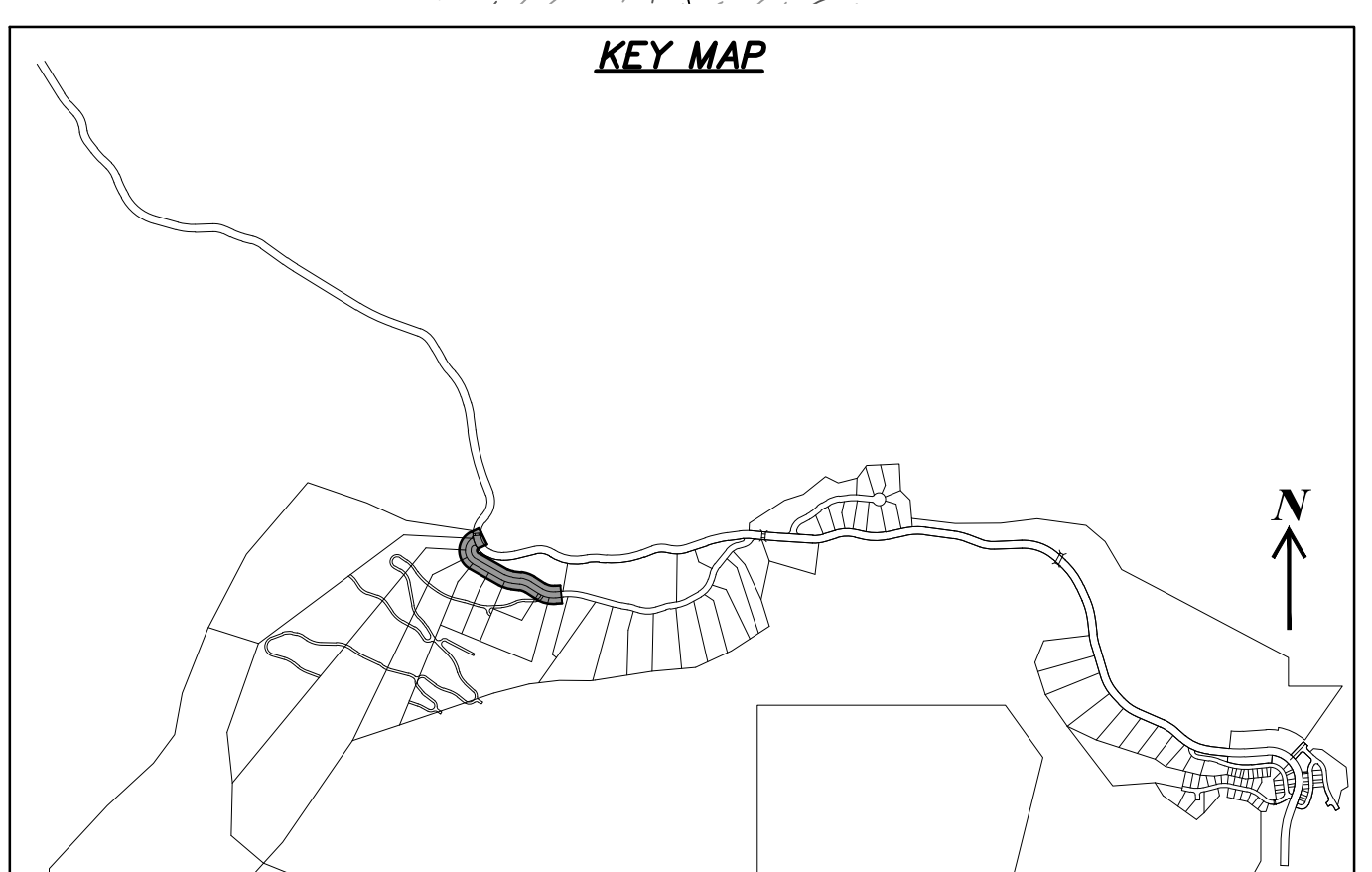
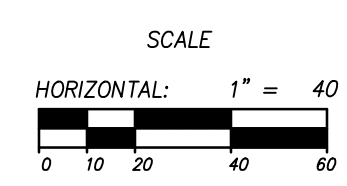


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5	15+97.31	35
6	16+07.31	35
7	17+81.00	35
8	17+91.00	35
9	18+29.20	-35
10	18+39.20	-35

**HORIZON RUN**  
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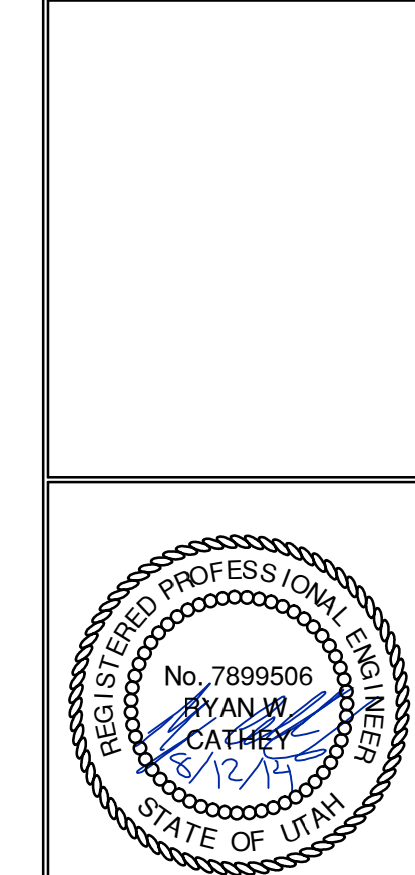
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3	RMC	7/25/2014	COUNTY REVIEW
4	RMC	8/12/2014	MAINTENANCE UPDATES
5	RMC	8/12/2014	MAINTENANCE UPDATES

**SUMMIT EDEN PHASE 1A**  
**PLAN AND PROFILE**  
**HORIZON RUN**

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC

DATE SUBMITTED: 01/07/2014

**NV5**  
 BEYOND ENGINEERING  
 6217 SOUTH STATE STREET, SUITE 200  
 801743.000 TEL. 801743.000 FAX  
 MURRAY, UT 84107  
 WWW.NV5.COM



SHEET NUMBER  
**2.00**

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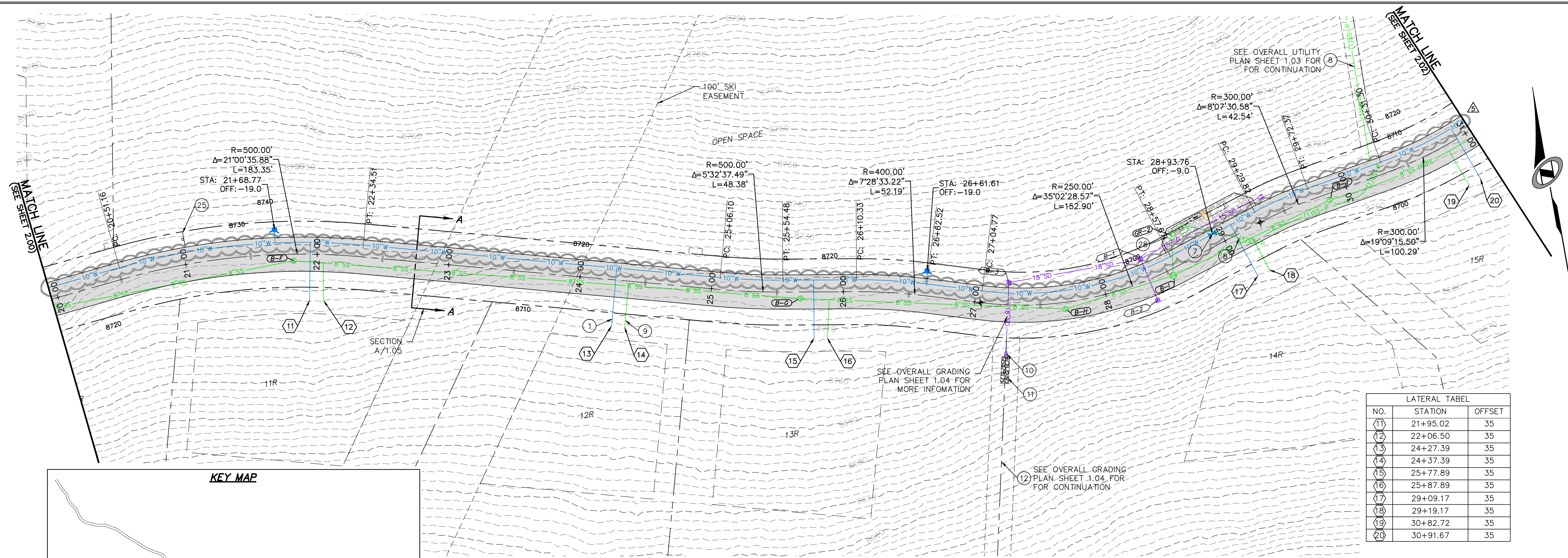
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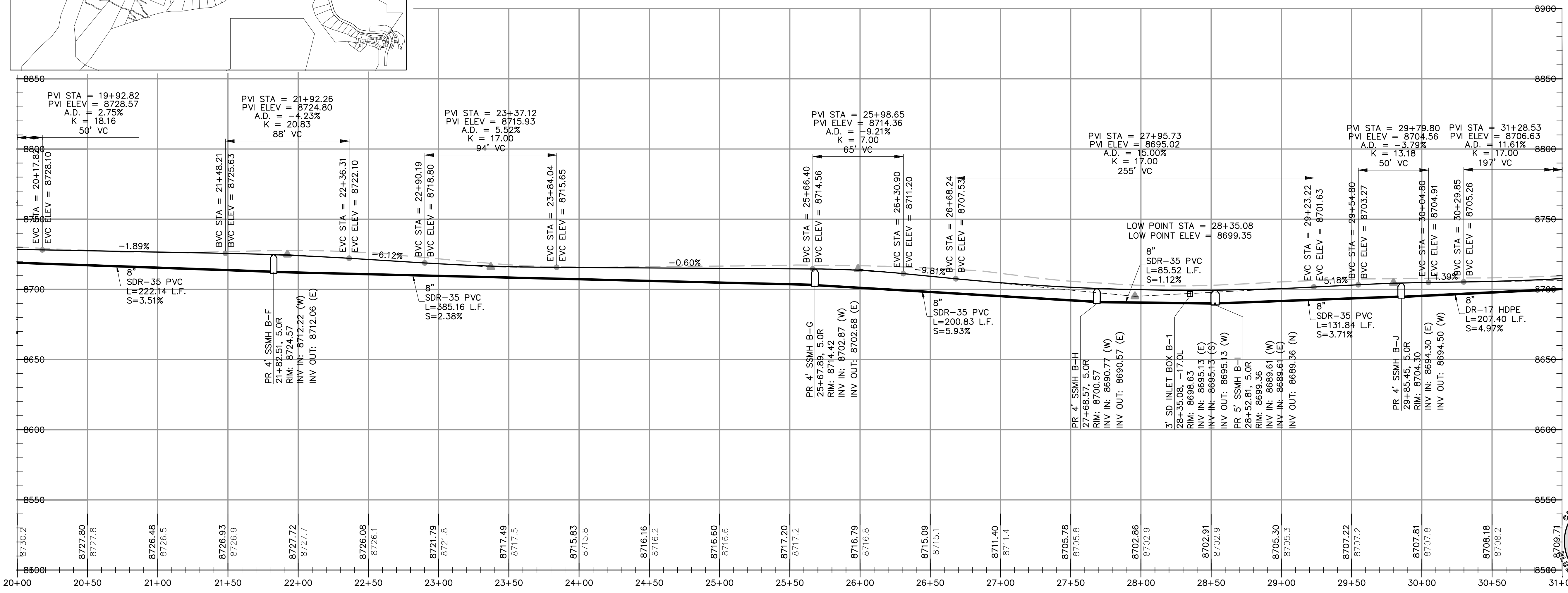
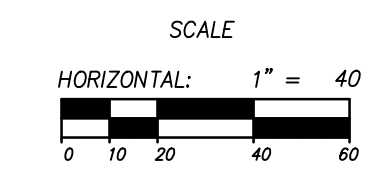
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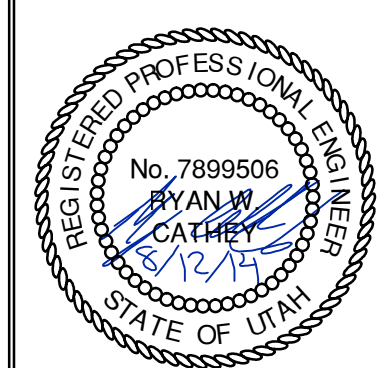
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 STA: 20+00.00 TO 31+00.00



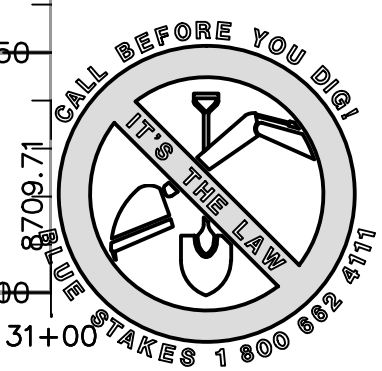
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2	RMC	5/27/2014	WEBER COUNTY REVIEW REVISIONS
3	RMC	7/25/2014	COUNTY REVIEW
4	RMC	7/25/2014	MAINTENANCE UPDATES
5	RMC	8/12/2014	MAINTENANCE UPDATES

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC  
 DATE SUBMITTED: 01/07/2014

**SUMMIT EDEN PHASE 1A**  
**PLAN AND PROFILE**  
**HORIZON RUN**

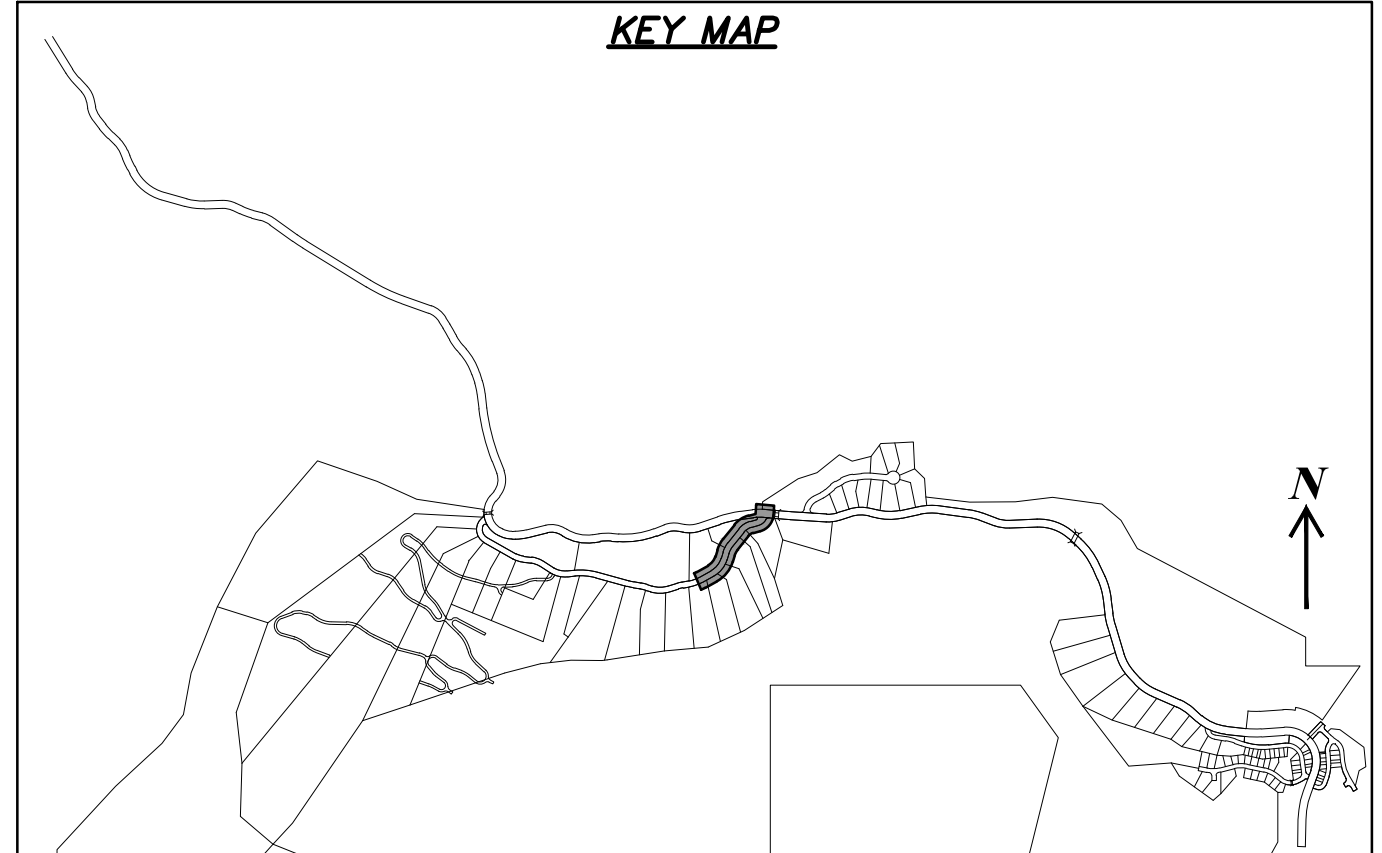
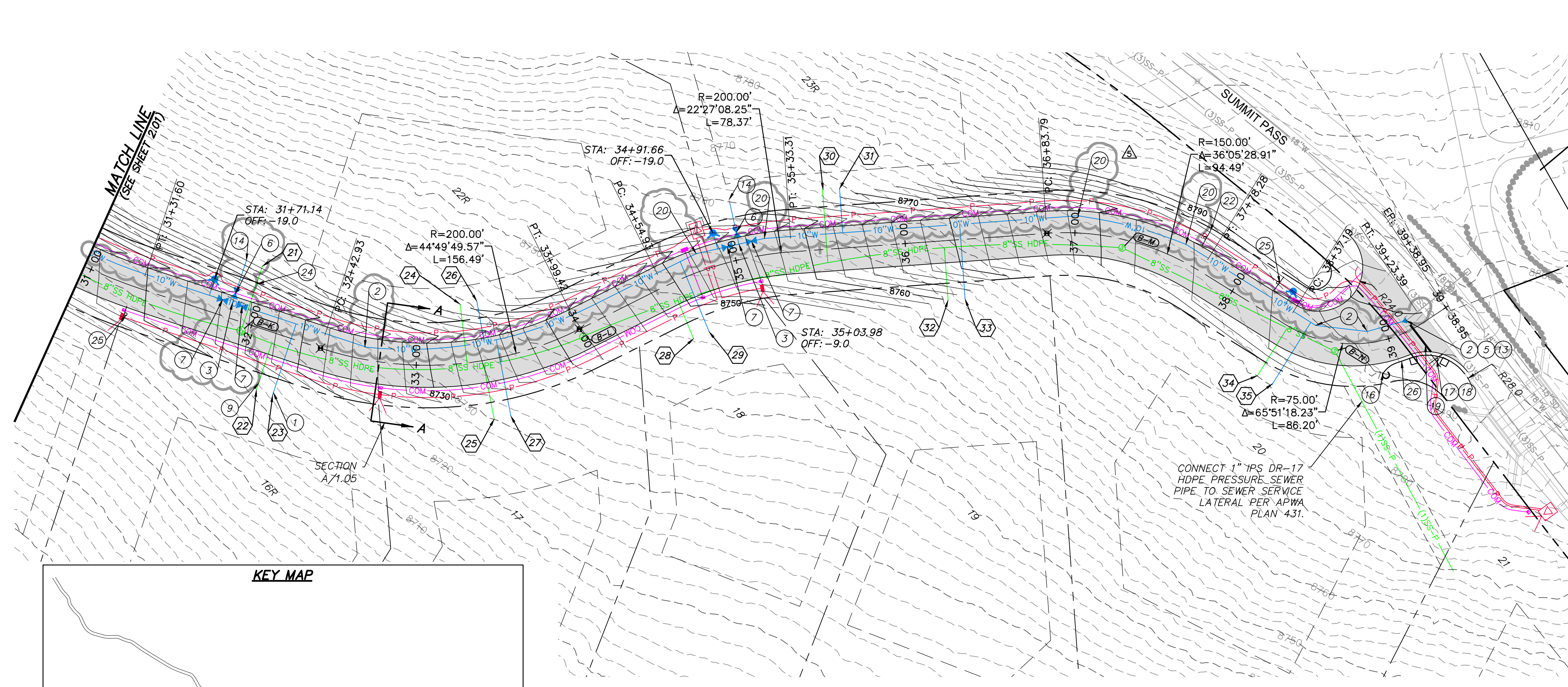


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**SLB079306**



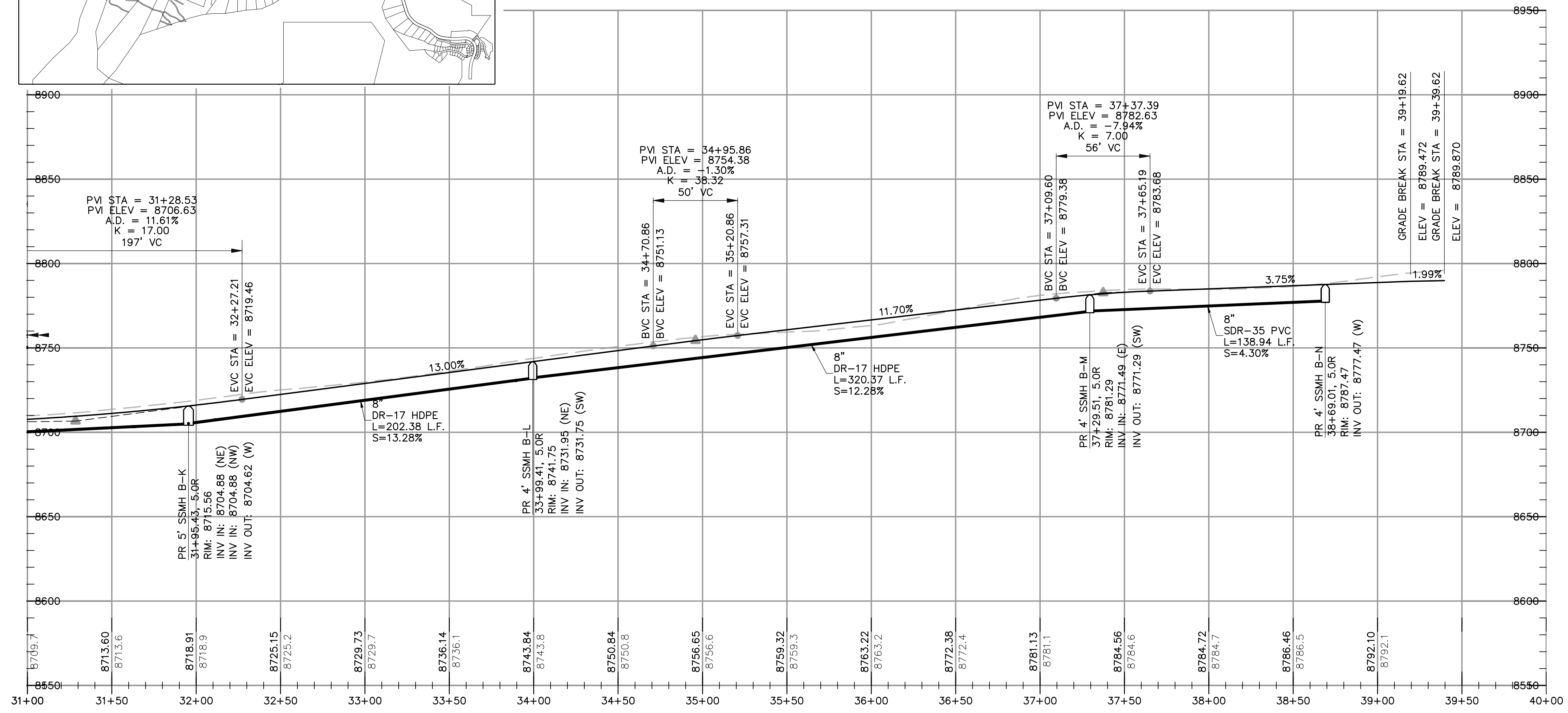
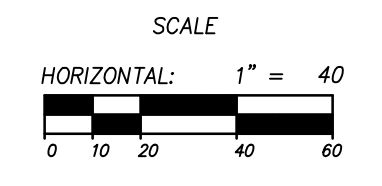
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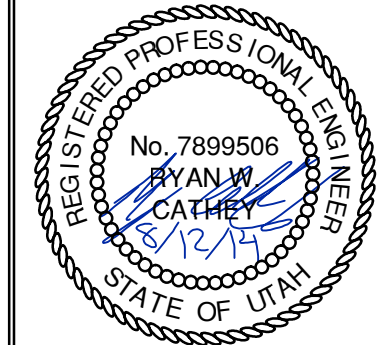
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26	33+42.30	-35
27	33+48.86	35
28	34+57.42	35
29	34+69.54	35
30	35+54.12	-35
31	35+64.12	-35
32	36+23.05	35
33	36+33.05	35
34	38+38.55	35
35	38+45.38	35

**HORIZON RUN**  
 STA: 31+00.00 TO 39+39.62



NO.	BY	DATE	REVISIONS
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3	RMC	8/7/2014	SEBEE COUNTY REVIEW REVISIONS
4	RMC	7/25/2014	COUNTY REVIEW
5	RMC	8/12/2014	FINAL/NOV UPDATES

**SUMMIT EDEN PHASE 1A**  
**PLAN AND PROFILE**  
**HORIZON RUN**

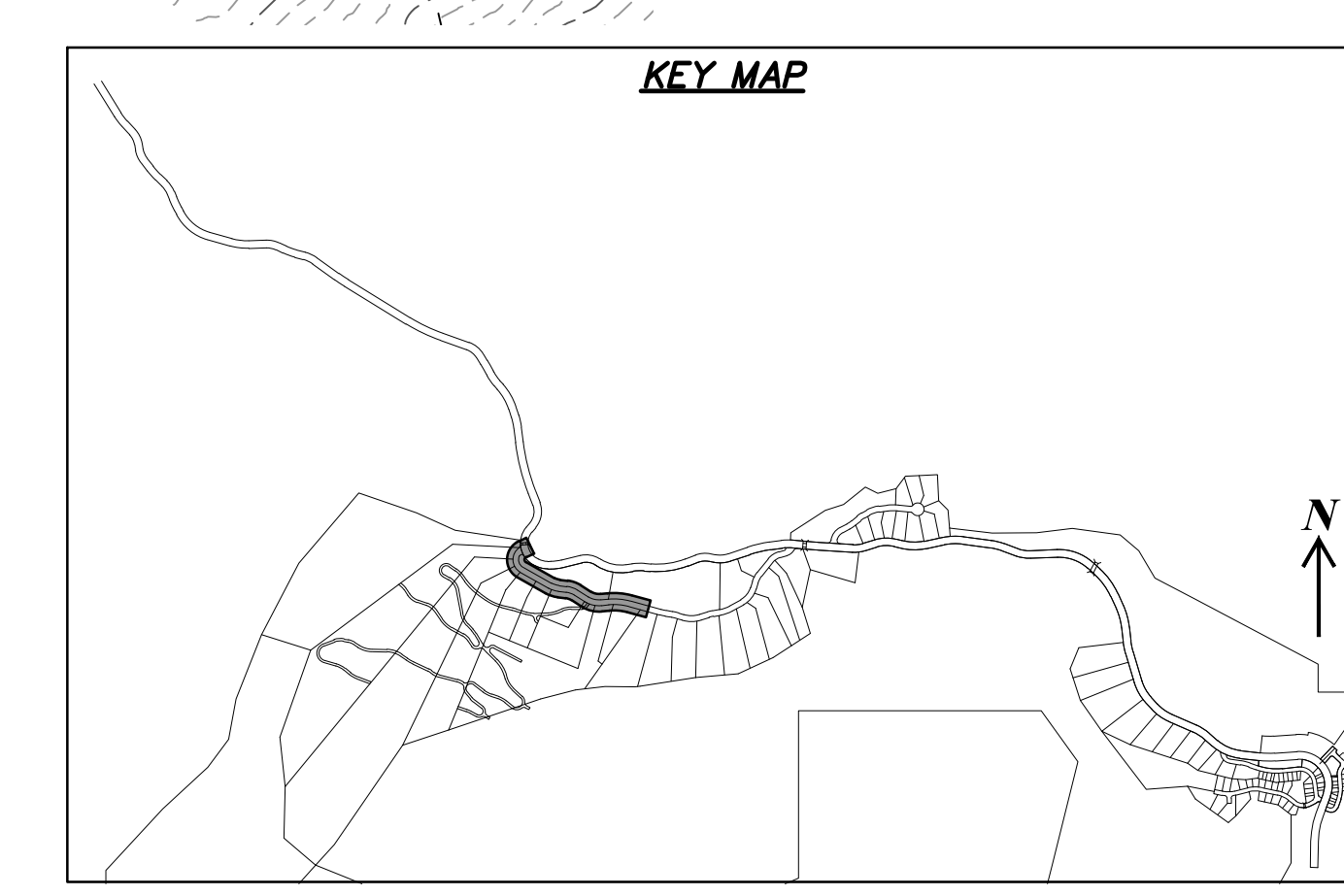
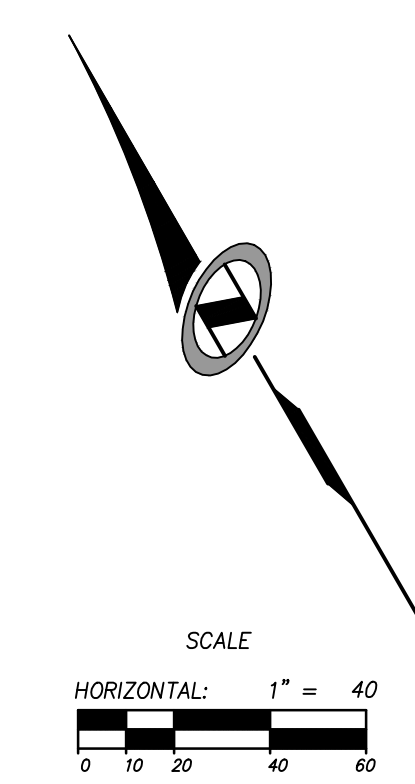
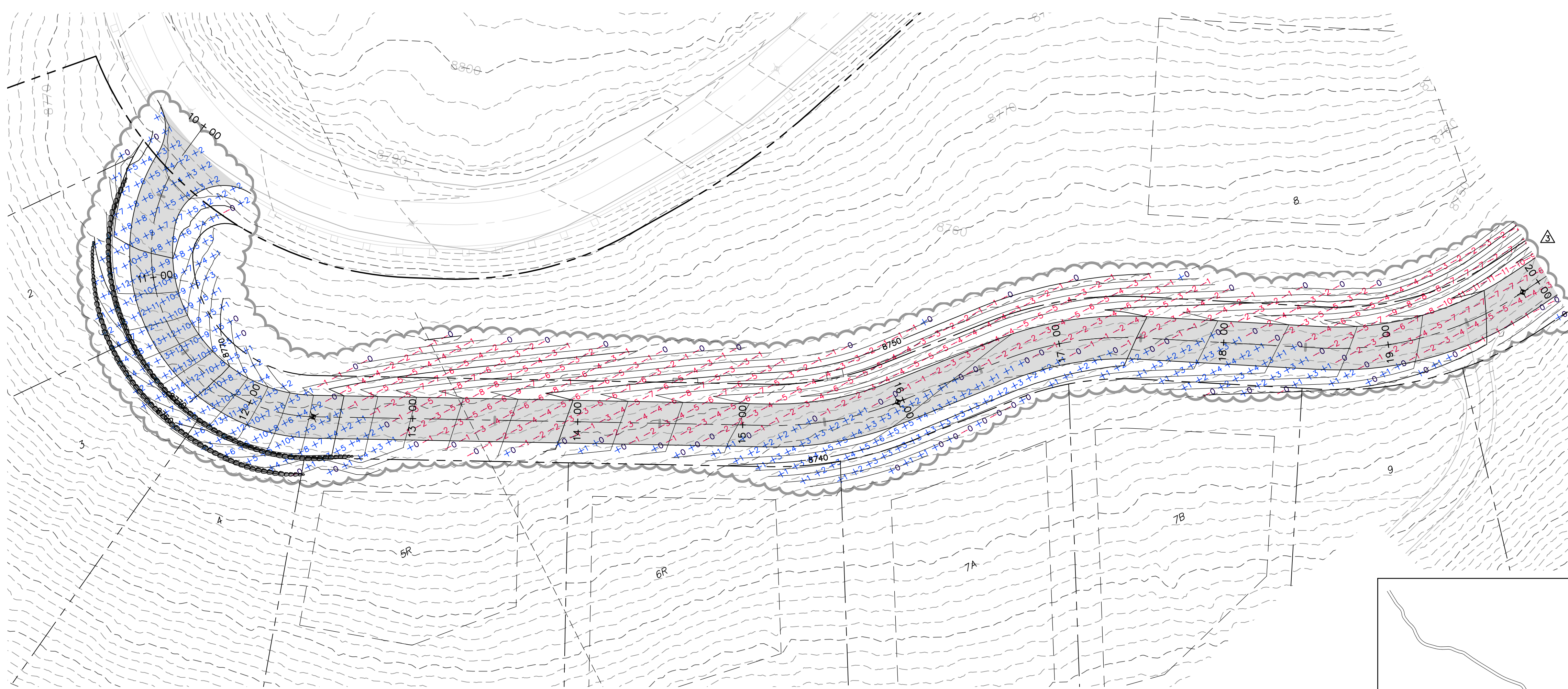


The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans unless they are made by the engineer and must be approved by the preparer of these plans.

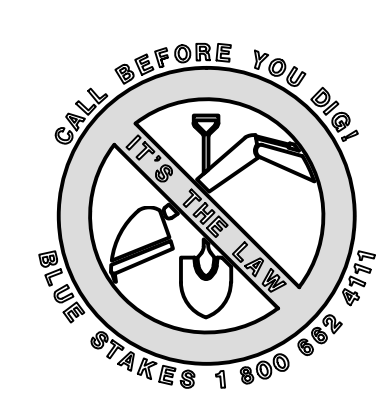
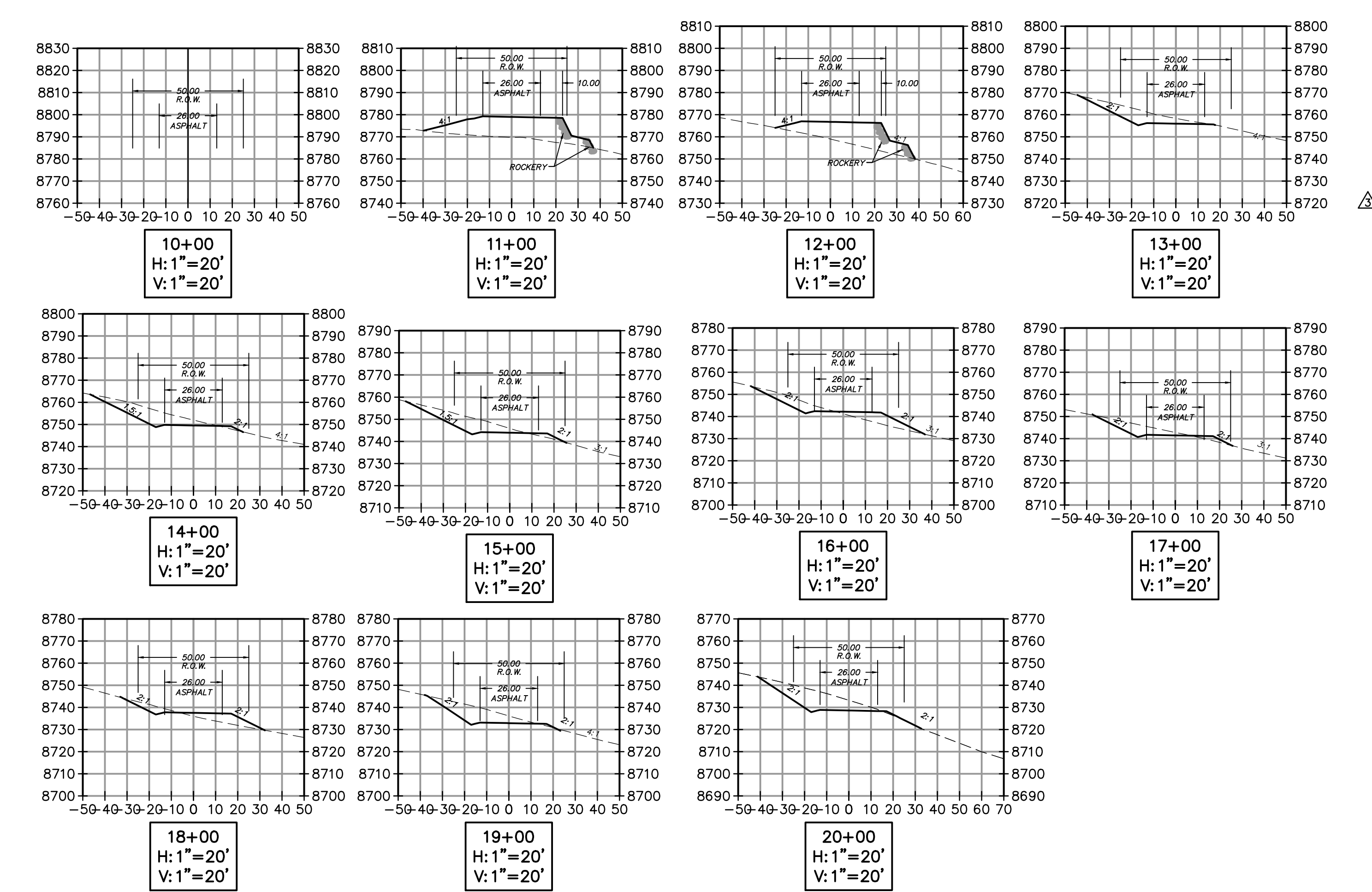
CAUTION



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**HORIZON RUN**  
 STA: 10+00.00 TO 20+00.00



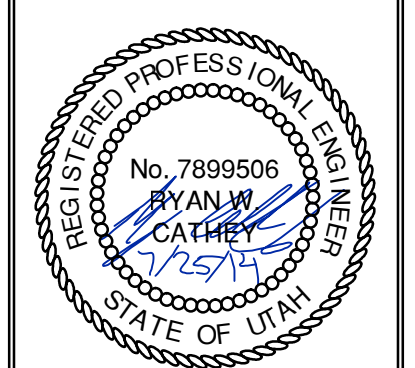
NO.	BY	DATE	REVISIONS
1	RMC	8/17/2013	ADD/NOV 1
2	RMC	5/17/2014	WEBER COUNTY REVIEW REVISIONS
3	RMC	7/25/2014	COUNTY REVIEW

CAUTION  
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**SUMMIT EDEN PHASE 1A**  
**EARTHWORK AND SECTIONS**  
**HORIZON RUN**

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

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



SHEET NUMBER  
**3.00**  
 SCALE  
 VERTICAL: 1" = 40'  
 HORIZONTAL: 1" = 40'  
 JOB NUMBER  
**SLB079306**

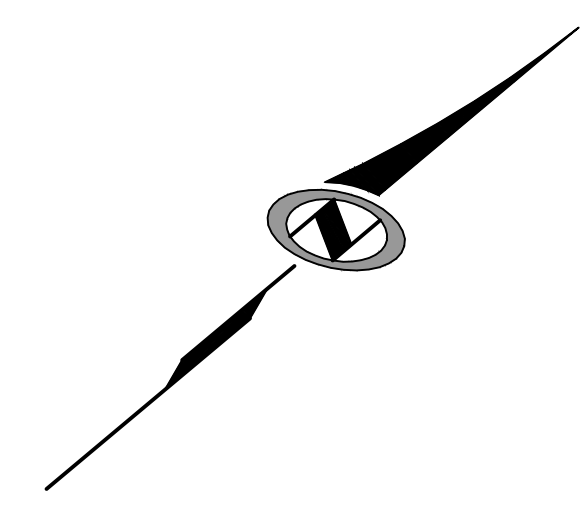
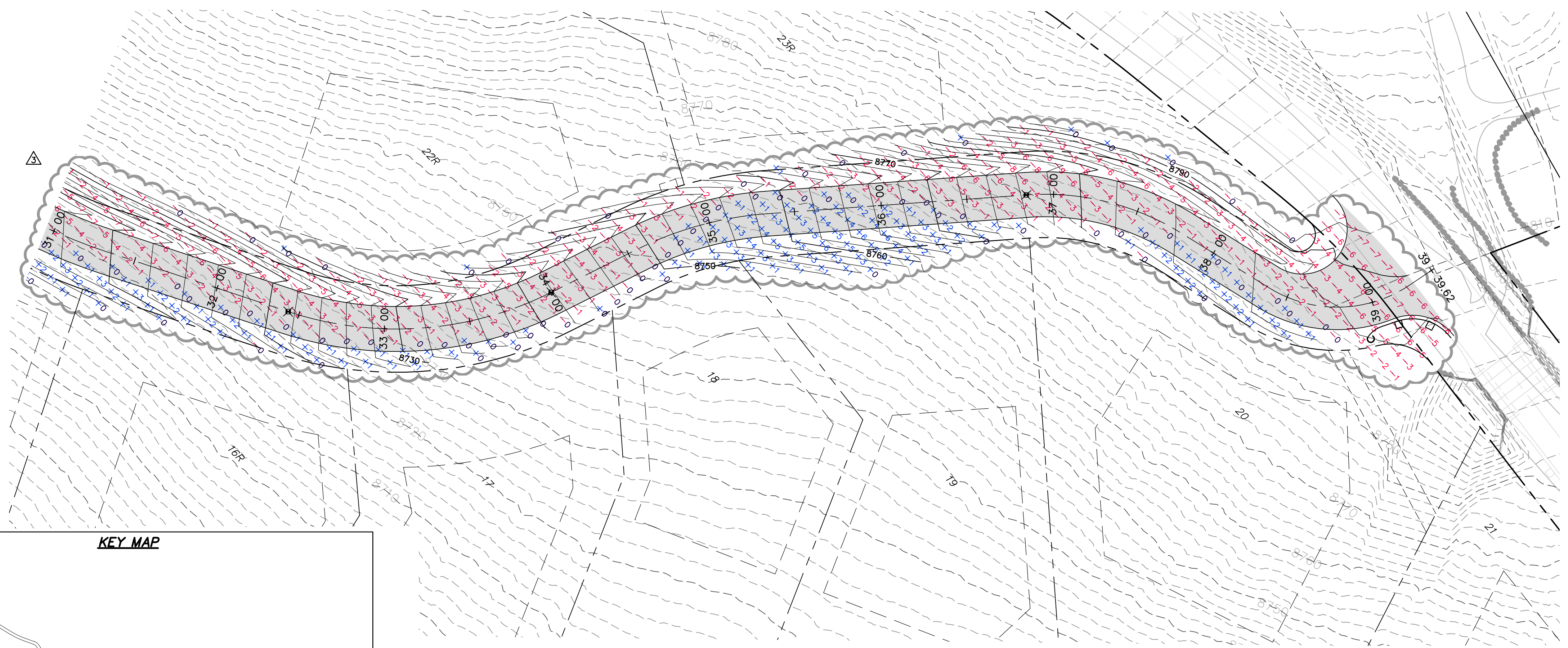
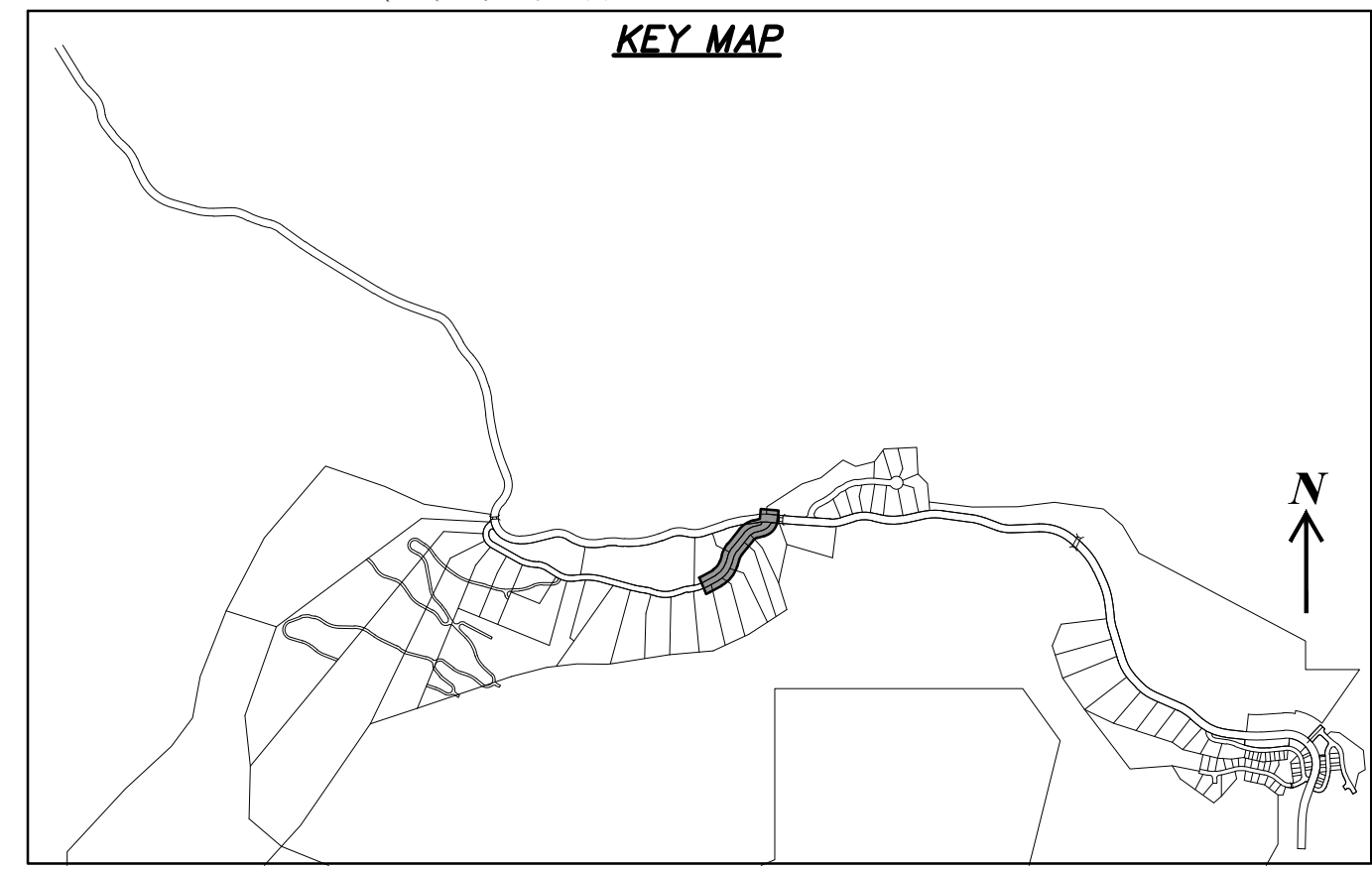
BURNINGHAM  
 XREFS:



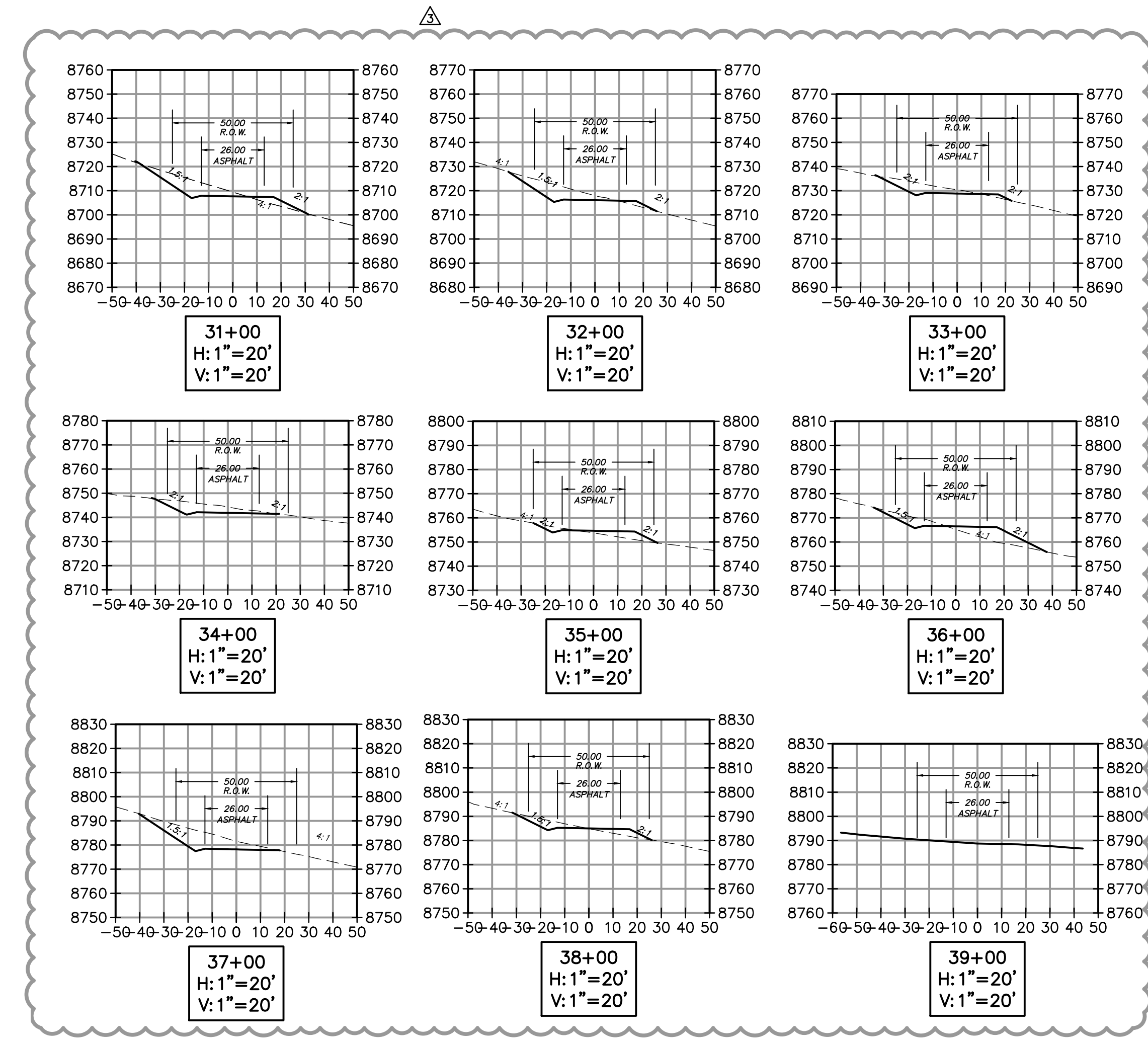
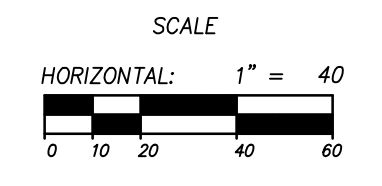




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**HORIZON RUN**  
 STA: 31+00.00 TO 39+39.62

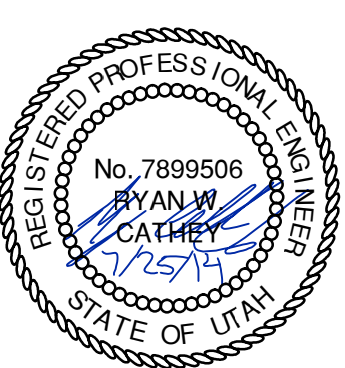


**SUMMIT EDEN PHASE 1A**  
**EARTHWORK AND SECTIONS**  
**HORIZON RUN**

NO.	BY	DATE	REVISIONS
1	RMC	8/27/2013	ADD ROW 1
2	RMC	5/27/2014	REBE COUNTY REVIEW REVISIONS
3	RMC	5/27/2014	REBE COUNTY REVIEW
4	RMC	7/25/2014	COUNTY REVIEW

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC

DATE SUBMITTED: 01/07/2014



SHEET NUMBER  
**3.02**

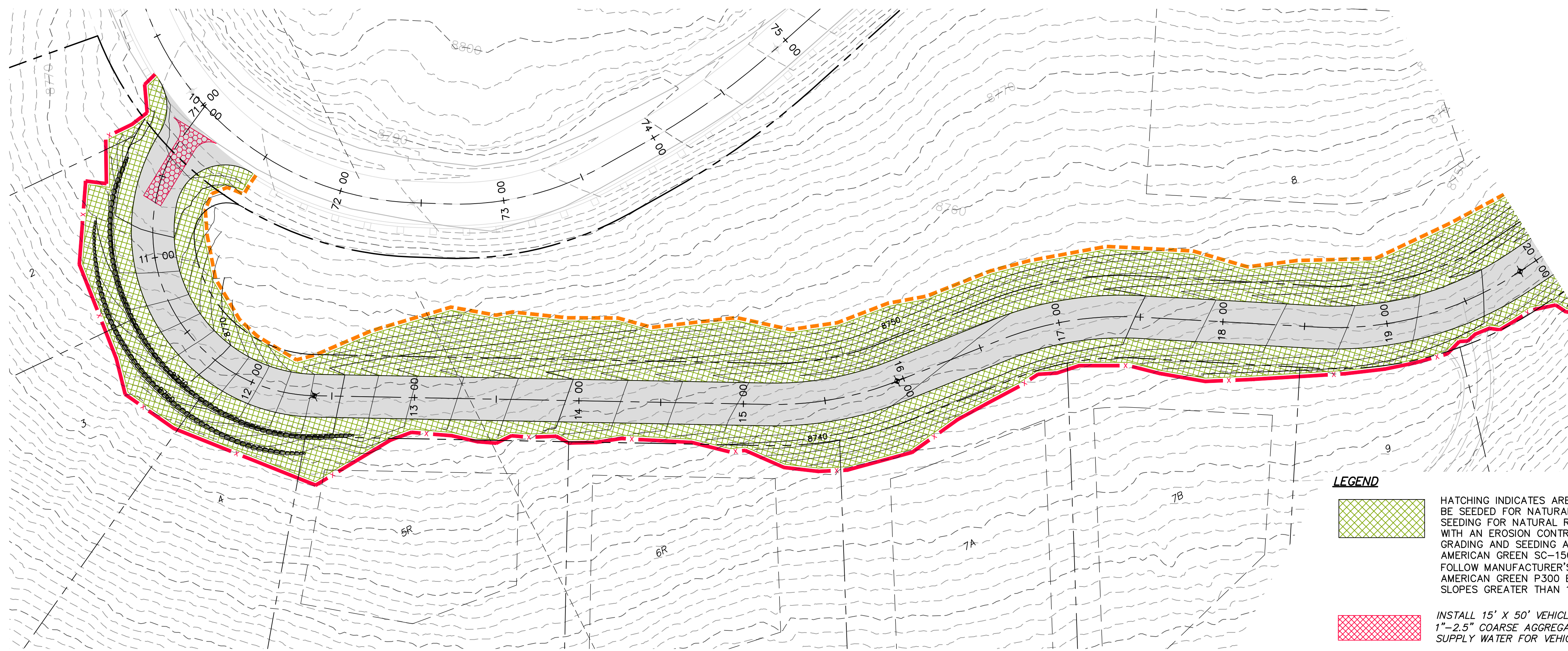
SCALE  
 VERTICAL: 1" = 40'  
 HORIZONTAL: 1" = 40'

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.

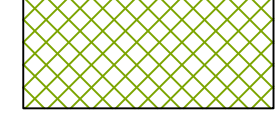
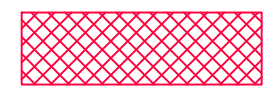
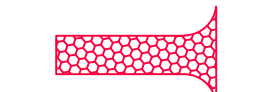





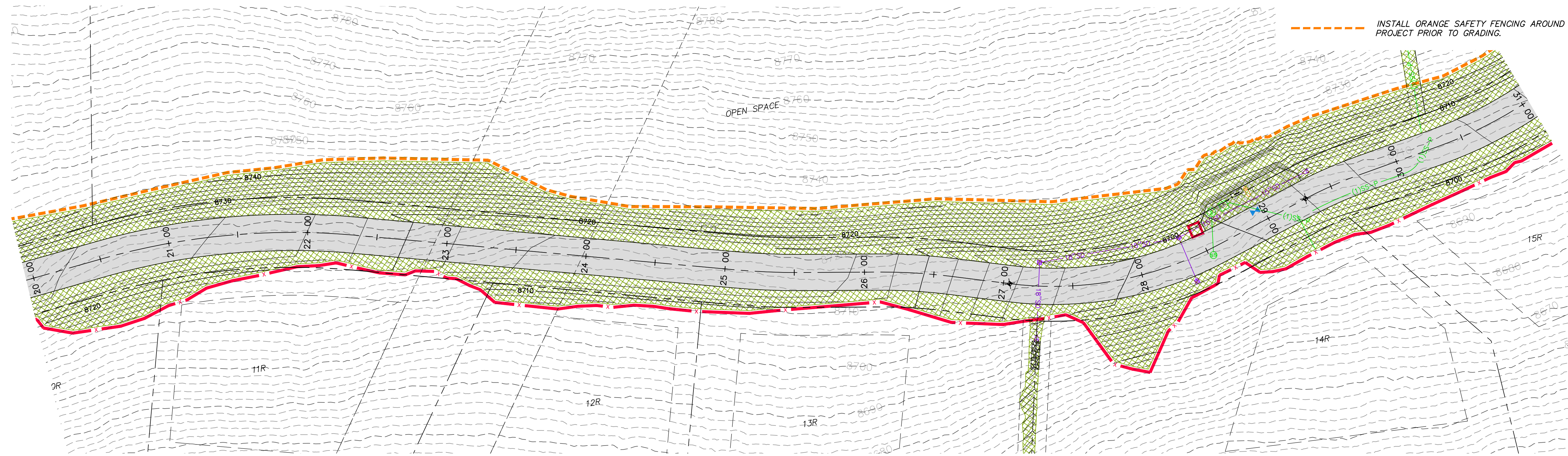
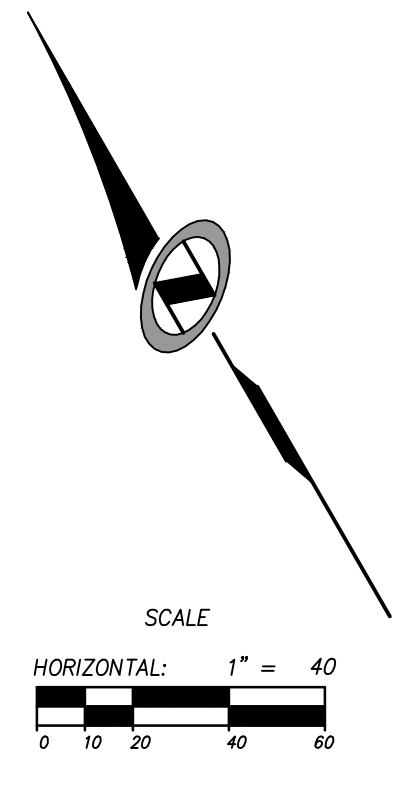


**HORIZON RUN**

STA: 10+00.00 TO 20+00.00

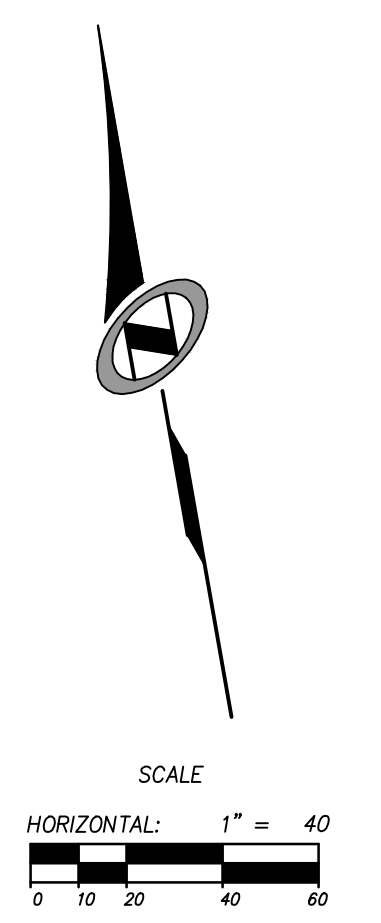
**LEGEND**

-  HATCHING INDICATES AREAS TO RECEIVE 4" TOPSOIL AND TO BE SEEDED 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

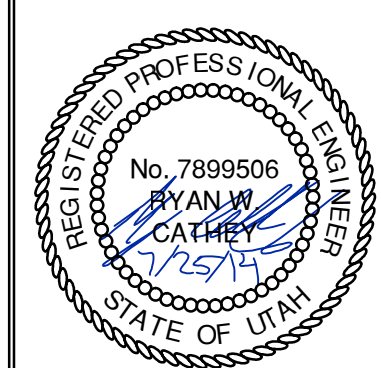


NO.	BY	DATE	REVISIONS
1	RMC	8/27/2013	ADDENDUM 1
2	RMC	5/27/2014	WEBB COUNTY REVIEW REVISIONS
3	RMC	5/27/2014	WEBB COUNTY REVIEW
4	RMC	7/25/2014	COUNTY REVIEW

CAUTION  
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**SUMMIT EDEN PHASE 1A**  
**EROSION CONTROL PLAN**  
**HORIZON RUN**

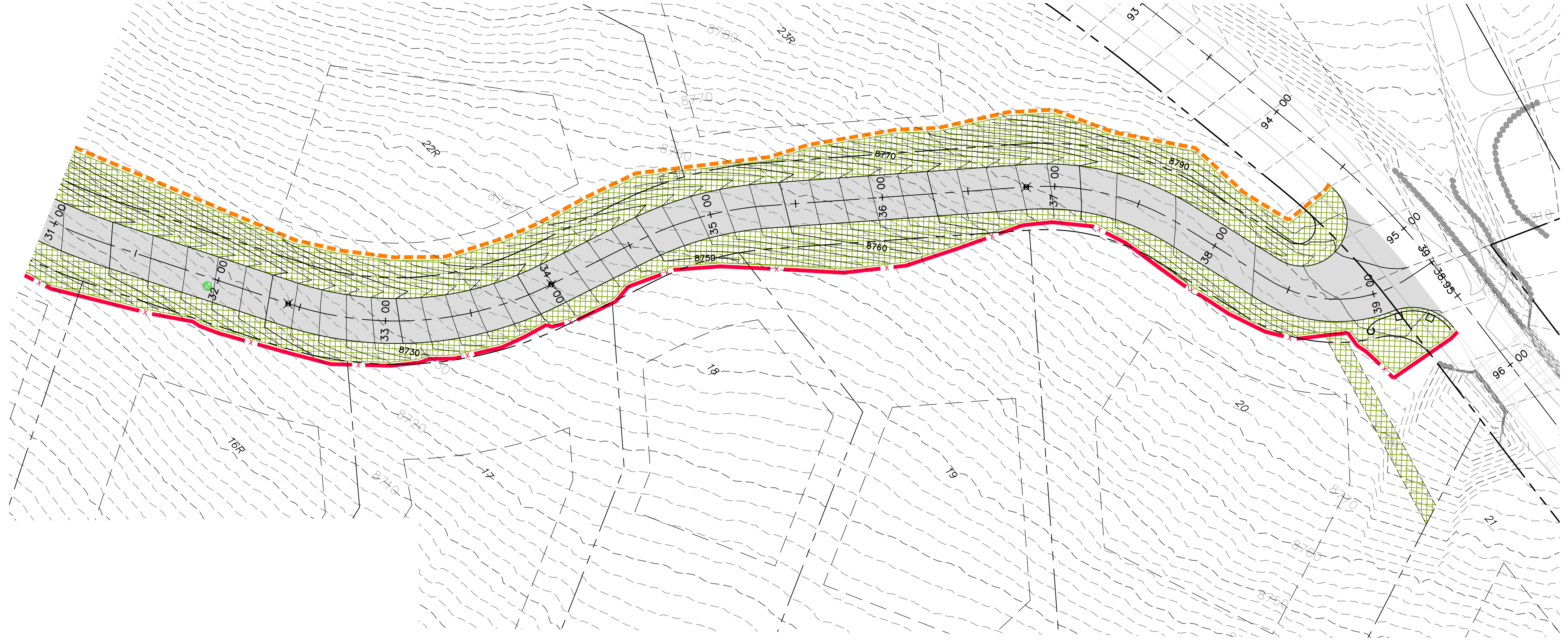
**NV5**  
 BEYOND ENGINEERING  
 5217 SOUTH STATE STREET, SUITE 200  
 MURRAY, UT 84107  
 801.743.0300 TEL. 801.743.0300 FAX  
 WWW.NV5.COM



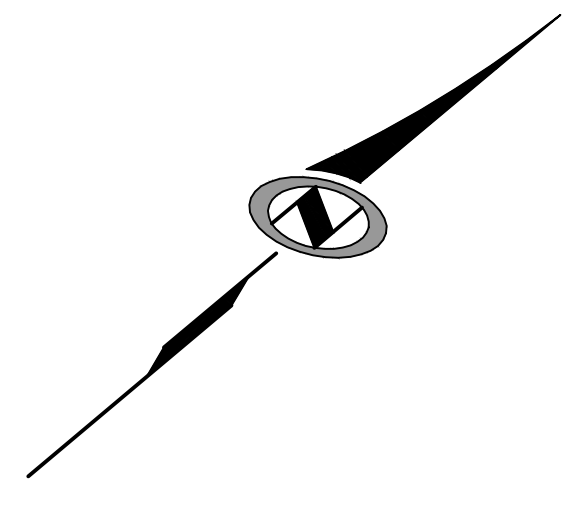
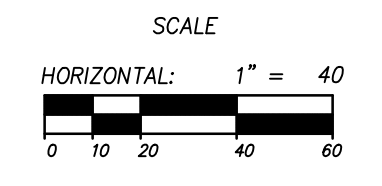
SHEET NUMBER  
**4.00**  
 SCALE  
 VERTICAL: 1" = 40'  
 HORIZONTAL: 1" = 40'  
 JOB NUMBER  
**SLB079306**

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014





**HORIZON RUN**  
 STA: 31+00.00 TO 39+39.62



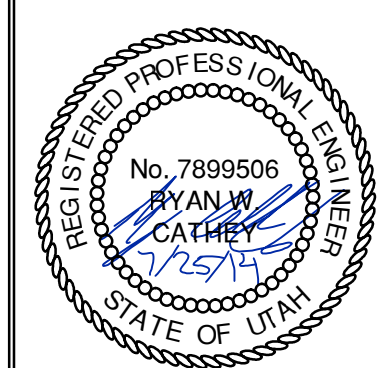
**SUMMIT EDEN PHASE 1A**  
**EROSION CONTROL PLAN**  
**HORIZON RUN**

NO.	BY	DATE	REVISIONS
1	RMC	8/27/2013	ADD/NOAM 1
2	RMC	5/27/2014	WEBER COUNTY REVIEW REVISIONS
3	RMC	5/27/2014	WEBER COUNTY REVIEW REVISIONS
4	RMC	7/25/2014	COUNTY REVIEW

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PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

**NV5**  
 BEYOND ENGINEERING  
 627 SOUTH STATE STREET, SUITE 200  
 801743.000 TEL 801743.000 FAX  
 MURRAY, UT 84107  
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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**

WEIGHTS		
HEIGHT	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 AHSIFD 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  
 www.oldcastleprecast.com

**3' x 3' Basin**  
 FILE NAME: 210D1C3X3CB000  
 ISSUE DATE: 1/08  
 Copyright © 2008

**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" DIA. 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

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  
 www.oldcastleprecast.com

**3' x 3' Basin**  
 FILE NAME: 210D1C3X3CB000  
 ISSUE DATE: 1/08  
 Copyright © 2008

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

**Oldcastle Precast**  
 801 West 12th Street, Ogden, Utah 84404  
 Phone: 801-399-1171 Fax: 801-392-7849  
 www.oldcastleprecast.com

**Flared End**  
 FILE NAME: 210DPERNDFLARE  
 ISSUE DATE: 5/2008  
 Copyright © 2008

**Flared End Section**  
 for Round Pipe  
 Copyright © 2008

Diam.	Slope	X	Y	A						
				B	C	E	F	G		
12"	2.4 : 1	4"	24"	48%	72%	24"	3"			
15"	2.4 : 1	6"	27"	46%	73%	30"	2 1/2"			
18"	2.3 : 1	9"	29"	46%	73%	36"	2 1/2"			
24"	2.5 : 1	12"	30"	43%	73%	48"	3"			
30"	2.5 : 1	12"	34"	43%	73%	60"	3 1/2"			
36"	2.5 : 1	15"	35"	43%	73%	72"	4"			
42"	2.5 : 1	21"	35"	43%	73%	84"	4 1/2"			
48"	2.5 : 1	24"	35"	43%	73%	96"	5"			

**I-3742 Drop Inlet**

**Oldcastle Precast**  
 801 West 12th Street, Ogden, Utah 84404  
 Phone: 801-399-1171 Fax: 801-392-7849  
 www.oldcastleprecast.com

**I-3742**  
 Est. weight 582 lbs.  
 D&L Supply

**D&L SUPPLY**  
 D&L Foundry  
 P.O. Box 13135  
 Moses Lake, WA 98837  
 Phone: (509) 765-7952  
 Fax: (509) 765-8124  
 Scale: 1" = 17 1/2"  
 Sheet Number: 1  
 Total Sheets: 1

**SINGLE GRATE**

**Oldcastle Precast**  
 801 West 12th Street, Ogden, Utah 84404  
 Phone: 801-399-1171 Fax: 801-392-7849  
 www.oldcastleprecast.com

**Catch basin**  
 Plan 315  
 Sheet 1 of 2

NO.	BY	DATE	REVISIONS
1	RHC	8/27/2013	ADD ITEM 1
2	RHC	5/27/2014	PERE COUNTY REVIEW REVISIONS
3	RHC	5/27/2014	COUNTY REVIEW
4	RHC	7/25/2014	COUNTY REVIEW

**SUMMIT EDEN PHASE 1A**  
**STORM DRAIN DETAILS**

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC  
 DATE SUBMITTED: 01/07/2014

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

REGISTERED PROFESSIONAL ENGINEER  
 No. 7899506  
 RYAN W. CATHEY  
 STATE OF UTAH

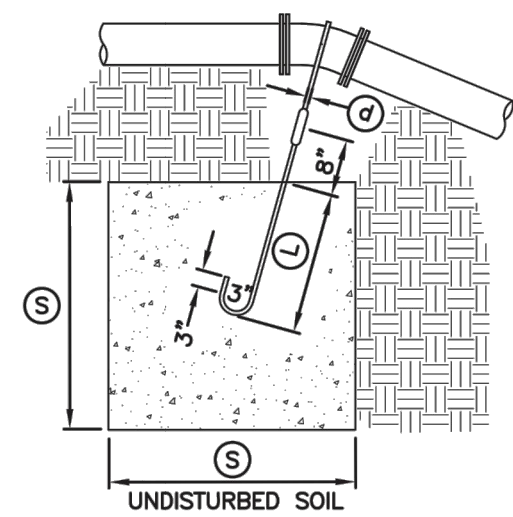
SHEET NUMBER  
**5.00**

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

JOB NUMBER  
**SLB079306**

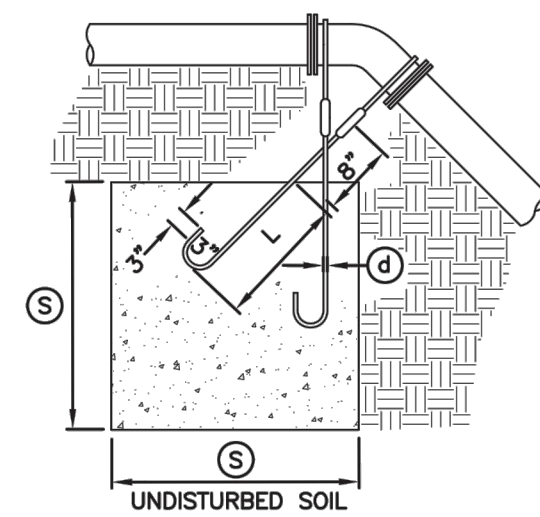






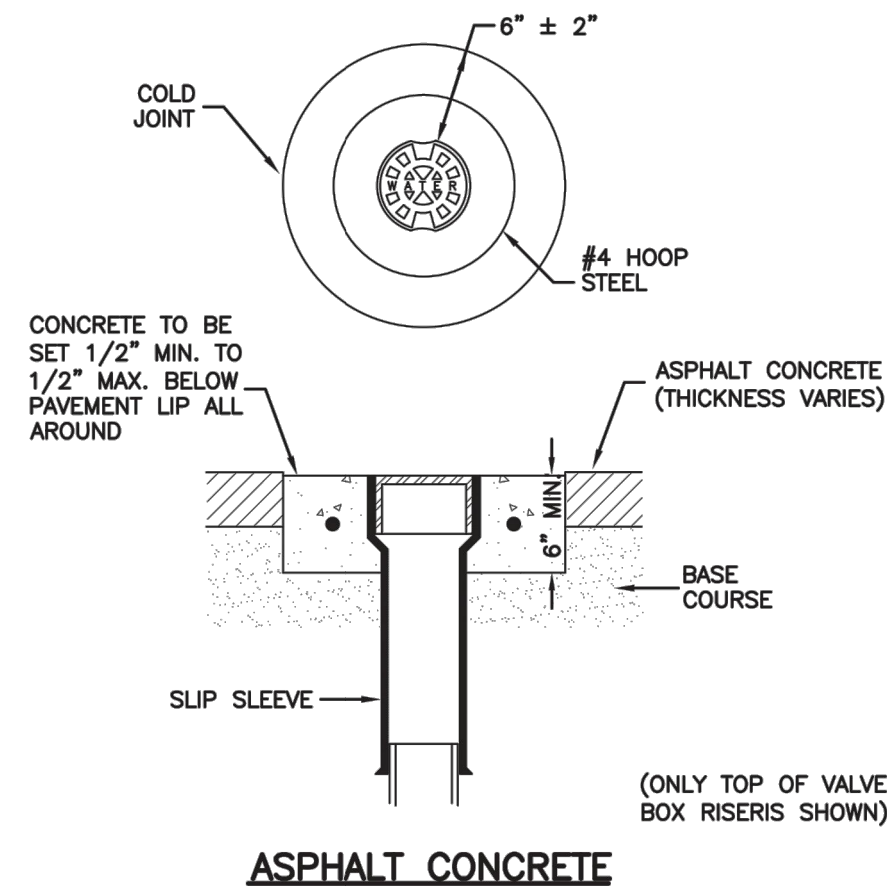
**TYPE A RESTRAINT**  
 FOR 11 1/4" - 22 1/2" VERTICAL BENDS

PIPE SIZE NOMINAL DIAMETER - INCH	VERTICAL BEND IN DEGREES	CONCRETE BLOCKING IN CUBIC FEET	SIDE OF CURVE - FEET	DIAMETER OF SHANK OR REBAR RODS - INCH	DEPTH OF ROD CONCRETE - FEET
4"	11 1/4"	8	2.0	5/8"	1.5
	22 1/2"	15.6	2.5	5/8"	2.0
6"	11 1/4"	15.6	2.5	5/8"	2.0
	22 1/2"	34.3	3.25	5/8"	2.0
8"	11 1/4"	27	3.0	5/8"	2.0
	22 1/2"	64	4.0	5/8"	2.0
12"	11 1/4"	64	4.0	5/8"	2.0
	22 1/2"	125	5.0	3/4"	3.0
16"	11 1/4"	107	4.25	7/8"	3.0
	22 1/2"	216	6.0	7/8"	3.0
20"	11 1/4"	138	5.17	1"	3.5
	22 1/2"	334	6.94	1"	4.0
24"	11 1/4"	240	6.22	1"	4.0
	22 1/2"	478	7.81	1"	4.0
30"	11 1/4"	369	7.17	1"	4.0
	22 1/2"	733	9.02	1"	4.0

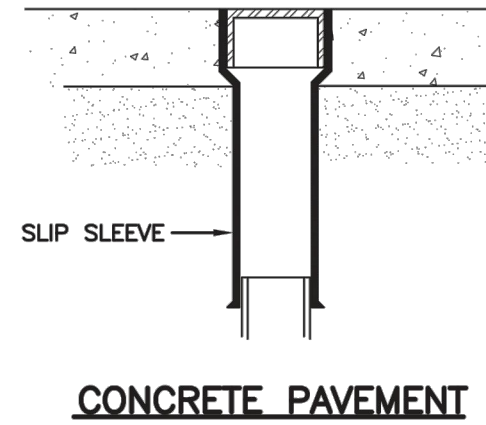


**TYPE B RESTRAINT**  
 FOR 45° VERTICAL BENDS

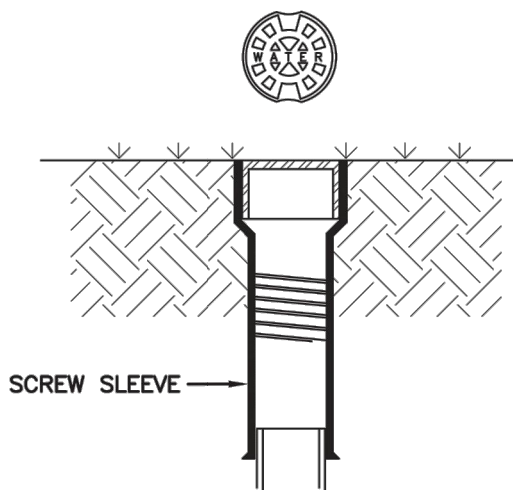
PIPE SIZE NOMINAL DIAMETER - INCH	VERTICAL BEND IN DEGREES	CONCRETE BLOCKING IN CUBIC FEET	SIDE OF CURVE - FEET	DIAMETER OF SHANK OR REBAR RODS - INCH	DEPTH OF ROD CONCRETE - FEET
4"	45°	1	3.0	5/8"	2.0
6"		2.37	4.0	5/8"	2.5
8"		3.97	4.75	5/8"	3.0
12"		9.04	6.25	5/8"	4.0
16"		17.24	7.75	3/4"	4.0
20"		26.52	9.25	3/4"	4.0
24"		37.82	10.07	3/4"	4.0
30"		58.26	11.63	3/4"	4.0



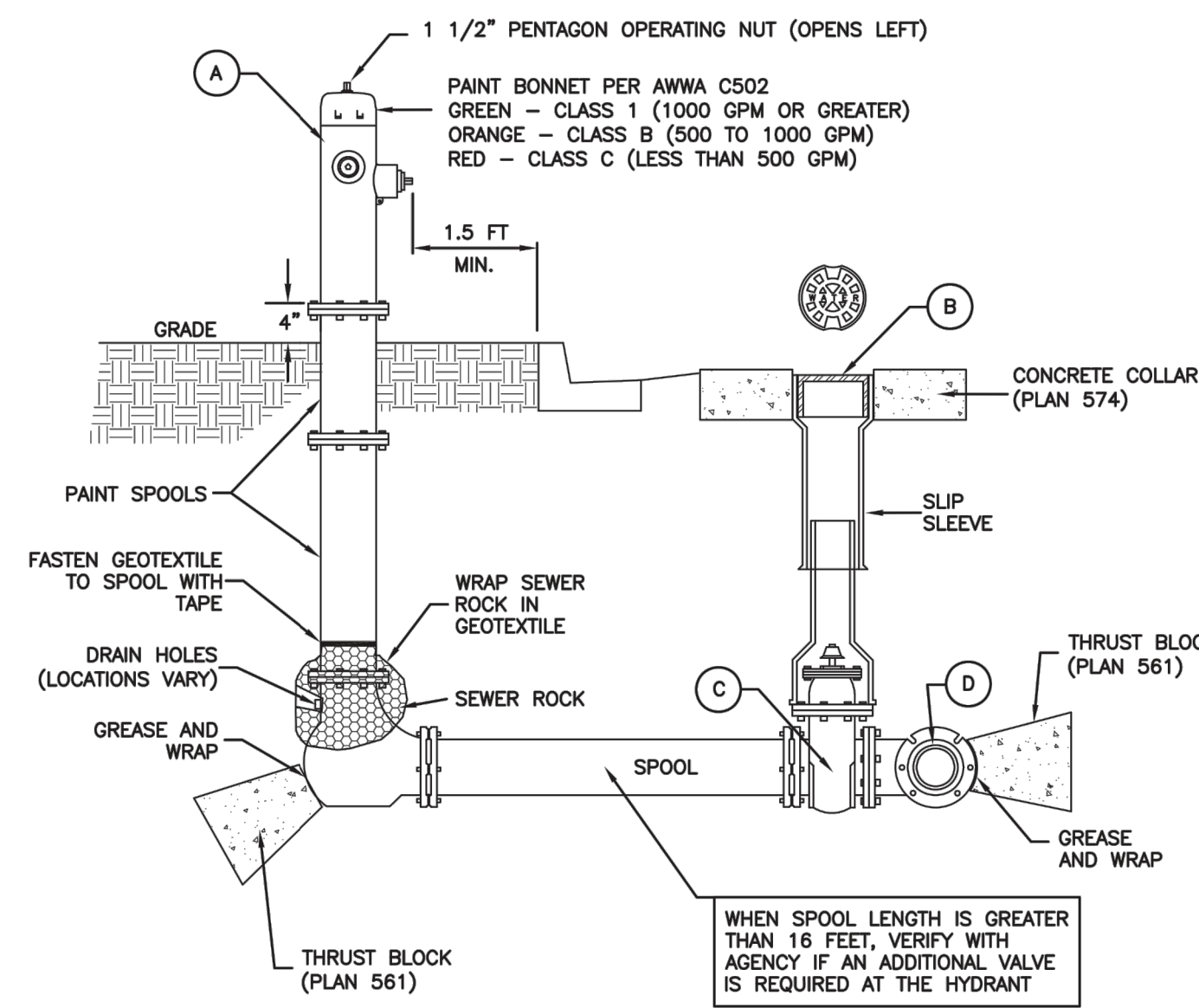
**ASPHALT CONCRETE**



**CONCRETE PAVEMENT**



**LANDSCAPED AREA**

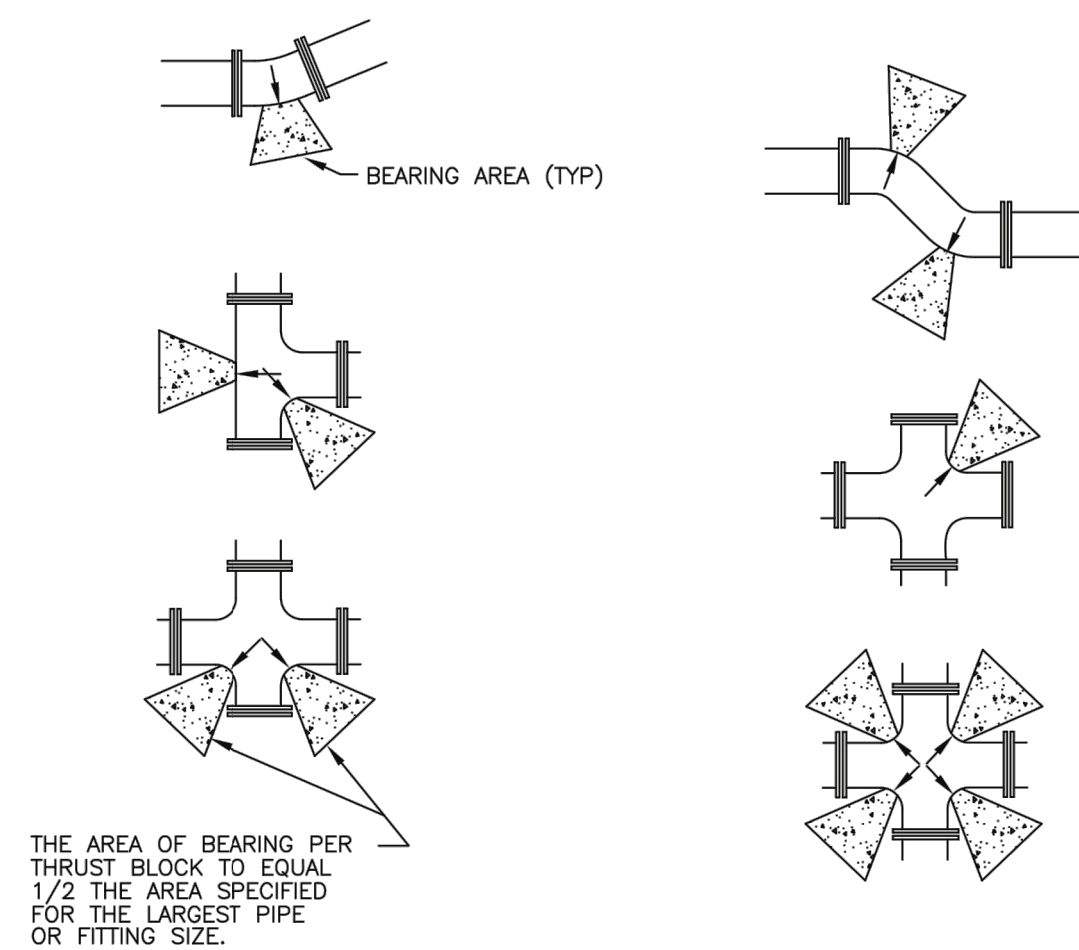


No.	ITEM	DESCRIPTION
(A)	FIRE HYDRANT	AWWA C502
(B)	VALVE BOX WITH LID	2-PIECE CAST IRON
(C)	GATE VALVE WITH 2" X 2" NUT	AWWA C509
(D)	TEE WITH 125 # FLANGE	AWWA C110

\* FURNISHED BY UTILITY AGENCY

**SECTION**

Plan 562  
 April 1997 269  
**Tie-down thrust restraints**



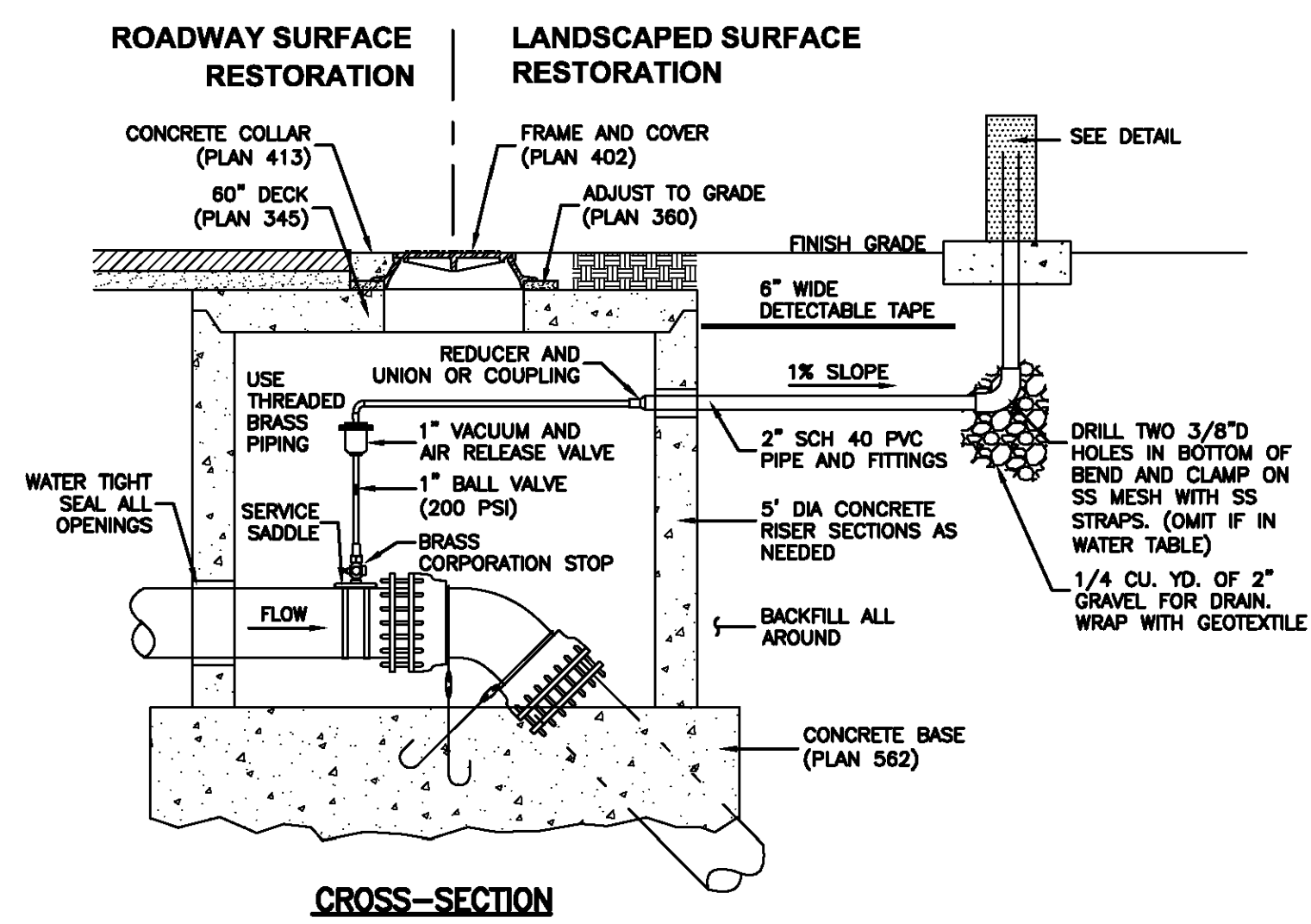
SIZE OF PIPE	TEES, VALVES, DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	2	3	2	2	2
6"	4	5.5	3	1.5	1
8"	6.5	9.5	5	2.75	1.5
12"	14	20	11	5.5	3
14"	19	26.5	14.5	7.5	4
16"	24	34	18.5	9.5	6
20"	27	52	28.5	14.5	16
24"	53	74	41	21	53
30"	81	114	62	32	16

**Direct bearing thrust block**

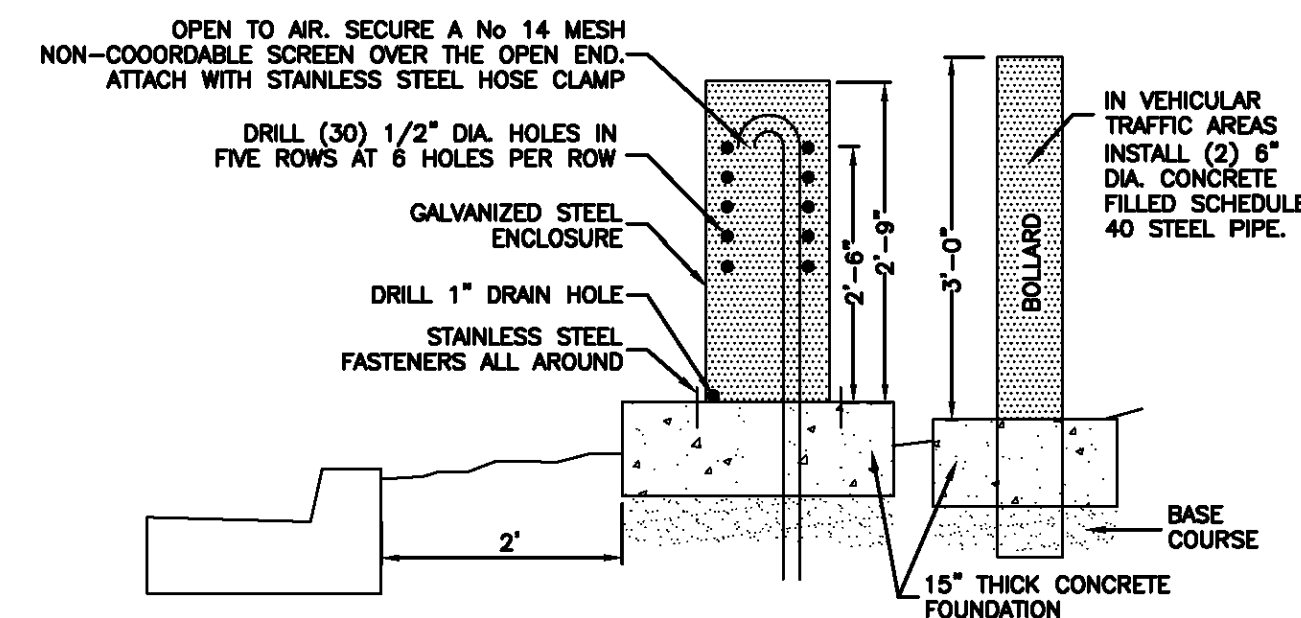
April 1997 239

Plan No. 561

Plan 574  
 August 2010 277  
**Cover collar for water valve box**



**CROSS-SECTION**



**DETAIL**

**Air release assembly**

February 2011 279

Plan 575

Plan 511  
 February 2011 237  
**Fire hydrant with valve**

**SUMMIT EDEN PHASE 1A**  
**WATER DETAILS**

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

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

REGISTERED PROFESSIONAL ENGINEER  
 No. 7899506  
 RYAN W. CATHRYN  
 STATE OF UTAH

SHEET NUMBER  
**5.01**

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

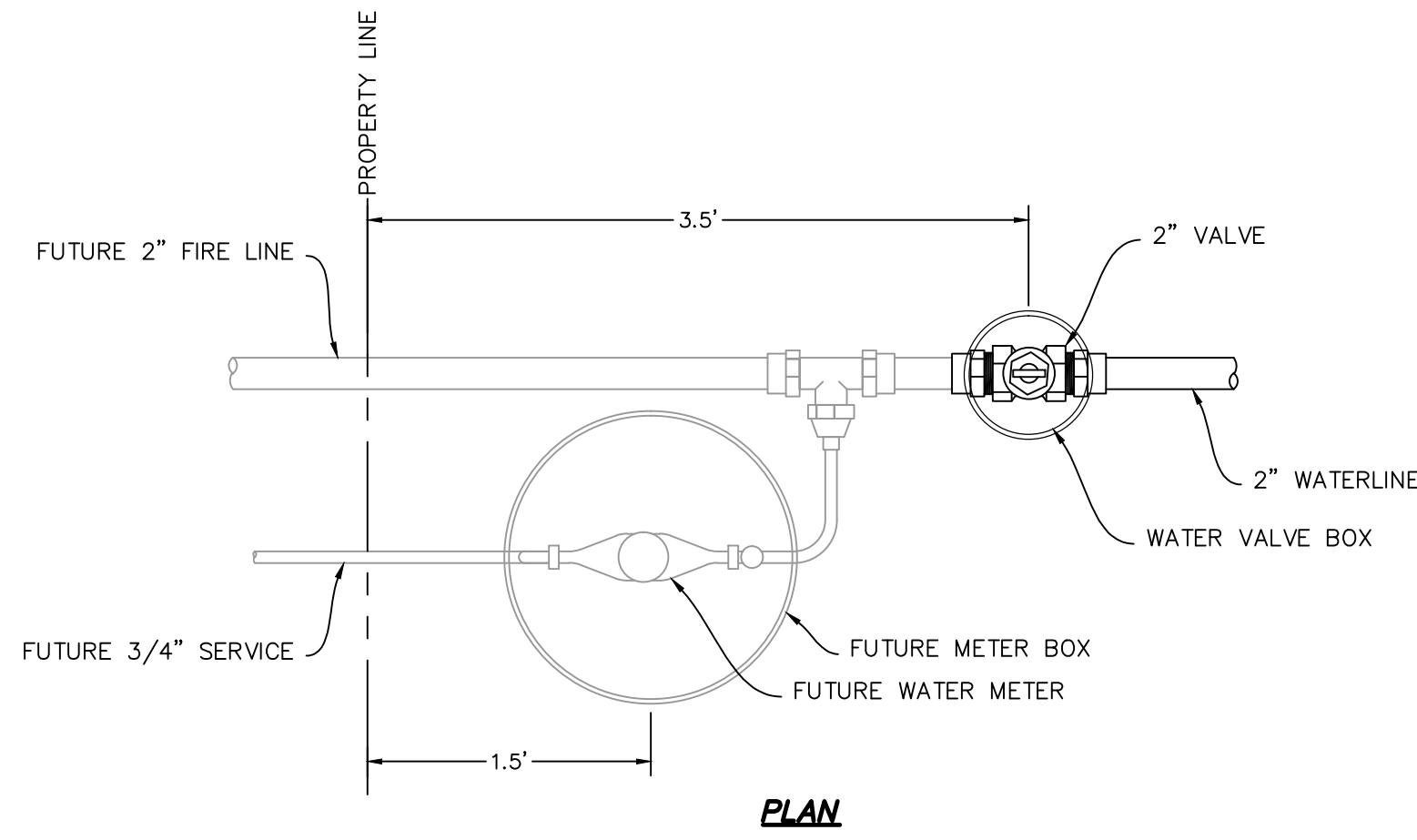
JOB NUMBER  
**SLB079306**



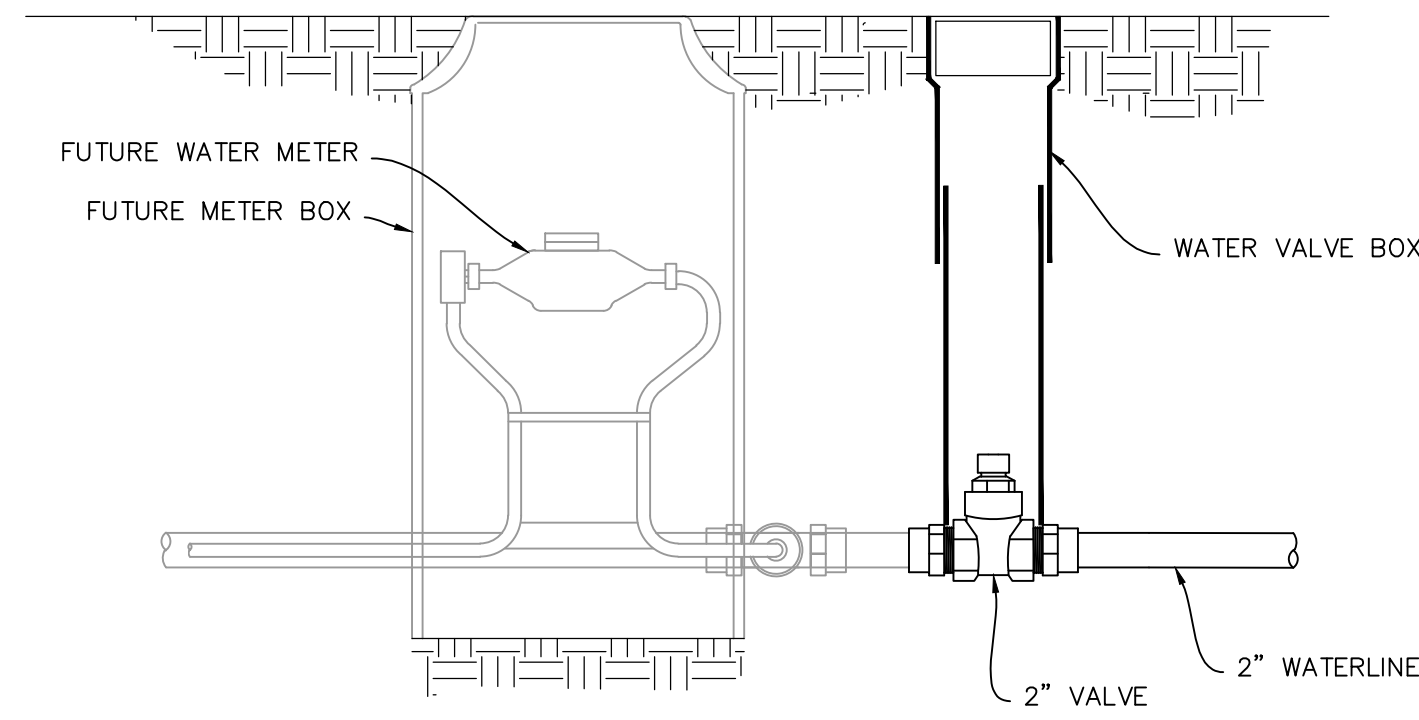
NO. BY DATE REVISIONS  
 1 RWC 8/27/2013 ADDITION 1  
 2 RWC 5/27/2014 REBAR COUNTY REVIEW REVISIONS  
 3 RWC 5/27/2014 COUNTY REVIEW  
 4 RWC 7/25/2014 COUNTY REVIEW

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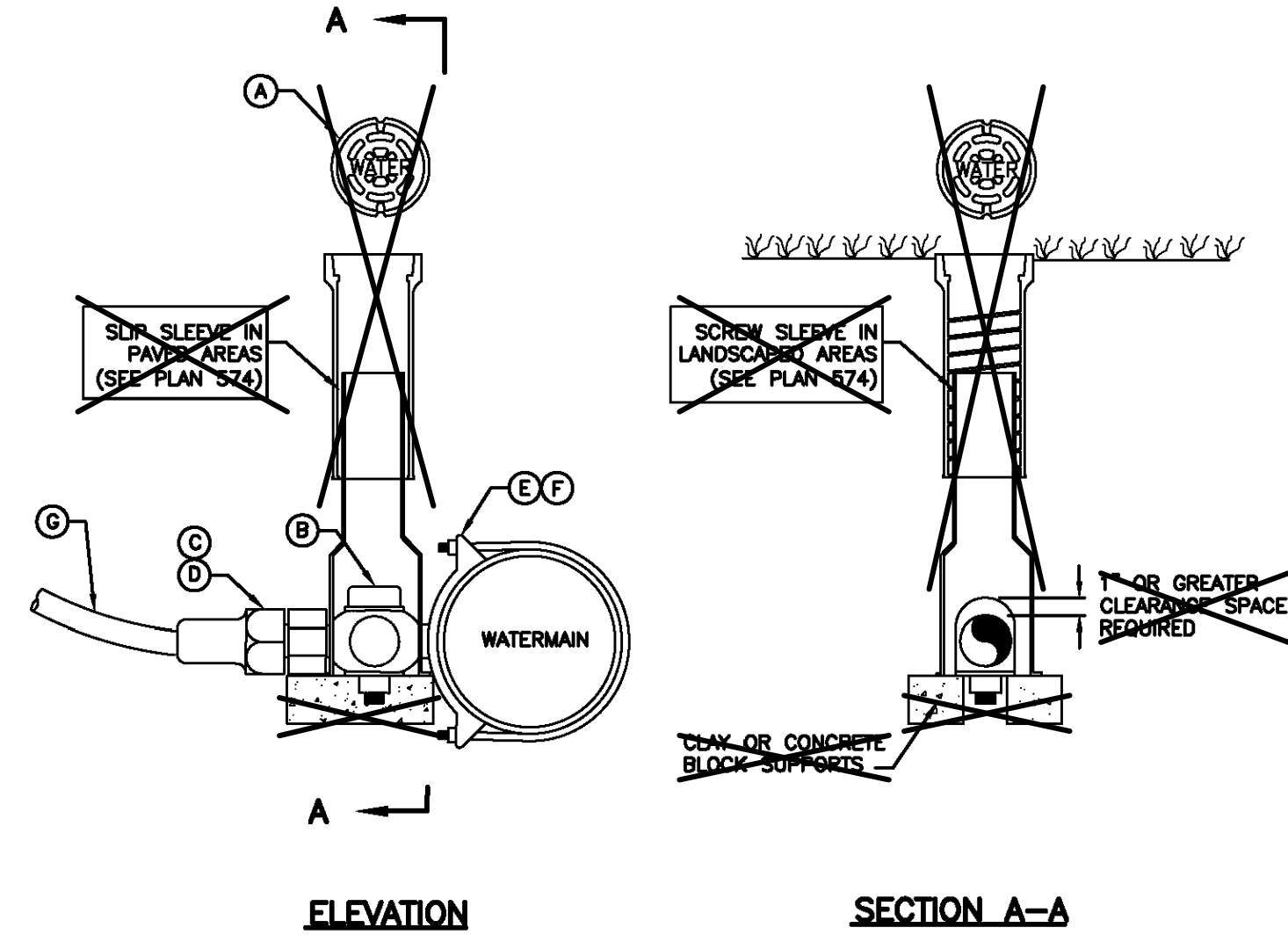
PLAN



SECTION

NOTE:  
 FUTURE SIZES ARE PRELIMINARY.  
 ACTUAL SIZE TO BE DETERMINED  
 BY BUILDING DESIGNER

**WATER LATERAL DETAIL**  
 NO SCALE



ELEVATION

SECTION A-A

LEGEND			
No.	*	ITEM	DESCRIPTION
(A)		VALVE BOX WITH LID	2-PIECE CAST IRON
(B)		CORPORATION STOP	BRASS
(C)		COPPER ADAPTER	
(D)		FLARE OR PACK JOINT COPPER ADAPTER	
(E)		SERVICE SADDLE CLAMP	D.I., A.C., C.I.
(F)		SERVICE SADDLE CLAMP	P.V.C.
(G)		COPPER PIPE (SERVICE LINE)	TYPE K (SOFT)

OMIT VALVE BOX

**1 1/2" and 2" Service taps**

August 2001

265

Plan 552

NO.	BY	DATE	REVISIONS
1	RHC	8/27/03	ADD/NOAM 1
2	RHC	5/27/04	PERE COUNTY REVIEW REVISIONS
3	RHC	5/27/04	COUNTY REVIEW
4	RHC	7/25/04	COUNTY REVIEW

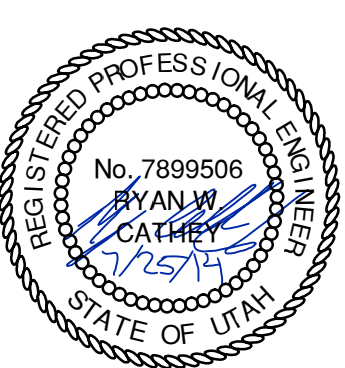
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. The user of these plans is advised that any and all such changes and uses must be approved by the preparer of these plans.

**SUMMIT EDEN PHASE 1A**  
**WATER DETAILS**

DATE SUBMITTED: 01/07/2014

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC

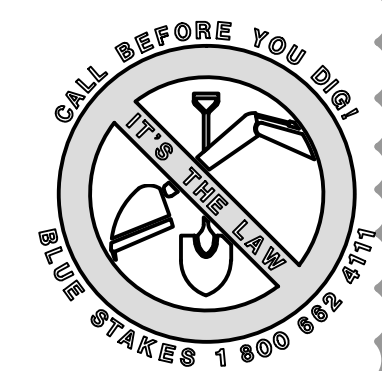
**NV5**  
 BEYOND ENGINEERING  
 5217 SOUTH STATE STREET, SUITE 200  
 801743.0000 TEL. 801743.0000 FAX  
 MURRAY, UT 84107  
 WWW.NV5.COM



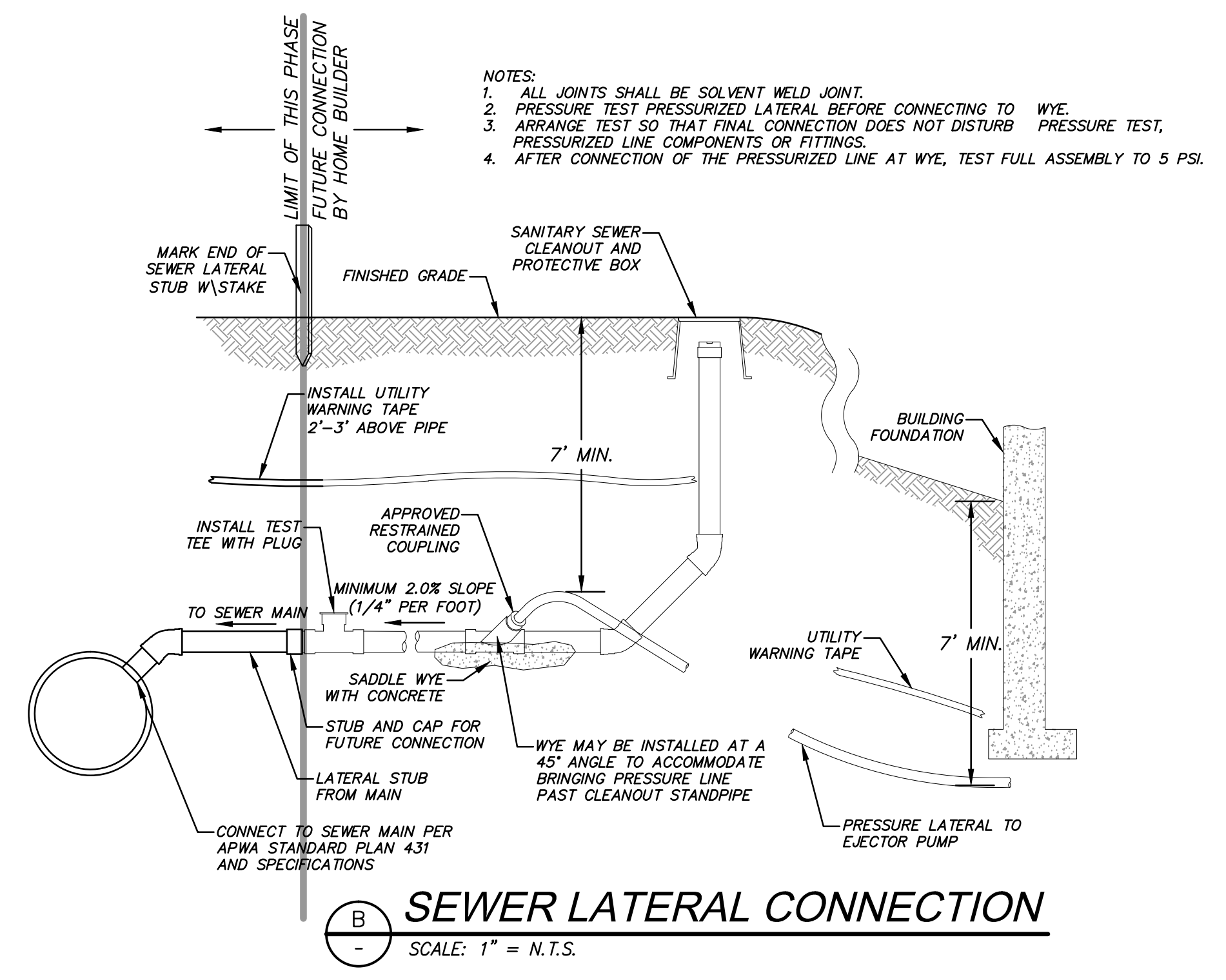
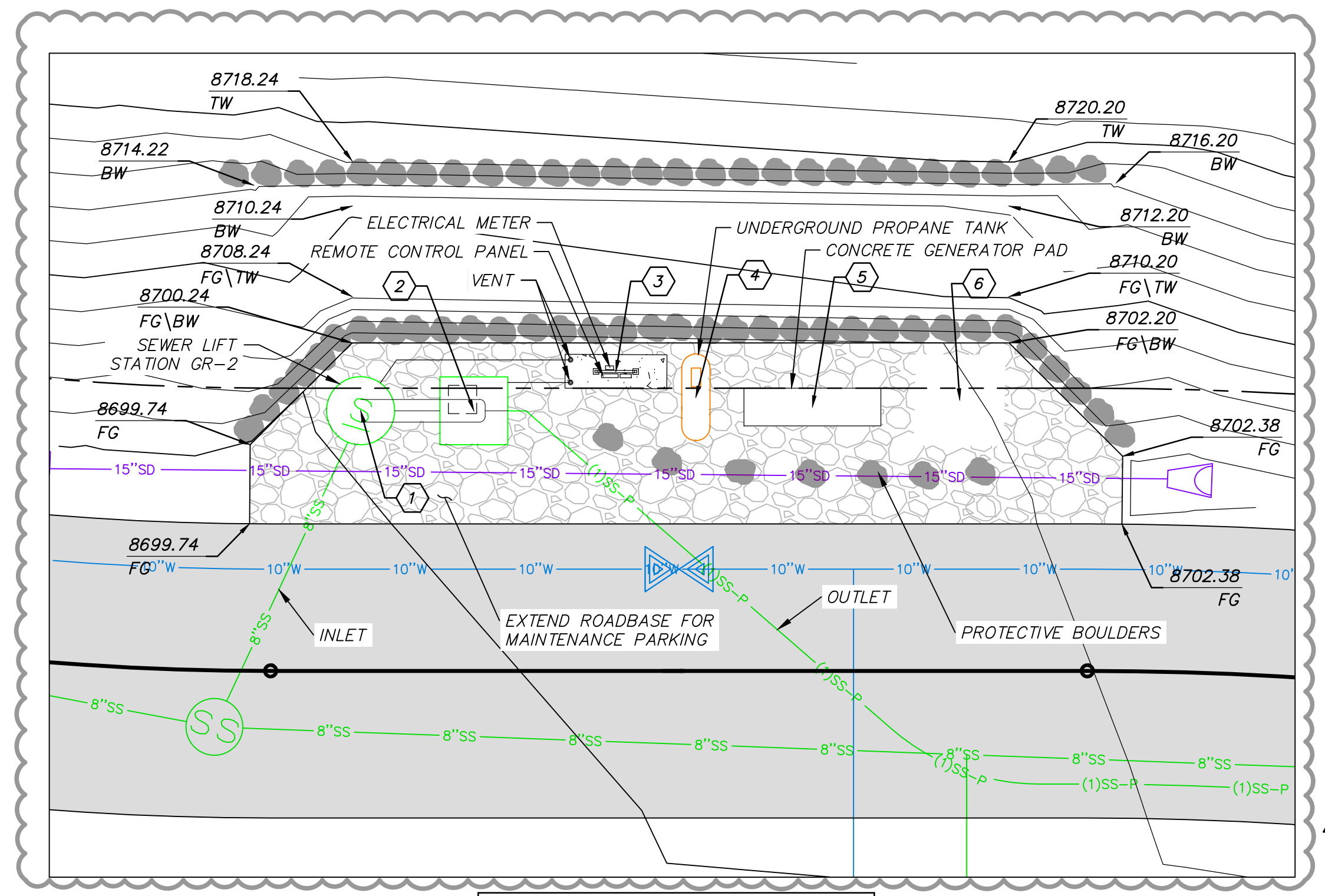
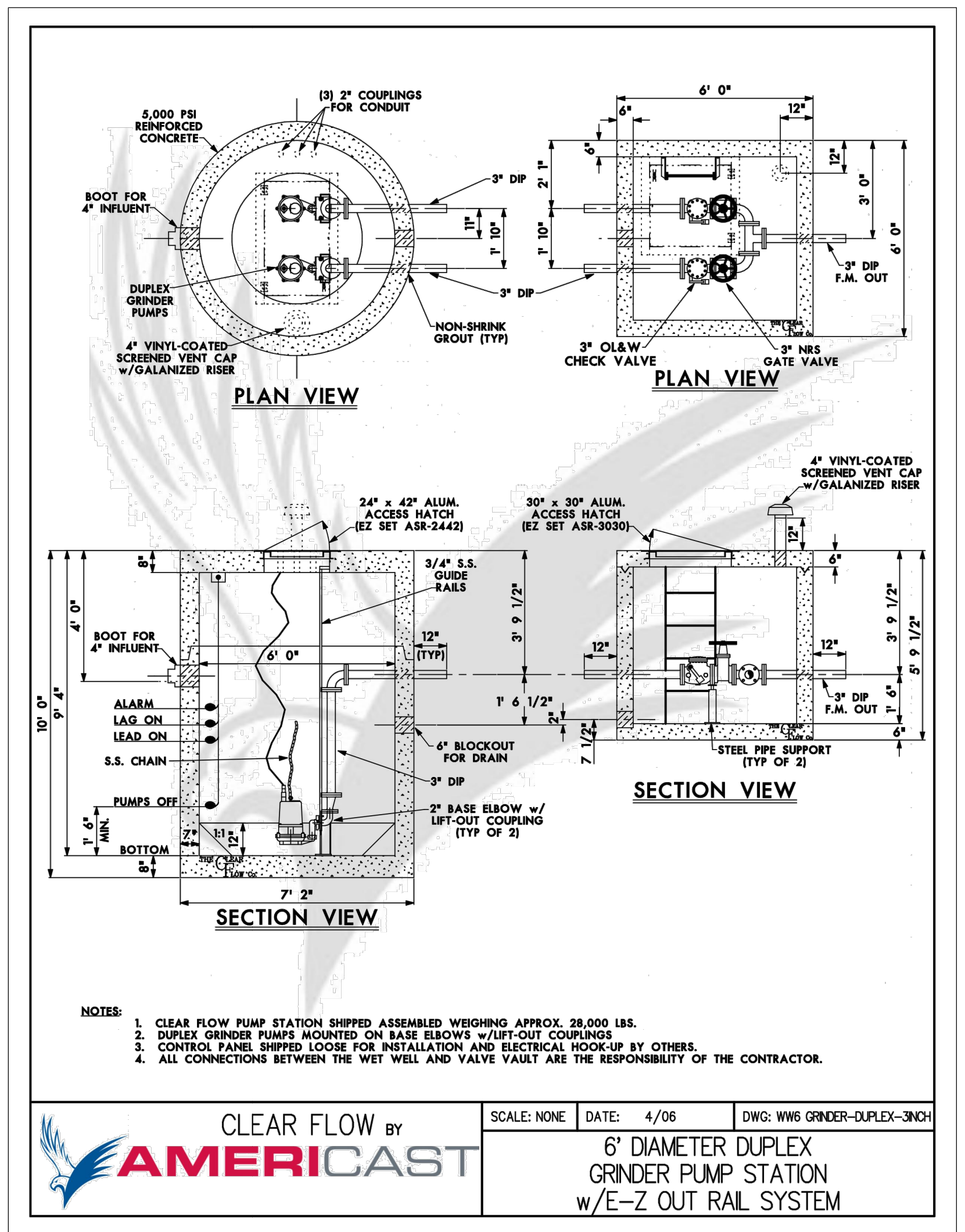
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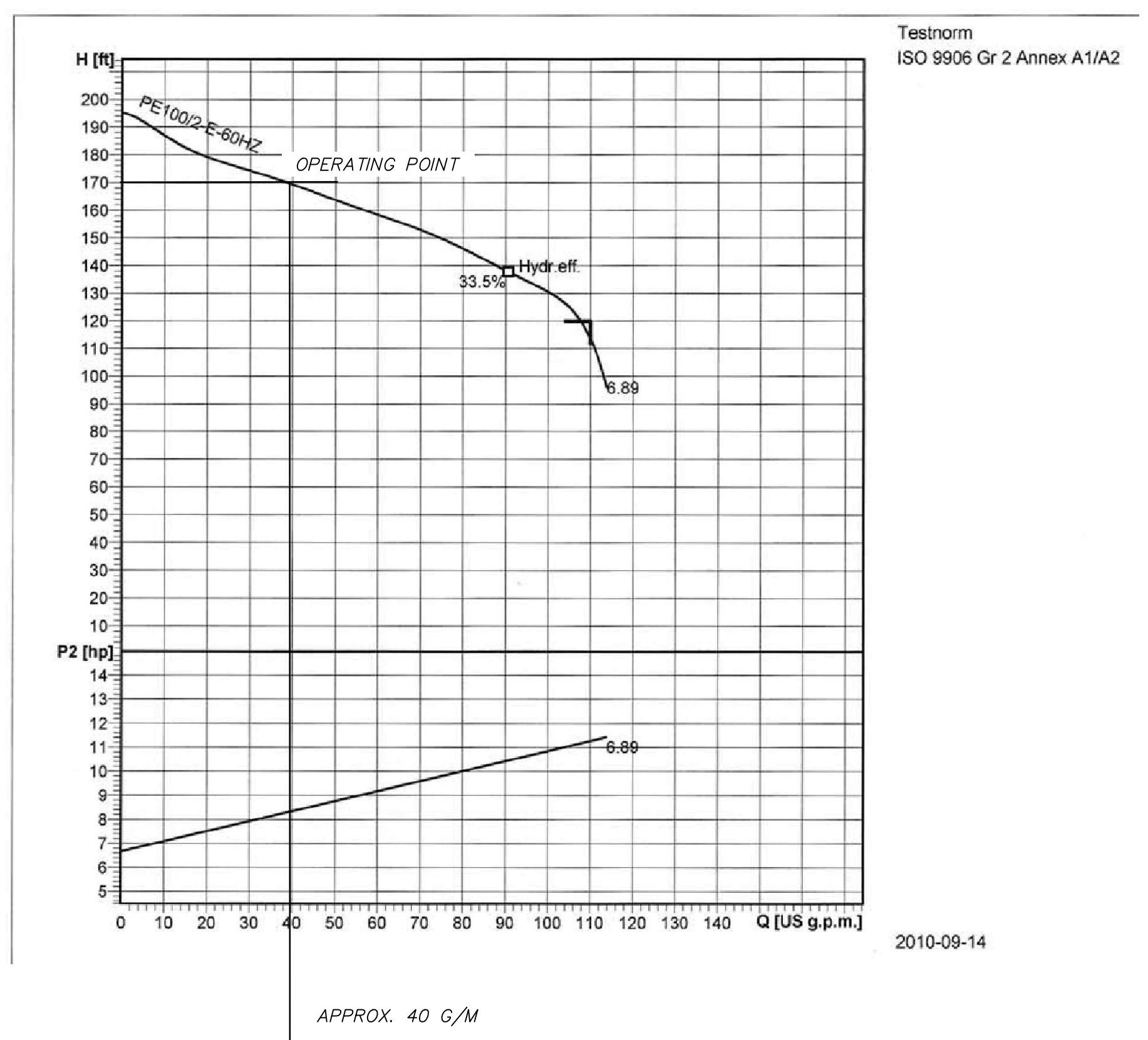
JOB NUMBER  
**SLB079306**







PIR PE PE100/2-E-60HZ



**LEGEND**

PUMP NAME	RIM ELEV	INVERT IN	INVERT IN SIZE	SUMP ELEV	Basin DIA.	DISCHARGE ELEV	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	8700.13	8688.74	8"	8681.74	72"	8848.06	170	13.4	3"	2.16	1500	AMERICAST 6" DIA. DUPLEX	ABS PUMP MODEL PIR PE PE100	38	CELLULAR	MANUAL	3 PHASE/480 VOLT

**SEWER GRINDER PUMP DETAILS**

SCALE: 1" = N.T.S.

**Grinder Station Calculations**

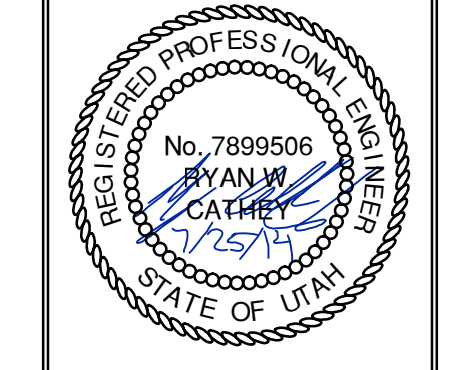
GR-2	
Head Difference	8683.71-8848.06=164.35 ft.
Pipe Length	750 ft.
Friction Loss	6.28 ft.
Flow Calc.	(23 units)/(3.2 People/household)(100 gallons/day/capita) =5.11 g/m average
Peaking Factor (Ten States Method)	$Q_{peak}/Q_{ave} = 18+VP/4+VP=4.5$ $Q_{peak} = 23.0$ g/m
Pump Curve	See Pump Curve = 40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

NO.	BY	DATE	REVISIONS
1	RMC	8/7/2013	ADDendum 1
2	RMC	5/27/2014	WEBER COUNTY REVIEW REVISIONS
3	RMC	5/27/2014	COUNTY REVIEW
4	RMC	7/25/2014	COUNTY REVIEW

**SUMMIT EDEN PHASE 1A**

**SEWER DETAILS**

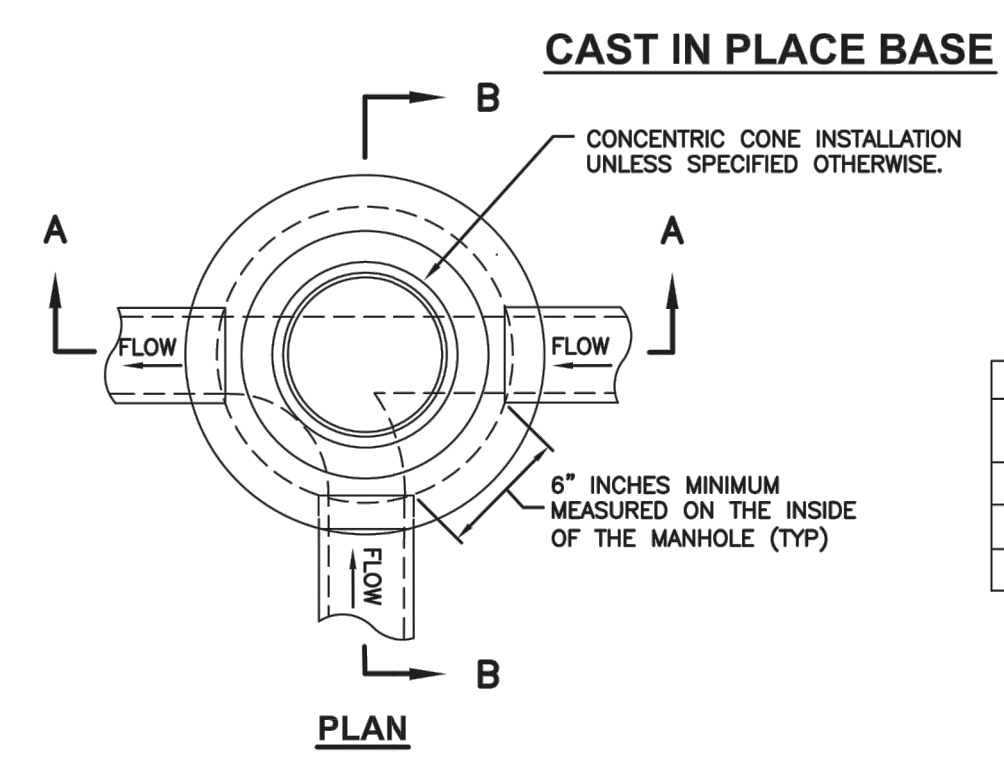
**NV5**  
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 5217 SOUTH STATE STREET, SUITE 200  
 801743.0300 TEL 801743.0300 FAX  
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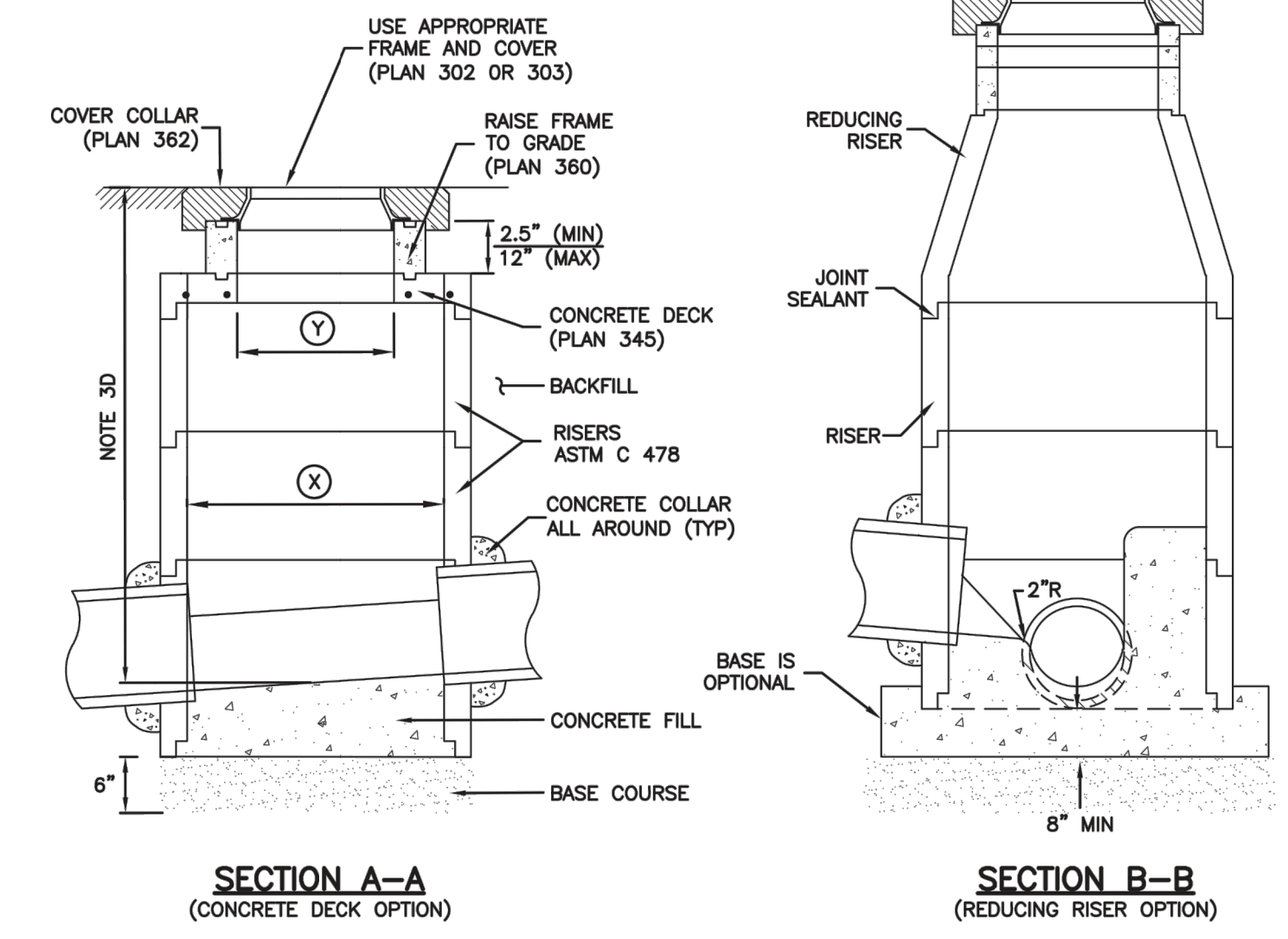
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SCALE	VERTICAL: 1" = N/A HORIZONTAL: 1" = N/A
JOB NUMBER	SLB079306



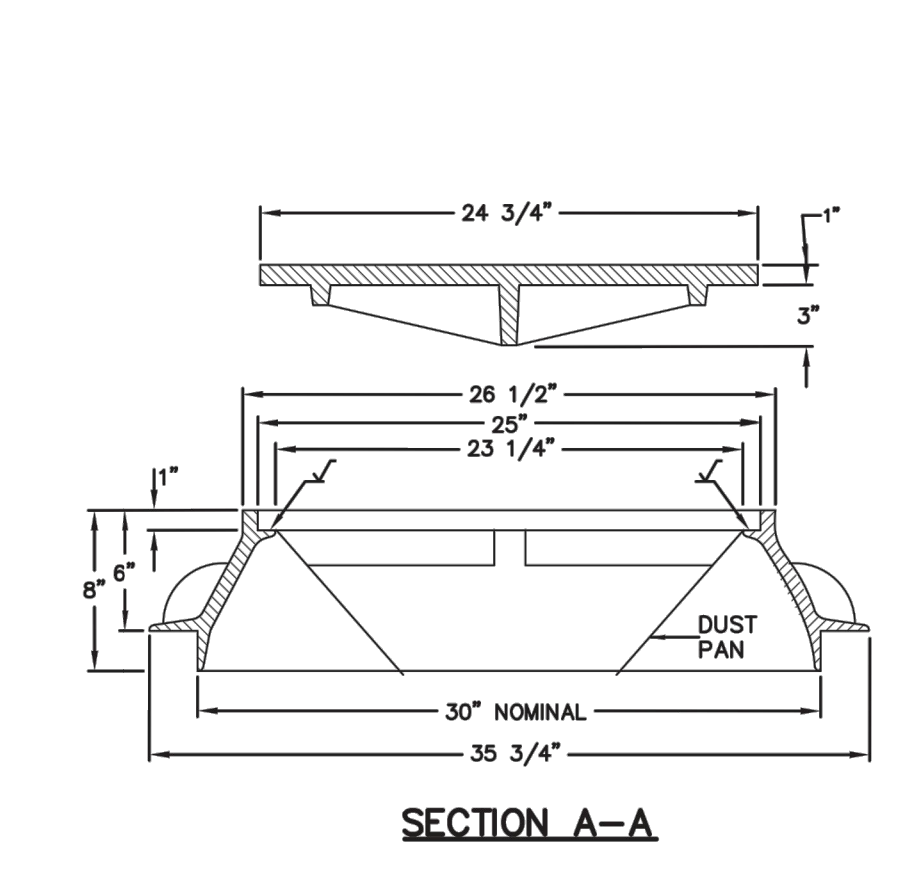
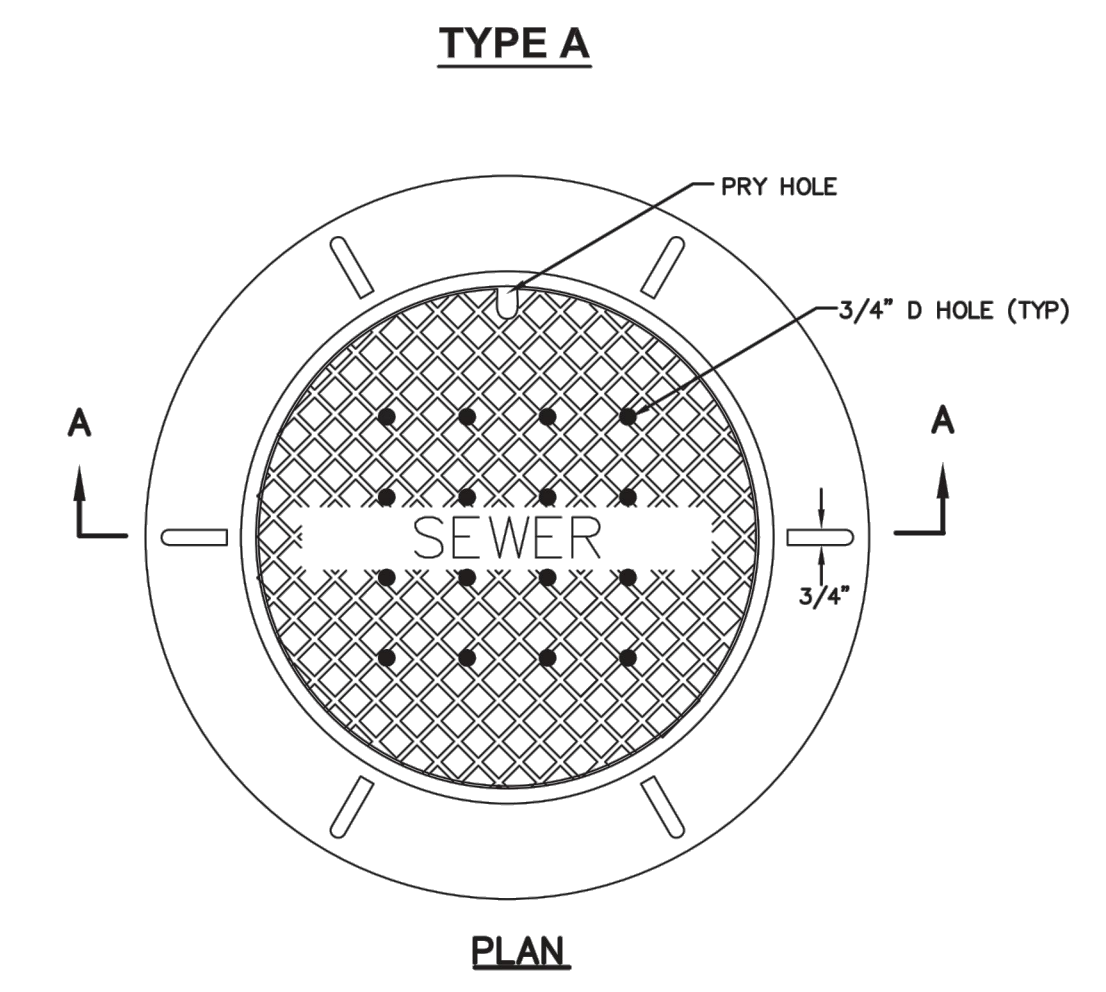




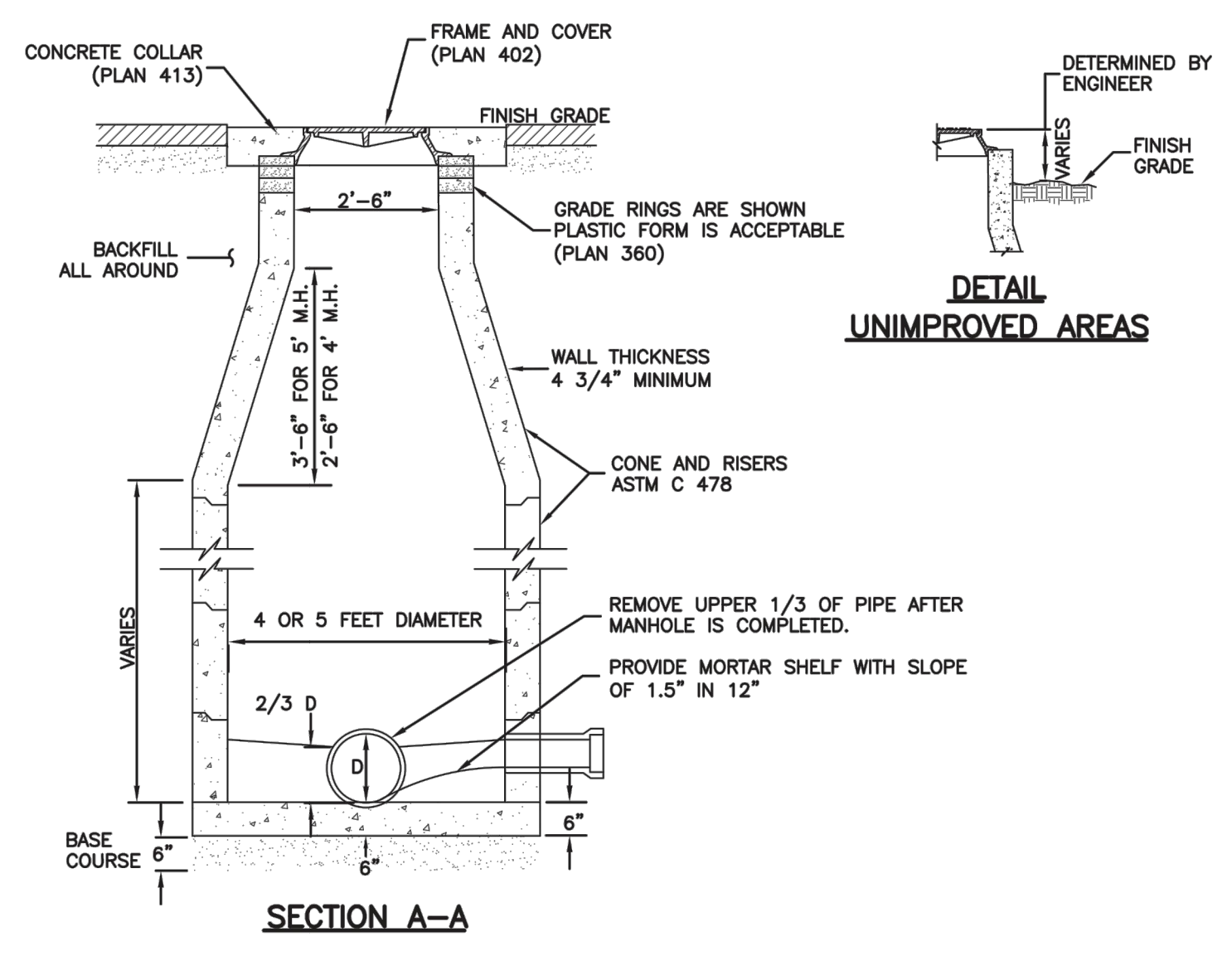
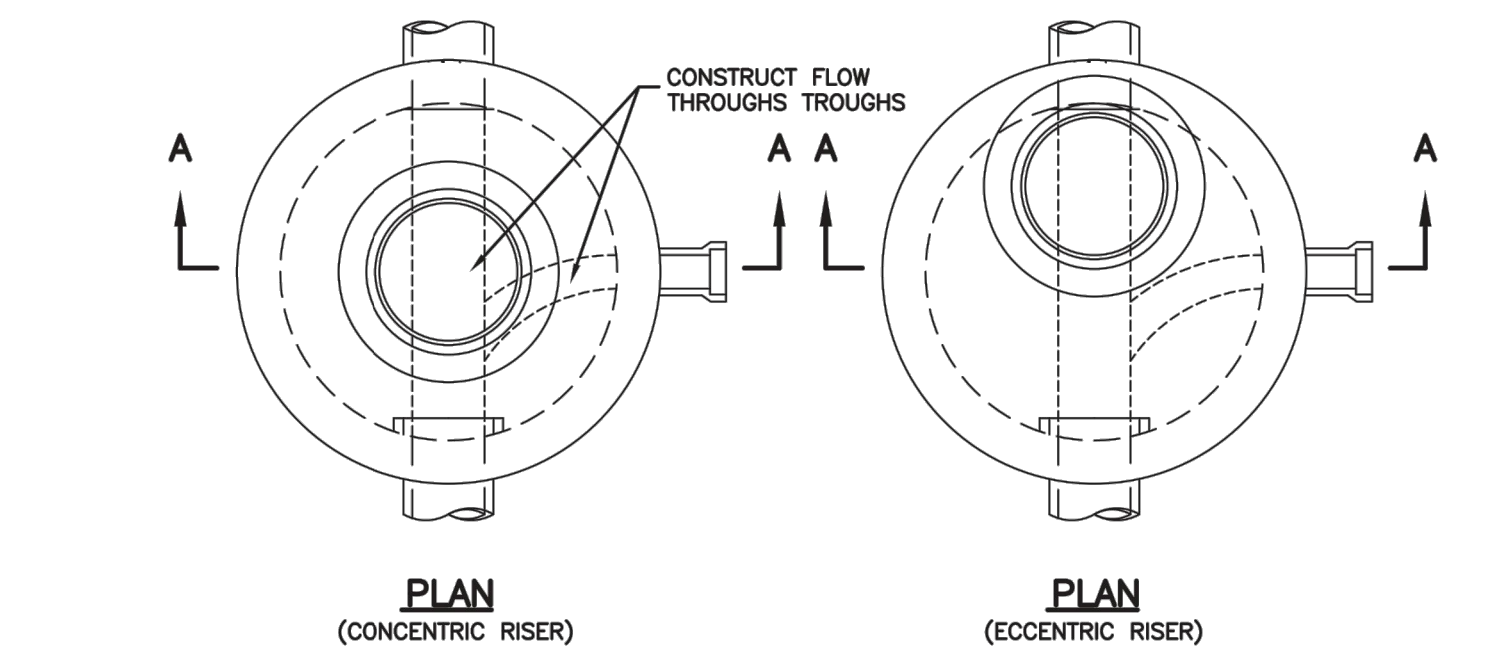
MANHOLE STYLE	DIMENSION	
A	⊗=48" ⊙=30"	
B	⊗=60" ⊙=44"	
C	⊗=60" ⊙=30"	



**Precast manhole** Plan 341  
 November 2010 187 Sheet 1 of 2

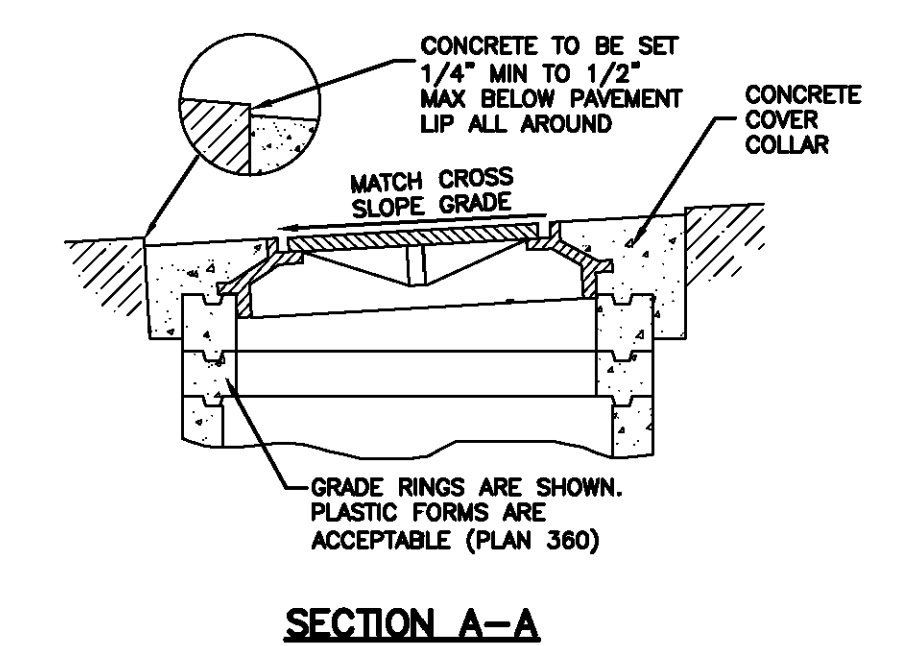
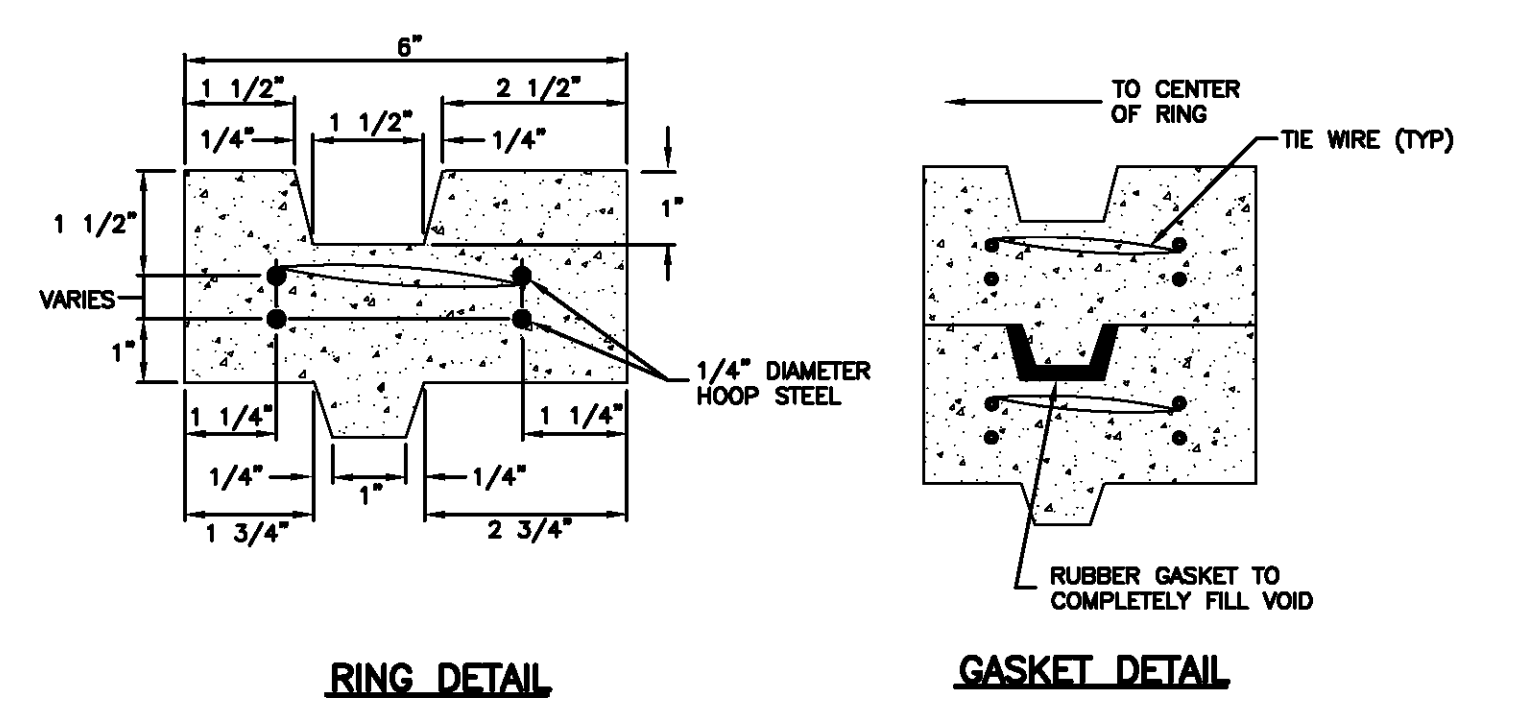
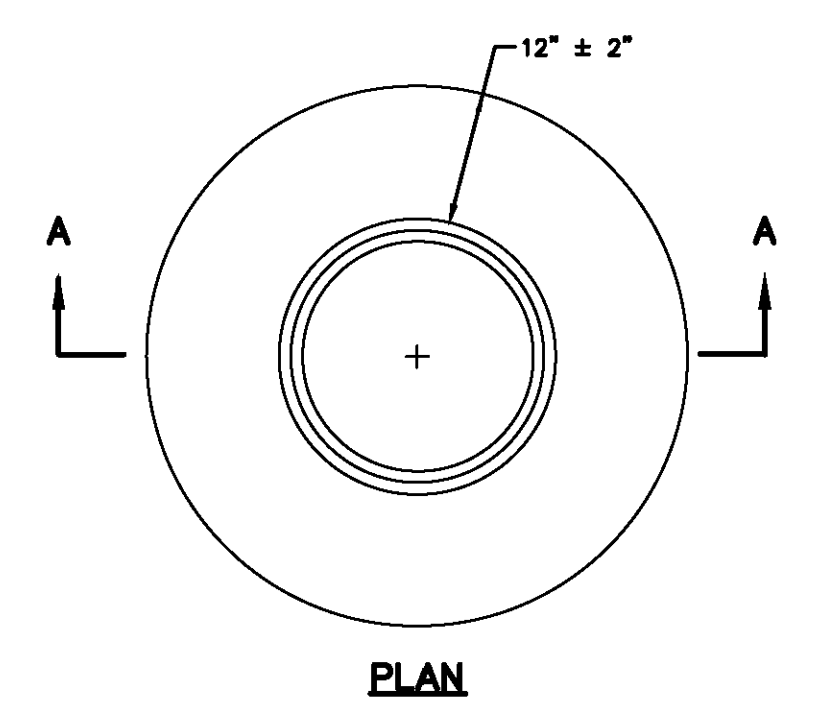
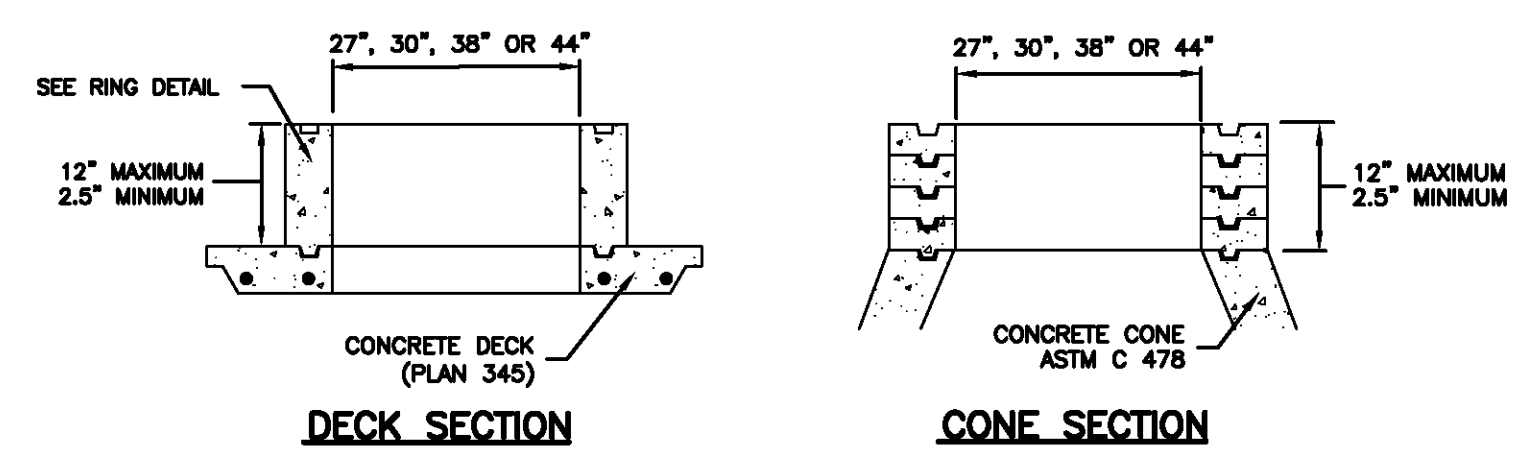


**30" Frame and cover** Plan 402  
 April 1997 211

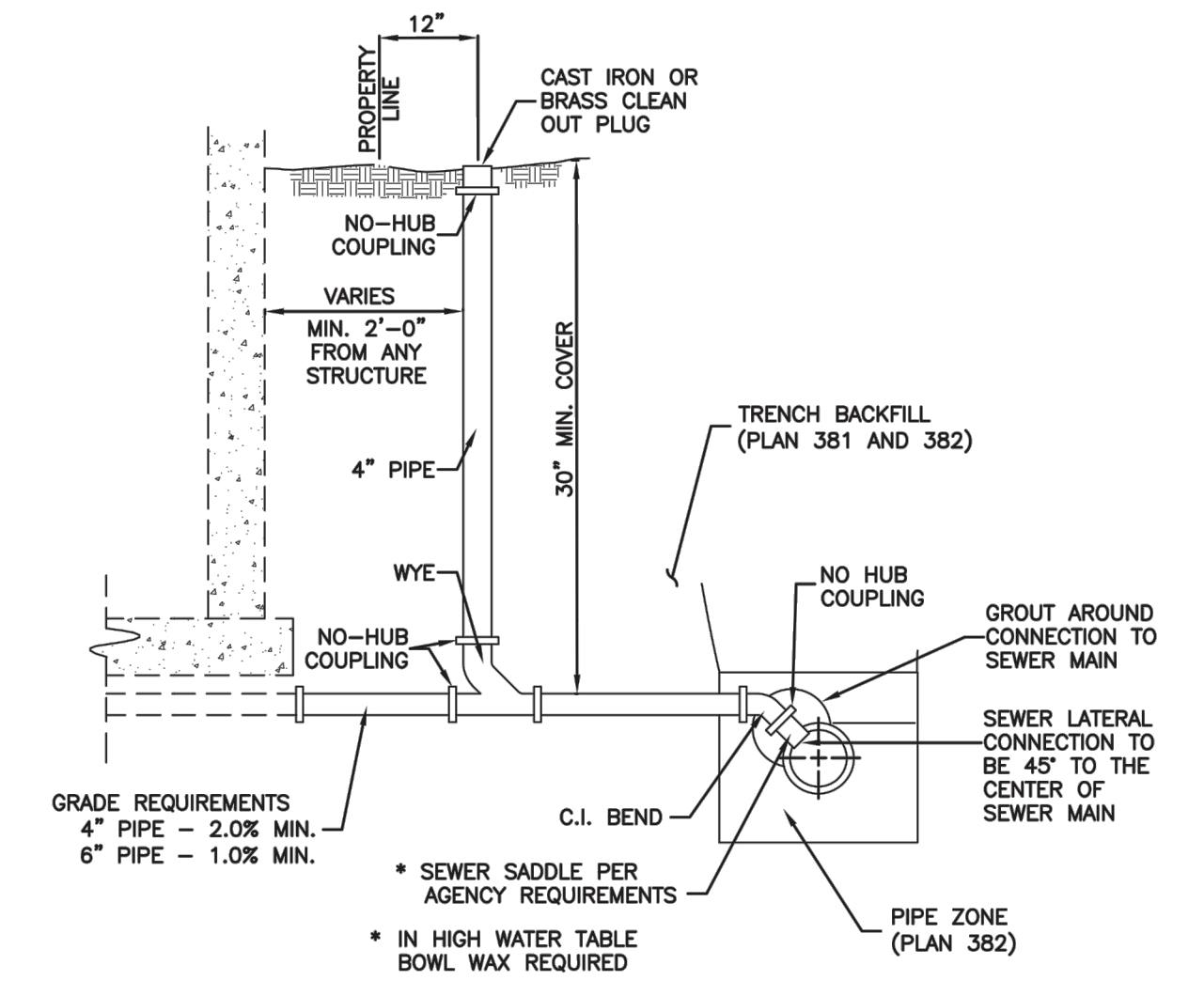


**Sanitary sewer manhole** Plan 411  
 April 2011 213

**GRADE RING**



**Cover collar for sanitary sewer manhole** Plan 413  
 September 2001 217



**Sewer lateral connection** Plan 431  
 January 2011 219

**Raise frame to grade** Plan 360  
 May 2008 193 Sheet 1 of 2

**Cover collar for sanitary sewer manhole** Plan 413  
 September 2001 217

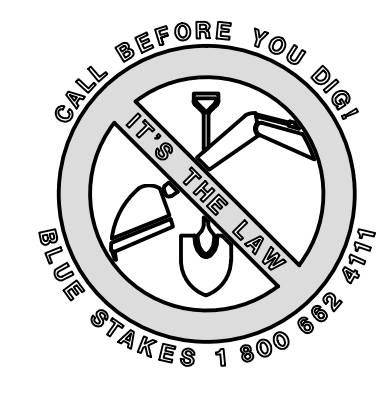
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2	PHC	5/27/2014	REBID COUNTY REVIEW REVISIONS
3	PHC	5/27/2014	REBID COUNTY REVIEW
4	PHC	7/25/2014	COUNTY REVIEW

**SUMMIT EDEN PHASE 1A**  
**SEWER DETAILS**

**NV5**  
 BEYOND ENGINEERING  
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 801743.0300 TEL. 801743.0300 FAX  
 MURRAY, UT 84107  
 WWW.NV5.COM

REGISTERED PROFESSIONAL ENGINEER  
 No. 7899506  
 RYAN W. CATHEY  
 STATE OF UTAH

SHEET NUMBER	5.11
SCALE	VERTICAL: 1" = N/A HORIZONTAL: 1" = N/A
JOB NUMBER	SLB079306

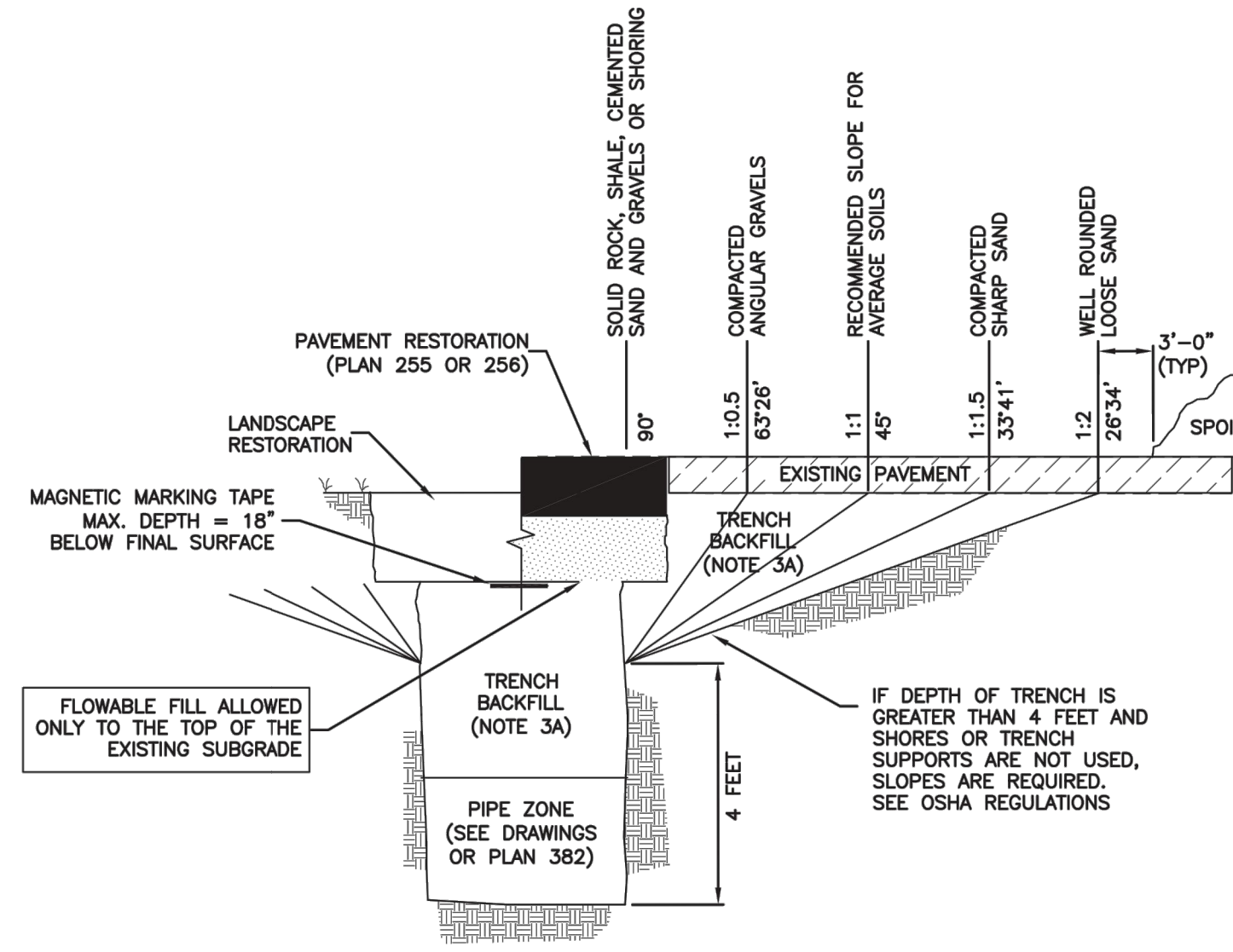


The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans unless such changes or uses are specifically approved by the engineer.



**Trench backfill**

1. **GENERAL**
  - A. The drawing applies to backfilling the trench above the pipe zone.
2. **PRODUCTS**
  - A. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 3-inches.
  - B. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
3. **EXECUTION**
  - A. Trench Backfill:
    - 1) DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate as trench backfill.
    - 2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.
    - 3) Water jetting is NOT allowed.
    - 4) Submission of quality control compaction test result data developed for haunching areas may be requested by ENGINEER at any time. Provide results of tests immediately upon request.
  - B. Flowable Fill: When required, place controlled low strength material in the trench, APWA Section 31 05 15. Cure the fill before placing surface restorations.
  - C. Surface Restoration:
    - 1) Landscaped Surface: Rake to match existing grade. Replace vegetation to match pre-construction conditions. Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements.
    - 2) Paved Surface: Do not install asphalt or concrete surfacing until trench compaction is acceptable to ENGINEER. Follow APWA Section 33 05 25 (asphalt surfacing), or APWA Section 33 05 25 (concrete surfacing).



**Trench backfill**

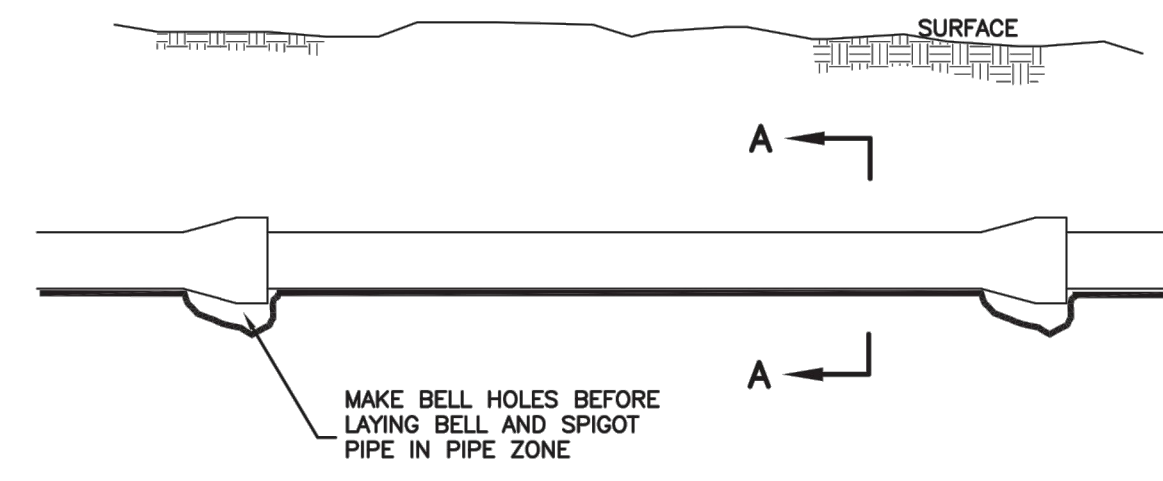
Plan 381

202

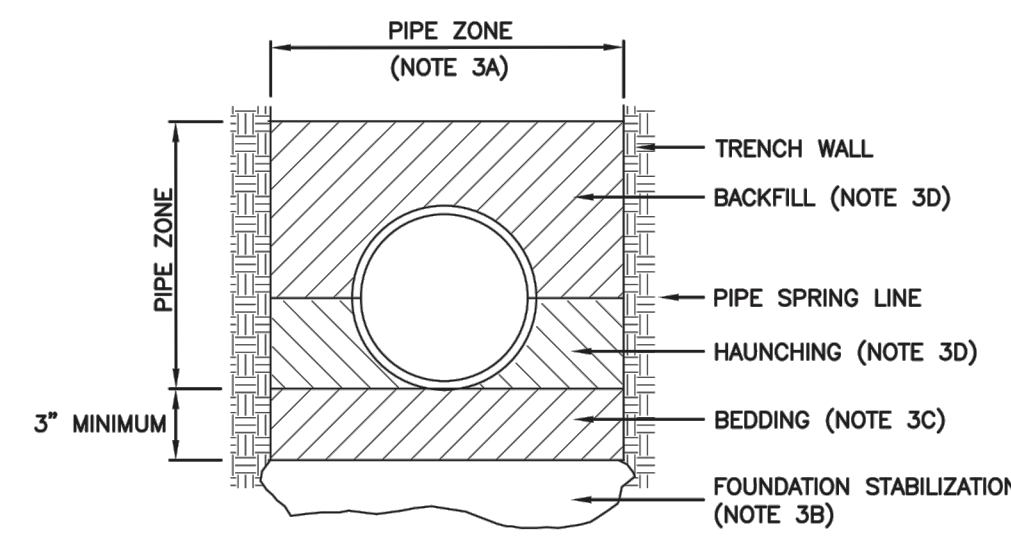
January 2011

**Pipe zone backfill**

1. **GENERAL**
  - A. Install the pipe in the center of the trench or no closer than 6-inches from the wall of the pipe to the wall of the trench.
2. **PRODUCTS**
  - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - C. Concrete: APWA Section 03 30 04.
  - D. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
  - E. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.
3. **EXECUTION**
  - A. Excavate the Pipe Zone: Width is measured at the pipe spring line and includes any necessary sheathing. Provide width recommended by pipe manufacturer. Follow manufacturer's recommendations when using trench boxes.
  - B. Foundation Stabilization: Get ENGINEER's permission before installing common fill. Vibrate to stabilize. Installation of stabilization-separation geotextile will be required to separate backfill material and native subgrade materials if common fill cannot provide a working surface or prevent soils migration.
  - C. Base Course:
    - 1) Furnish untreated base course material unless specified otherwise by pipe manufacturer.
    - 2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
    - 3) When using concrete, provide at least Class 2,000 per APWA Section 03 30 04.
  - D. Pipe Zone: DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate in the pipe zone. Water jetting is NOT allowed.
    - 1) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26 unless pipe manufacturer requires more stringent installation.
    - 2) Submission of quality control compaction test result data developed for the haunch zone may be requested by ENGINEER at any time. CONTRACTOR is to provide results of tests immediately upon request.
  - E. Flowable Fill (when required and if allowed by pipe manufacturer):
    - 1) Place the controlled low strength material. APWA Section 31 05 15.
    - 2) Prevent pipe flotation by installing in lifts and providing pipe restraints as required by pipe manufacturer.
    - 3) Reset pipe to line and grade if pipe "floats" out of position.



**ELEVATION VIEW**



**SECTION A-A**

**INSTALLATION**  
 CONCRETE PIPE: FOLLOW ASTM C 1479  
 STANDARD PRACTICE FOR INSTALLATION OF PRECAST CONCRETE SEWER, STORM DRAIN, AND CULVERT PIPE USING STANDARD INSTALLATIONS.  
 PVC AND HDPE PIPE: FOLLOW ASTM D 2321  
 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS.  
 CORRUGATED METAL PIPE: FOLLOW ASTM A 798  
 STANDARD PRACTICE FOR INSTALLING FACTORY-WADE CORRUGATED STEEL PIPE FOR SEWERS AND OTHER APPLICATIONS.  
 VITRIFIED CLAY PIPE: FOLLOW ASTM C 12.  
 STANDARD RECOMMENDED PRACTICE FOR INSTALLING VITRIFIED CLAY PIPE LINES.

**Pipe zone backfill**

Plan 382

204

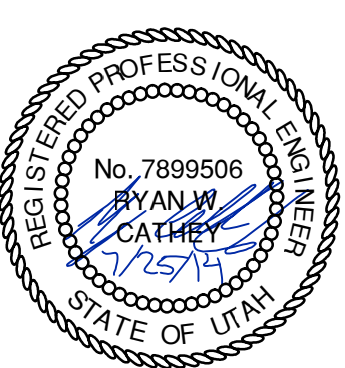
January 2011

**SUMMIT EDEN PHASE 1A**  
**MISCELLANEOUS DETAILS**

NO.	BY	DATE	REVISIONS
1	RHC	8/27/2013	ADD/NOV 1
2	RHC	5/27/2014	PERE COUNTY REVIEW REVISIONS
3	RHC	5/27/2014	COUNTY REVIEW
4	RHC	7/25/2014	COUNTY REVIEW

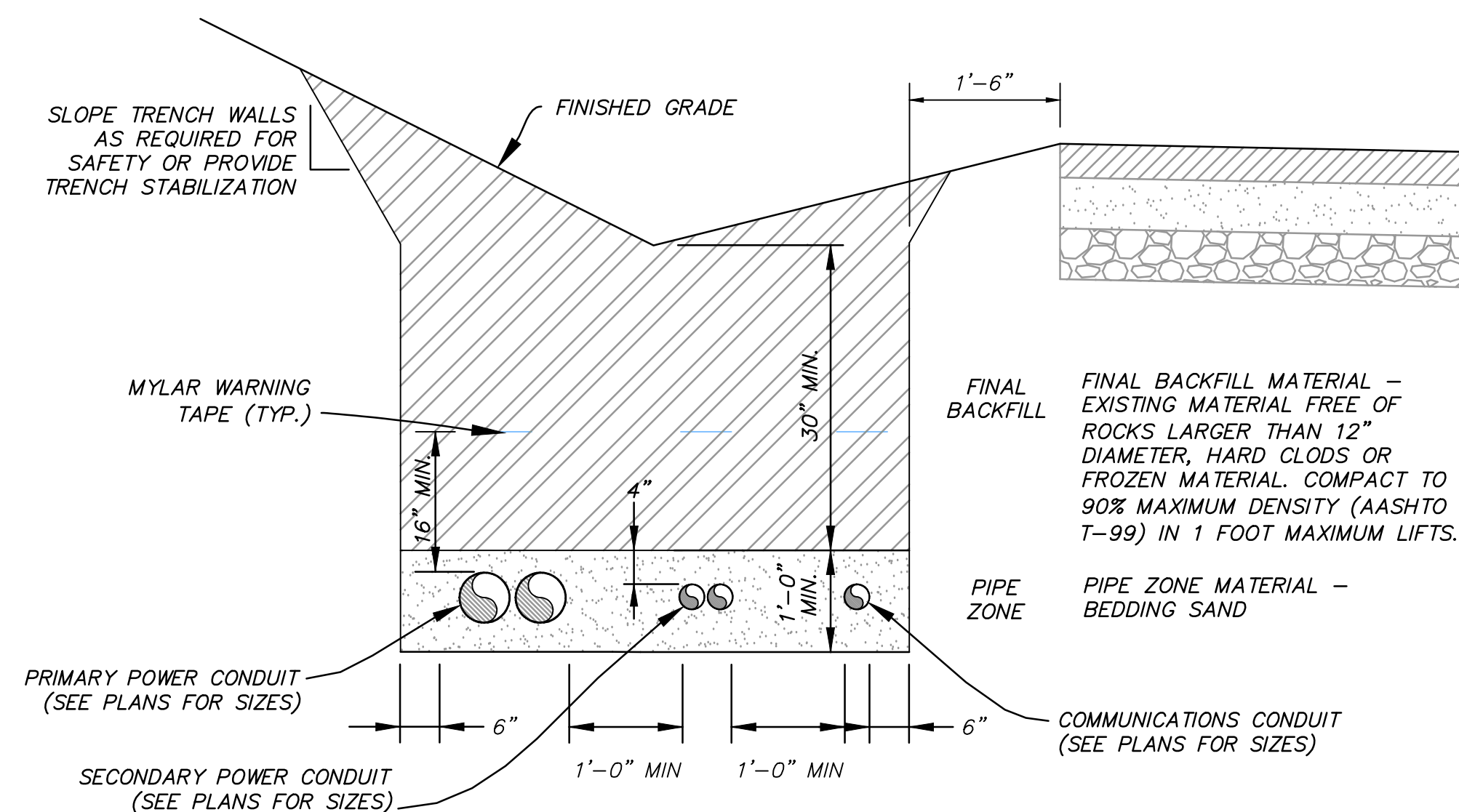
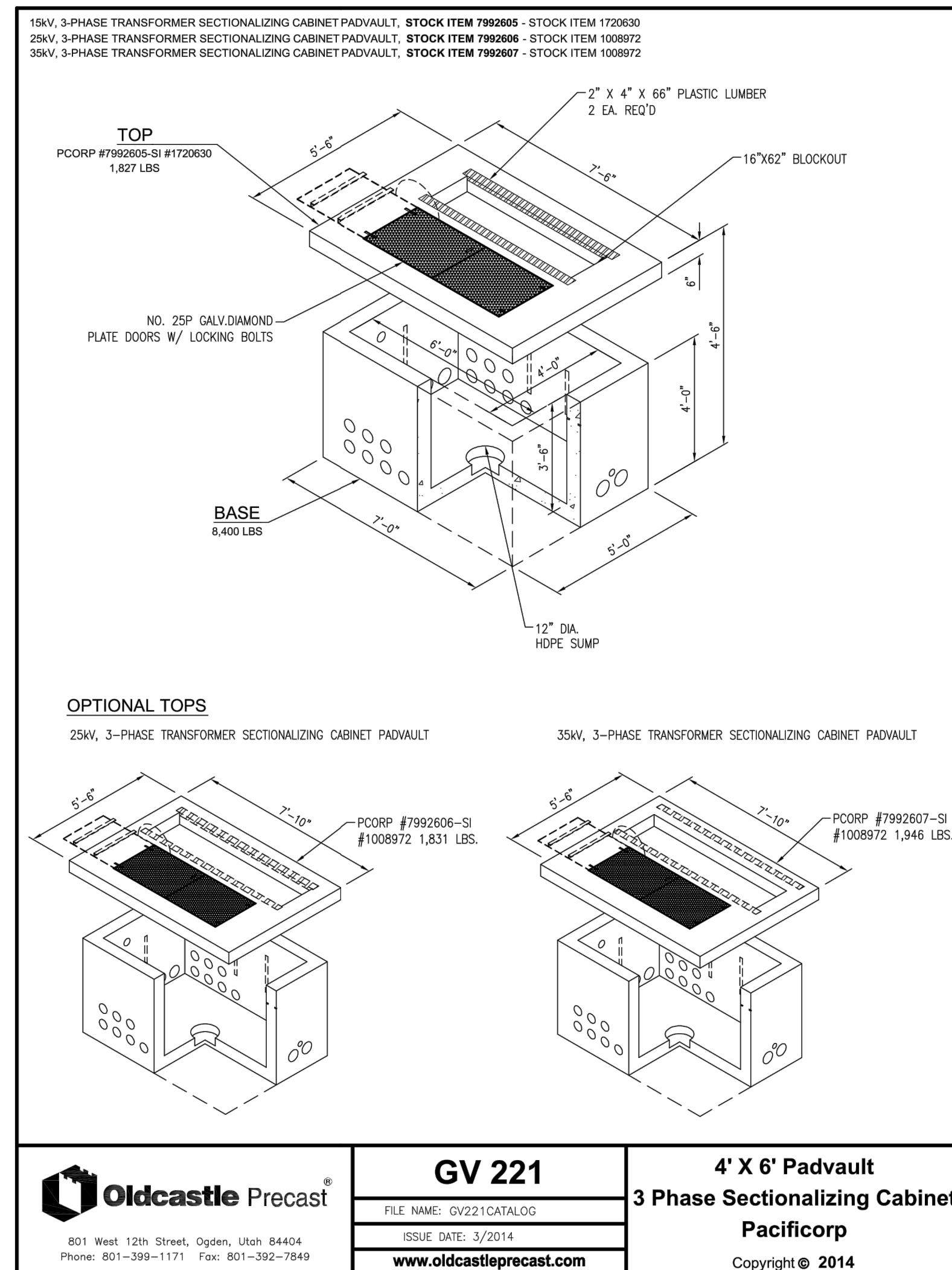
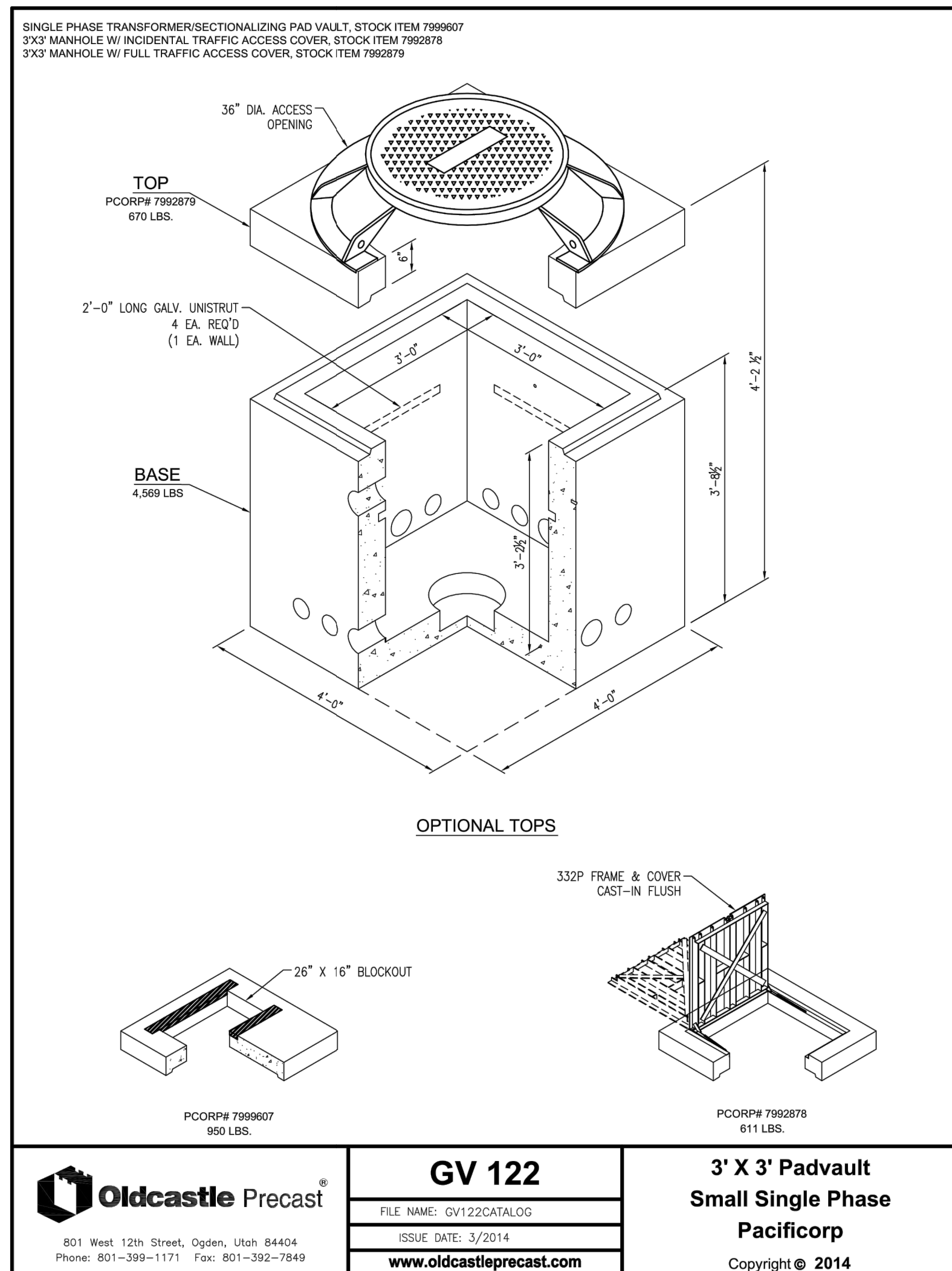
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PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014



SHEET NUMBER  
**5.12**  
 SCALE  
 VERTICAL: 1" = N/A  
 HORIZONTAL: 1" = N/A  
 JOB NUMBER  
**SLB079306**





NOTE: EACH CONDUIT REQUIRES 2500lb MULE TAPE WITHIN

**POWER CONDUIT TRENCH**

VAR NTS

NO.	BY	DATE	REVISIONS
1	RMC	8/27/2013	ADD ROOM 1
2	RMC	5/27/2014	WEBB COUNTY REVIEW REVISIONS
3	RMC	5/27/2014	WEBB COUNTY REVIEW
4	RMC	7/25/2014	COUNTY REVIEW

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**SUMMIT EDEN PHASE 1A**  
**ELECTRICAL DETAILS**

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC  
 DATE SUBMITTED: 01/07/2014

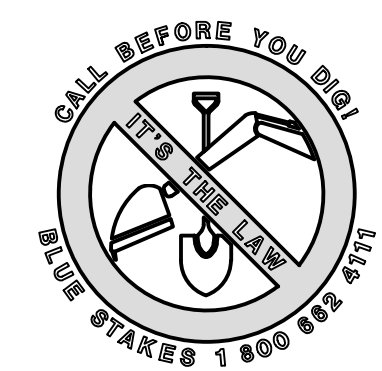
**NV5**  
 BEYOND ENGINEERING  
 627 SOUTH STATE STREET, SUITE 200  
 801743.0000 TEL. 801743.0000 FAX  
 MURRAY, UT 84107  
 WWW.NV5.COM

REGISTERED PROFESSIONAL ENGINEER  
 No. 7899506  
 RYAN W. CATHY  
 2/25/14  
 STATE OF UTAH

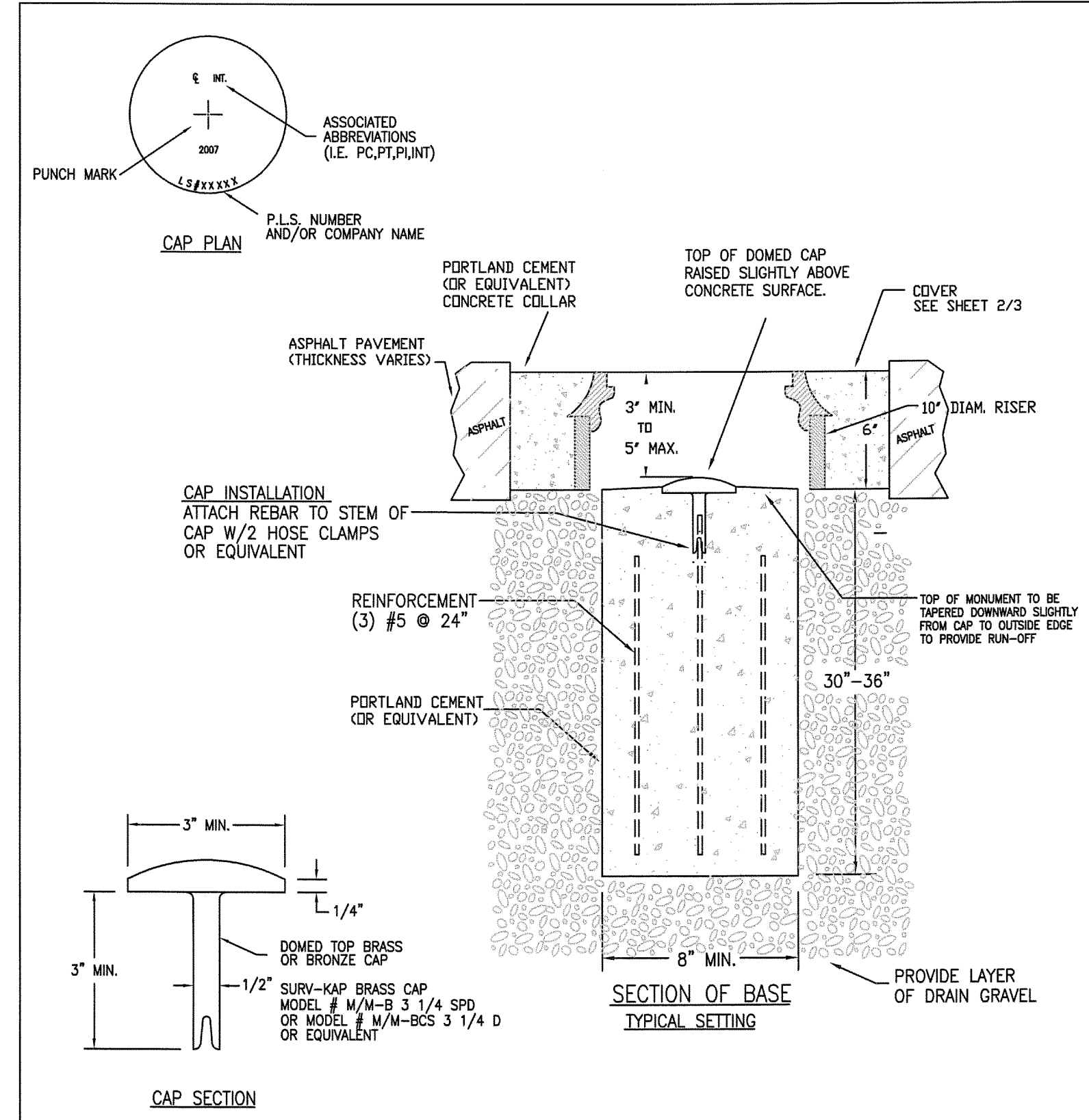
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JOB NUMBER  
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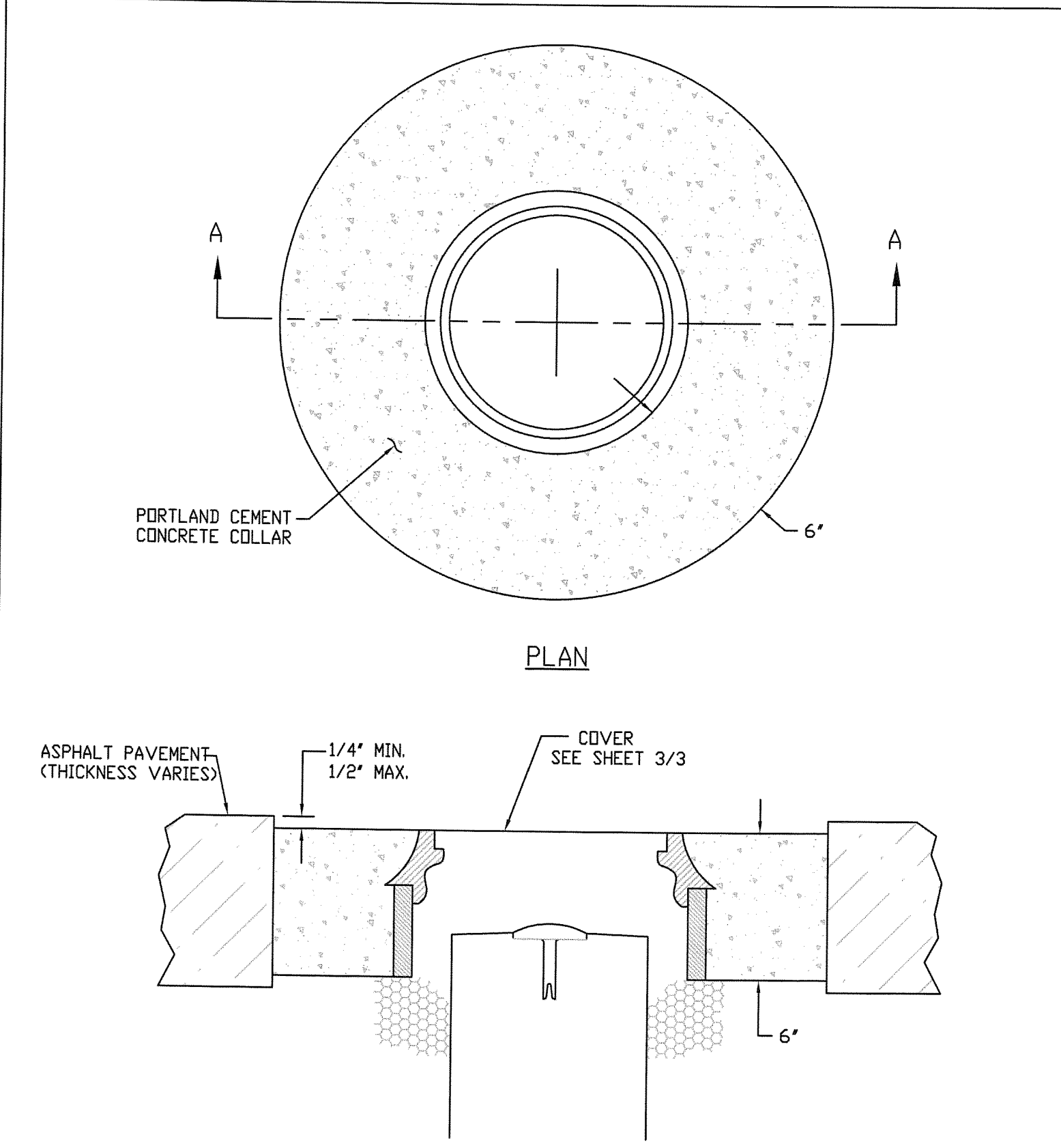




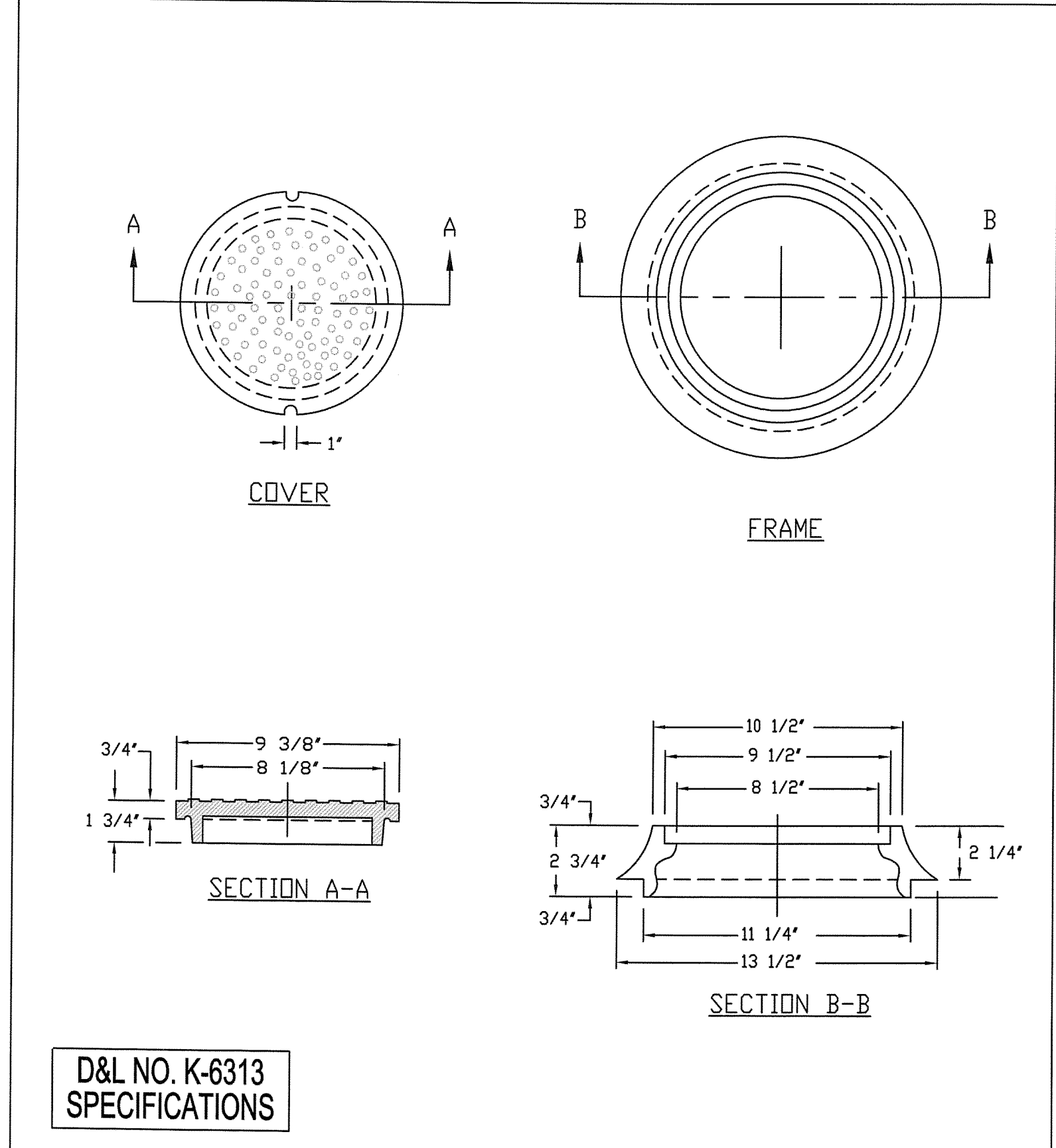


CAP CAN BE PURCHASED FROM SURVEYOR'S OFFICE

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



D&L NO. K-6313 SPECIFICATIONS

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

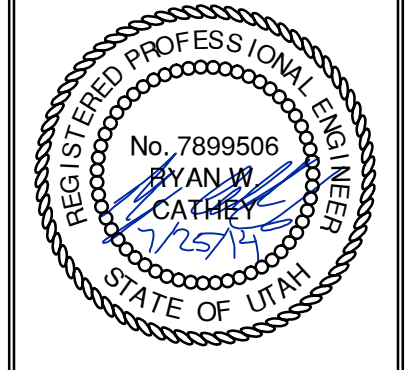
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1	RHC	8/27/2013	ADDENDUM 1
2	RHC	5/27/2014	WEBER COUNTY REVIEW REVISIONS
3	RHC	5/27/2014	COUNTY REVIEW
4	RHC	7/25/2014	COUNTY REVIEW

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PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

**SUMMIT EDEN PHASE 1A**  
 MISCELLANEOUS DETAILS

**NV5**  
 BEYOND ENGINEERING  
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 801743.000 TEL. 801743.000 FAX  
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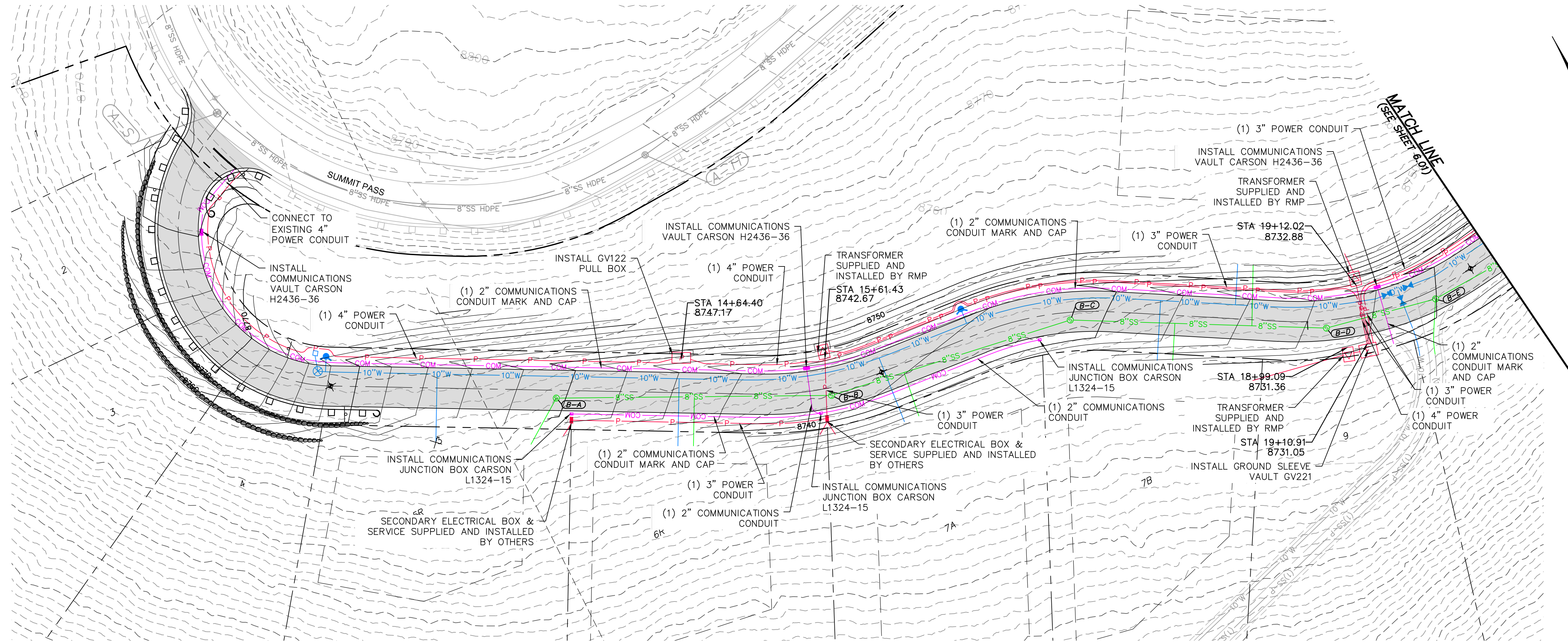
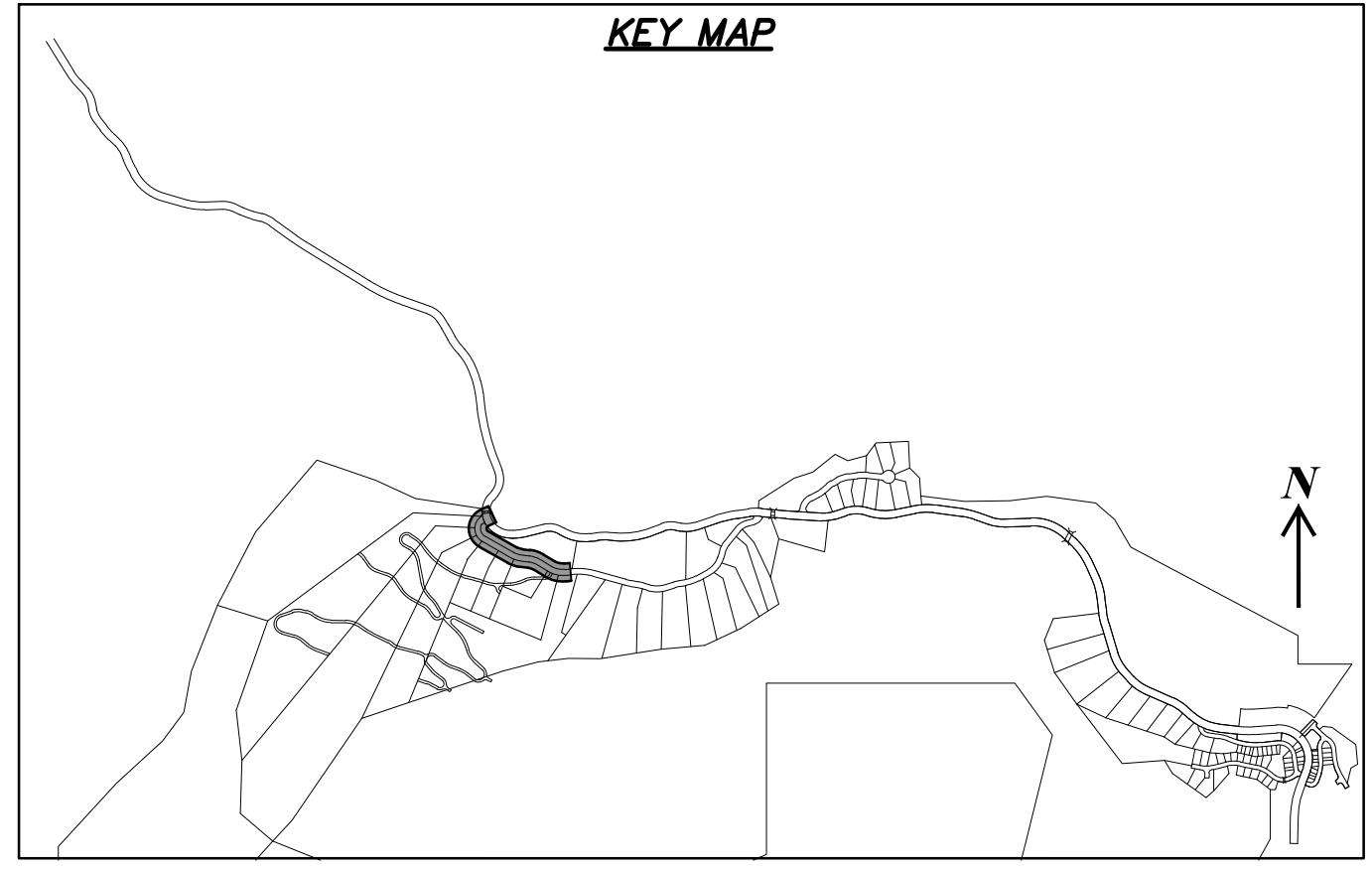


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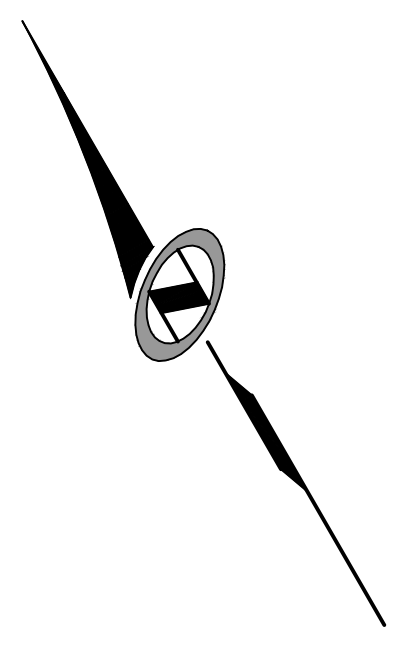
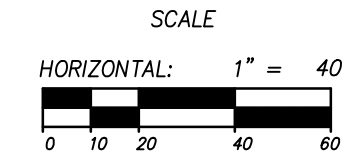




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**HORIZON RUN**  
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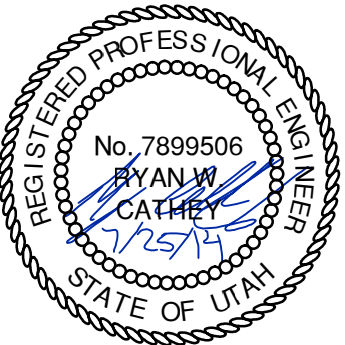
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2	RMC	5/27/2014	WEBB COUNTY REVIEW REVISIONS
3	RMC	5/27/2014	COUNTY REVIEW
4	RMC	7/25/2014	COUNTY REVIEW

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**SUMMIT EDEN PHASE 1A**  
**DRY UTILITIES**  
**HORIZON RUN**

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

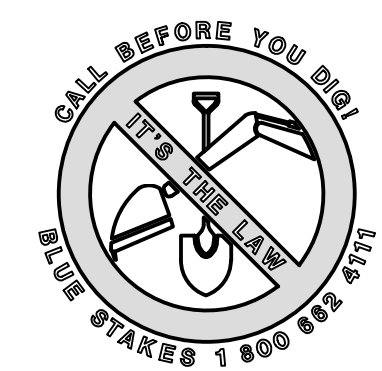
**NV5**  
 BEYOND ENGINEERING  
 527 SOUTH STATE STREET, SUITE 200  
 801743.0000 TEL. 801743.0000 FAX  
 MURRAY, UT 84107  
 WWW.NV5.COM



SHEET NUMBER  
**6.00**

SCALE  
 VERTICAL: 1" = N/A  
 HORIZONTAL: 1" = 40'

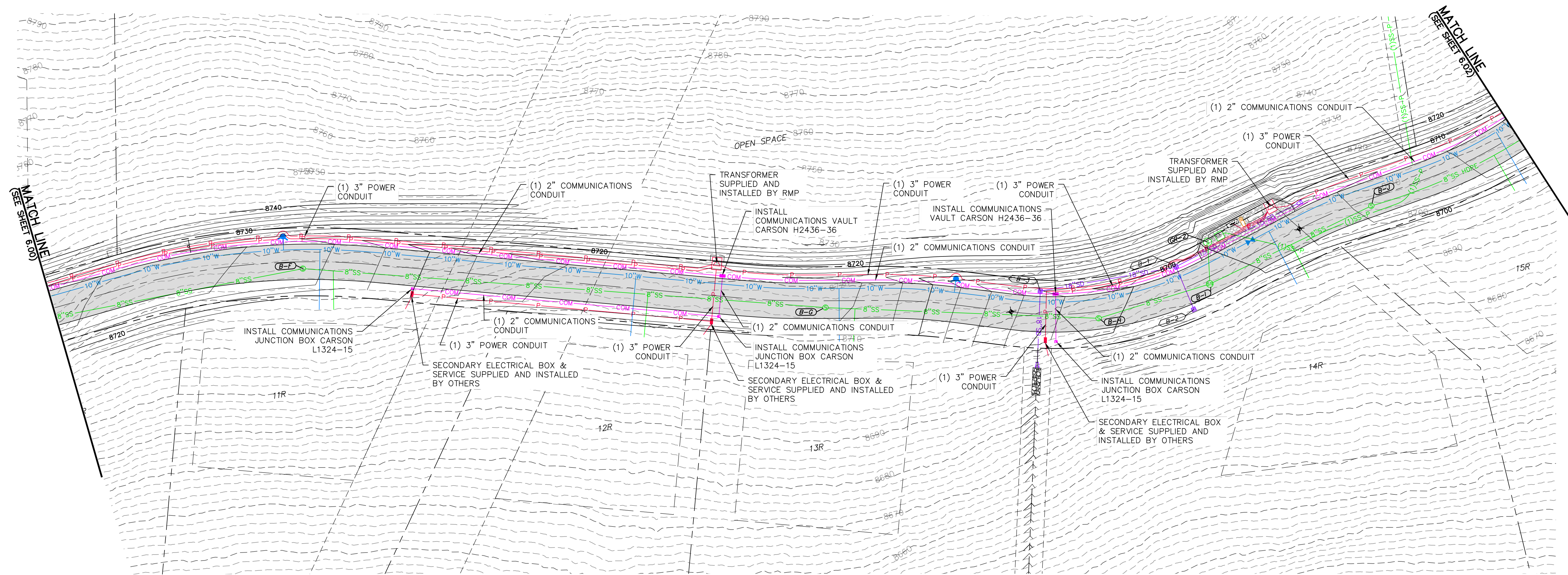
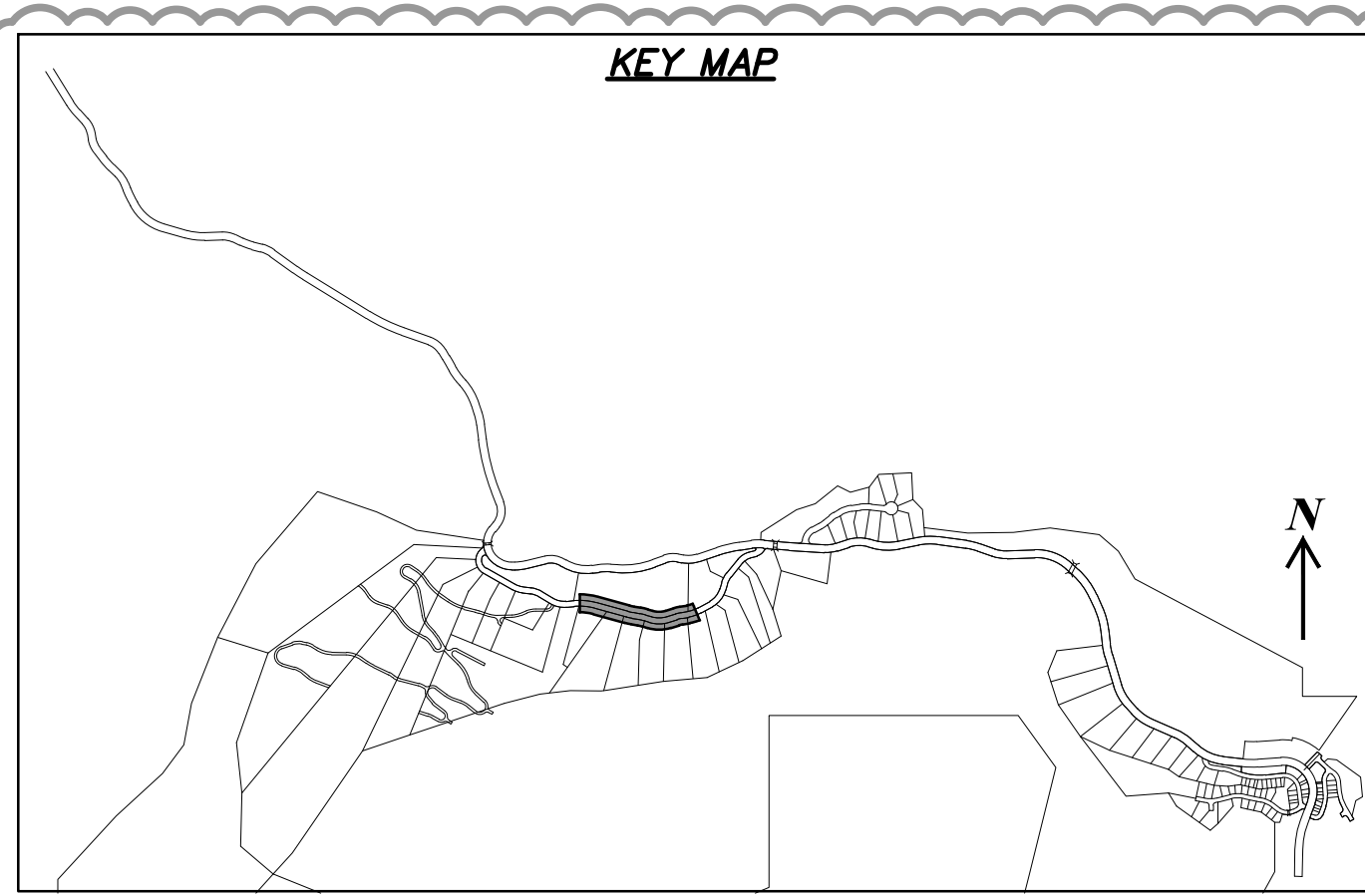
JOB NUMBER  
**SLB079306**



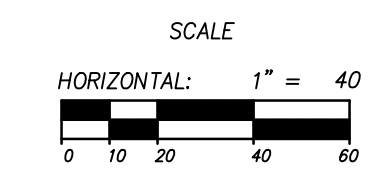
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**HORIZON RUN**  
 STA: 20+00.00 TO 31+00.00



NO.	BY	DATE	REVISIONS
1	RMC	8/27/2013	ADD/NOV 1
2	RMC	5/27/2014	WEBB COUNTY REVIEW REVISIONS
3	RMC	5/27/2014	WEBB COUNTY REVIEW
4	RMC	7/25/2014	COUNTY REVIEW

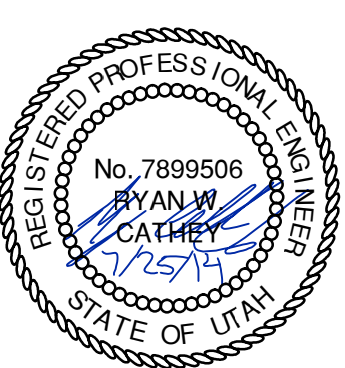
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**SUMMIT EDEN PHASE 1A**

**DRY UTILITIES  
 HORIZON RUN**

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

**NV5**  
 BEYOND ENGINEERING  
 5217 SOUTH STATE STREET, SUITE 200  
 801743.0000 TEL. 801743.0000 FAX  
 MURRAY, UT 84107  
 WWW.NV5.COM



SHEET NUMBER  
**6.01**

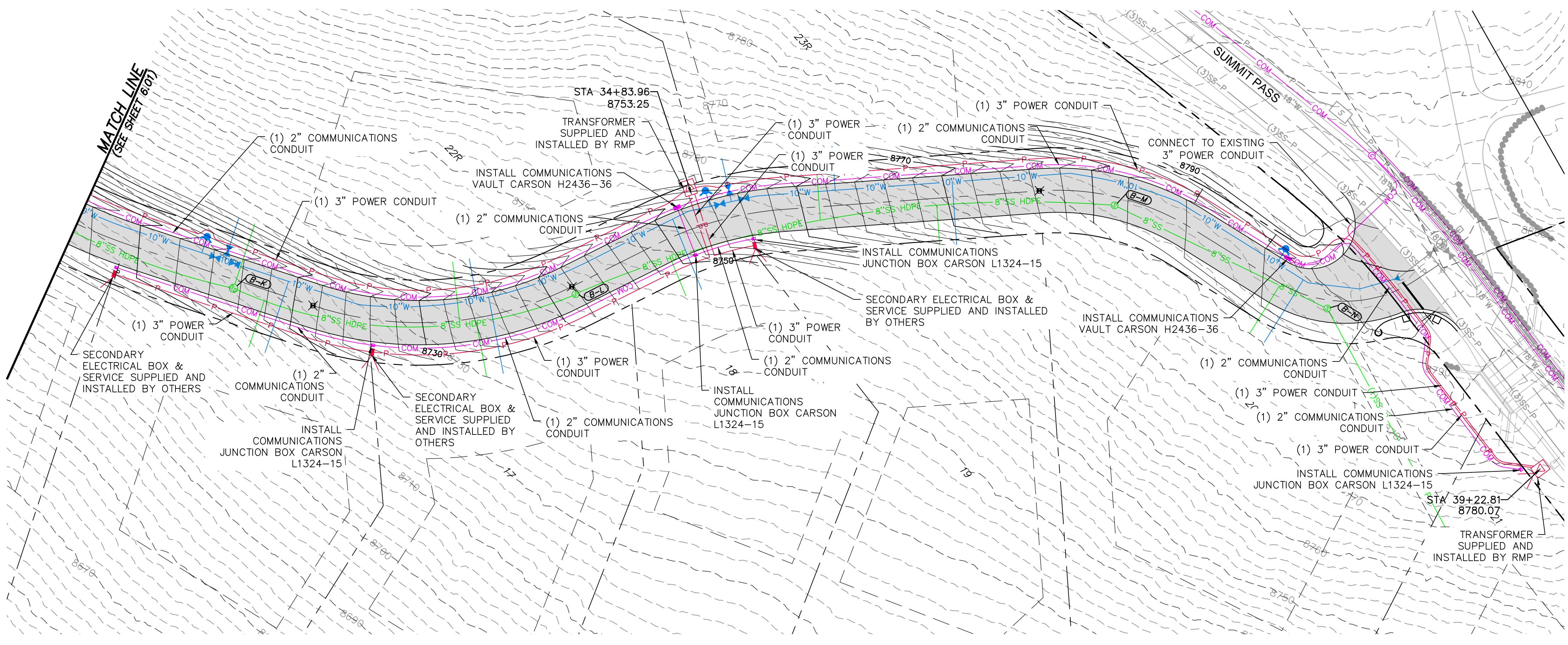
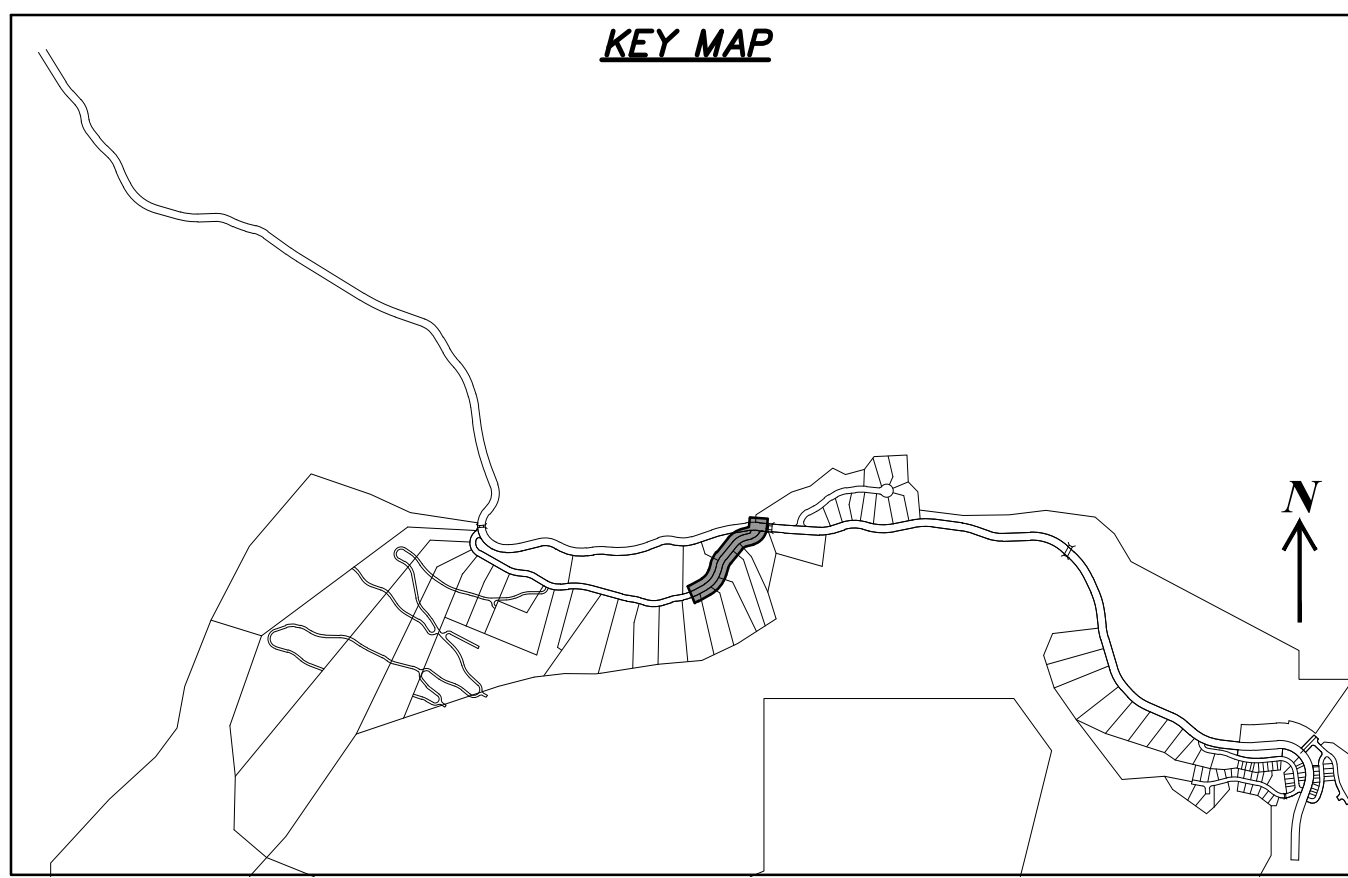
SCALE  
 VERTICAL: 1" = 40'  
 HORIZONTAL: 1" = N/A

JOB NUMBER  
**SLB079306**

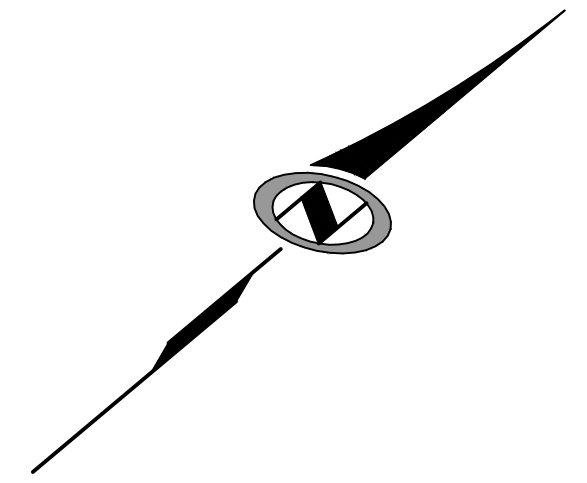
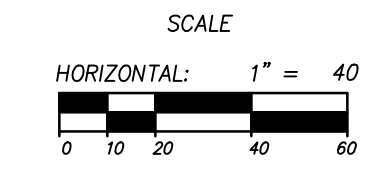
BURNINGHAM  
 XREFS:



DATE: 8/14/14 TIME: 4:45:45 PM DRAWING NAME: I:\PROJECTS\1400\PHASE 1\1400.P1-A  
 SERVER: NONE PAGE SETUP: I:\PROJECTS\1400\PHASE 1\1400.P1-A  
 PATH: H:\B07930\1400\PHASE 1\1400.P1-A REVISIONS: TB PROJ. MGR: RE



**HORIZON RUN**  
 STA: 31+00.00 TO 39+39.62



**SUMMIT EDEN PHASE 1A**

**DRY UTILITIES  
 HORIZON RUN**

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

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

SHEET NUMBER  
**6.02**

SCALE  
 VERTICAL: 1" = 40'  
 HORIZONTAL: 1" = N/A

JOB NUMBER  
**SLB079306**



NO.	BY	DATE	REVISIONS
1	RMC	8/27/2013	ADDendum 1
2	RMC	5/27/2014	WEBER COUNTY REVIEW REVISIONS
3	RMC	5/27/2014	WEBER COUNTY REVIEW
4	RMC	7/25/2014	COUNTY REVIEW

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.

BURNINGHAM  
 XREFS: