

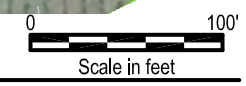
APPENDIX B



OVERALL SITE MAP

331 SILVERADO TRAIL, CALISTOGA, CA 94515

CONTOURS BASED ON NAPA COUNTY 2002 DIGITAL TERRAIN MODEL AND TOPOGRAPHIC MAPPING



BRIAN ARDEN WINERY
OVERALL SITE MAP FOR SITE PHOTOS
 CALISTOGA, CA

DELTA CONSULTING & ENGINEERING
 OF ST. HELENA
 1104 ADAMS STREET, SUITE 203 - ST. HELENA, CALIFORNIA 94574
 707-963-8456 + 707-963-8528 FAX

DATE: 1/12/12
 SCALE: AS NOTED
 JOB #: K-149
 APN: 011-050-030

1 OF 4



PHOTO 1

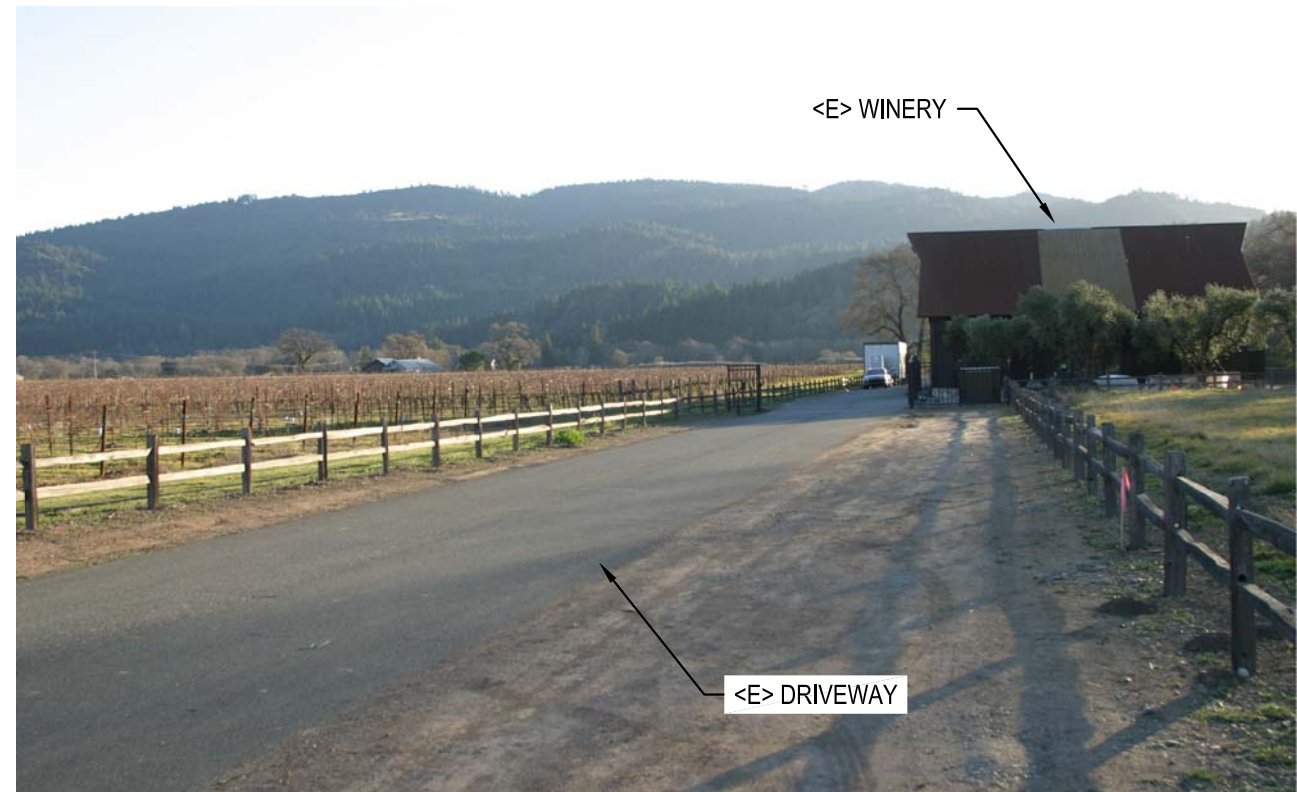


PHOTO 2



PHOTO 3

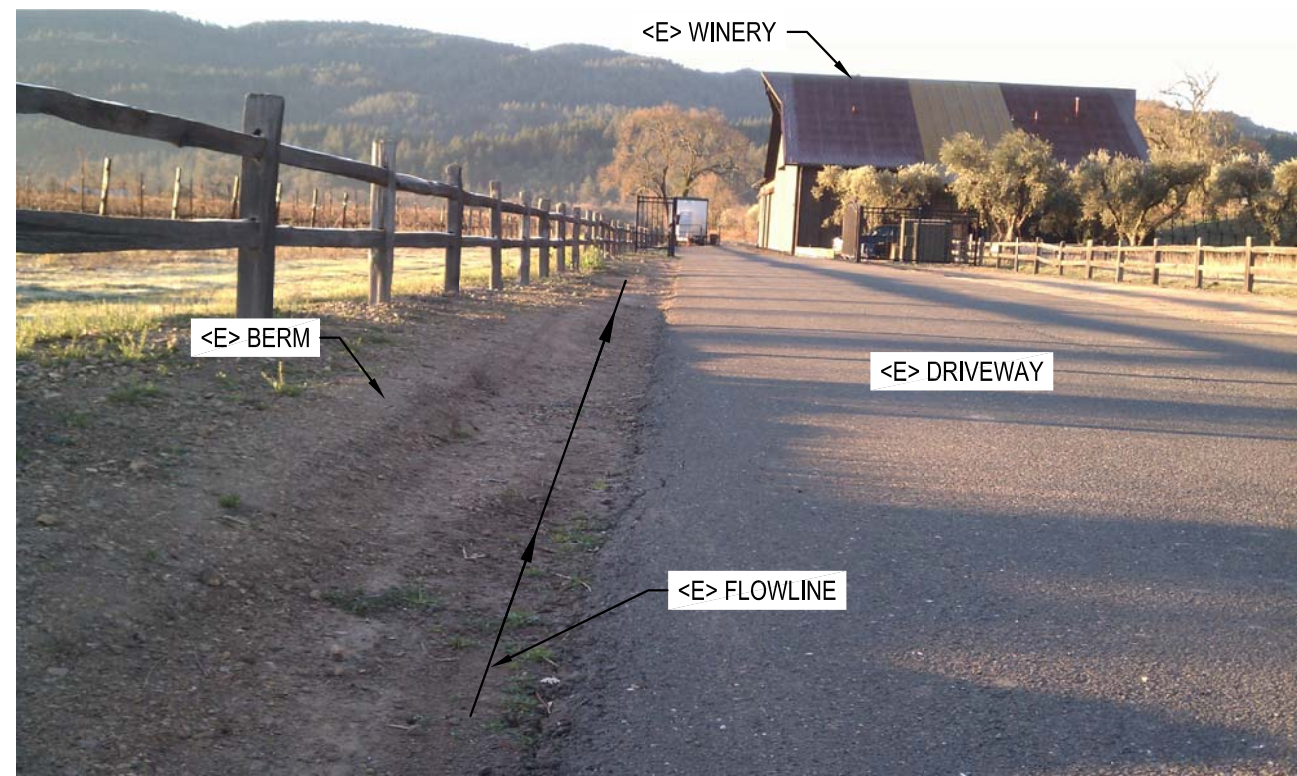


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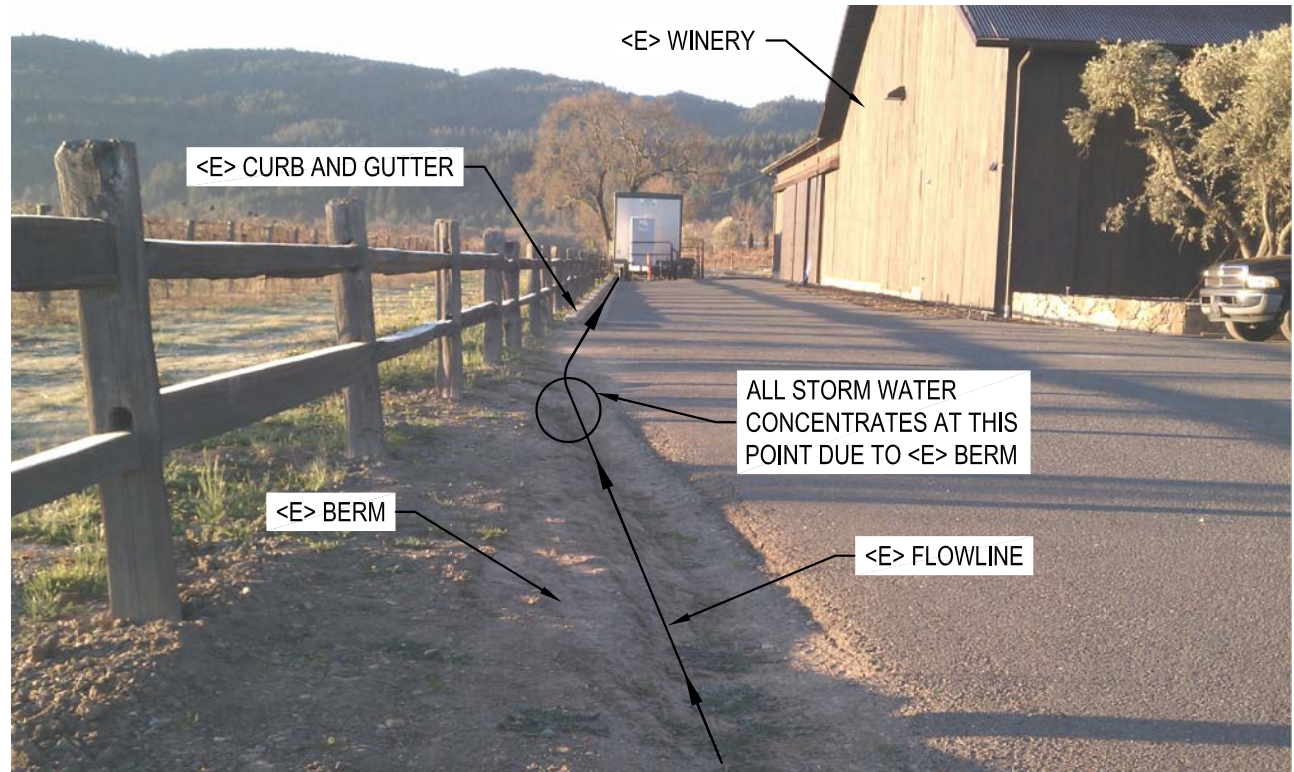


PHOTO 5



PHOTO 6

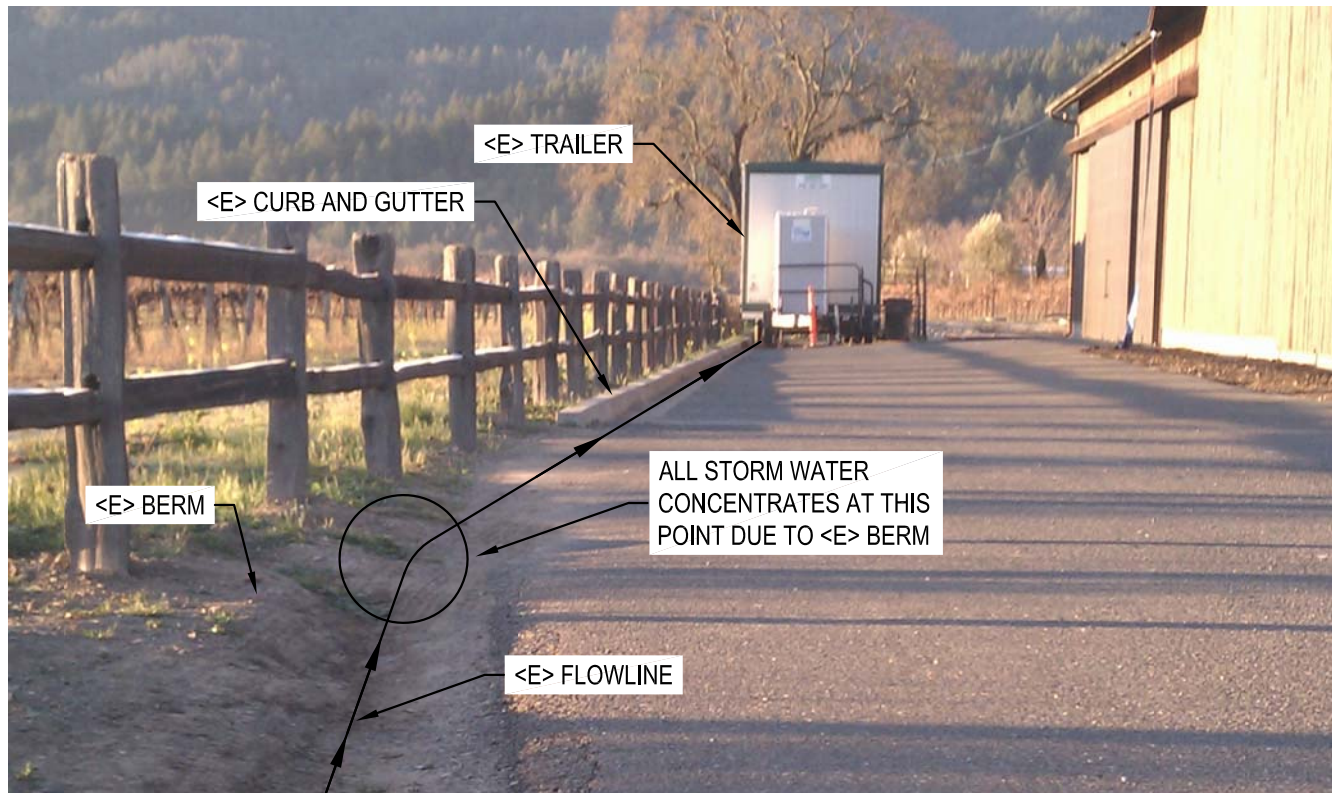


PHOTO 7 (CLOSE UP OF PHOTO 5)

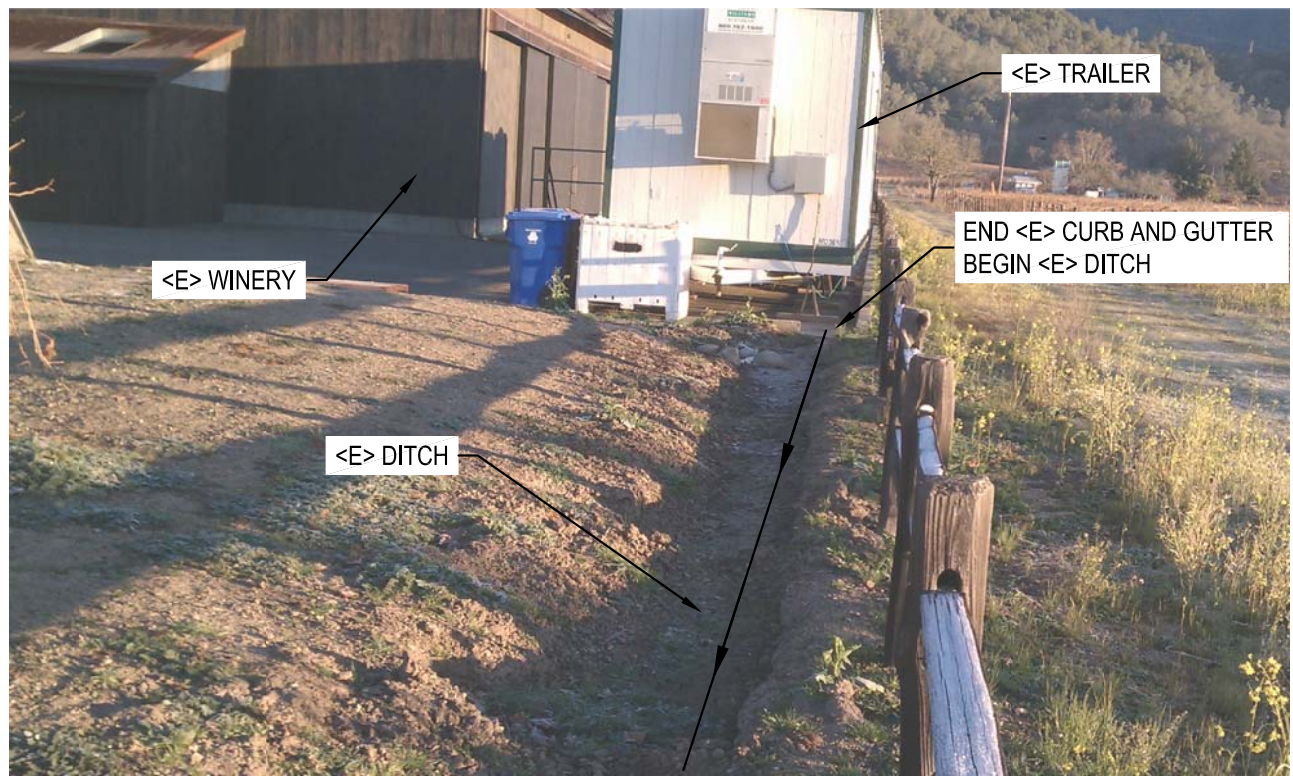


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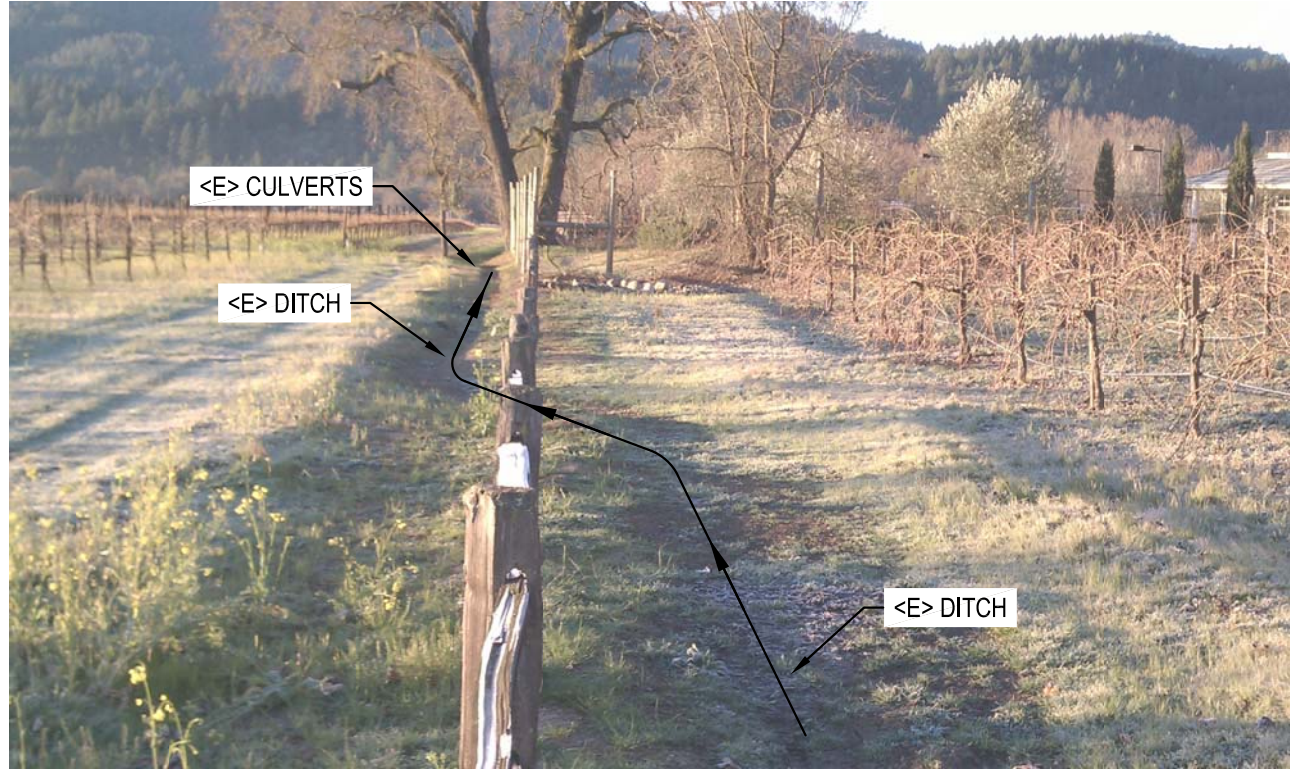


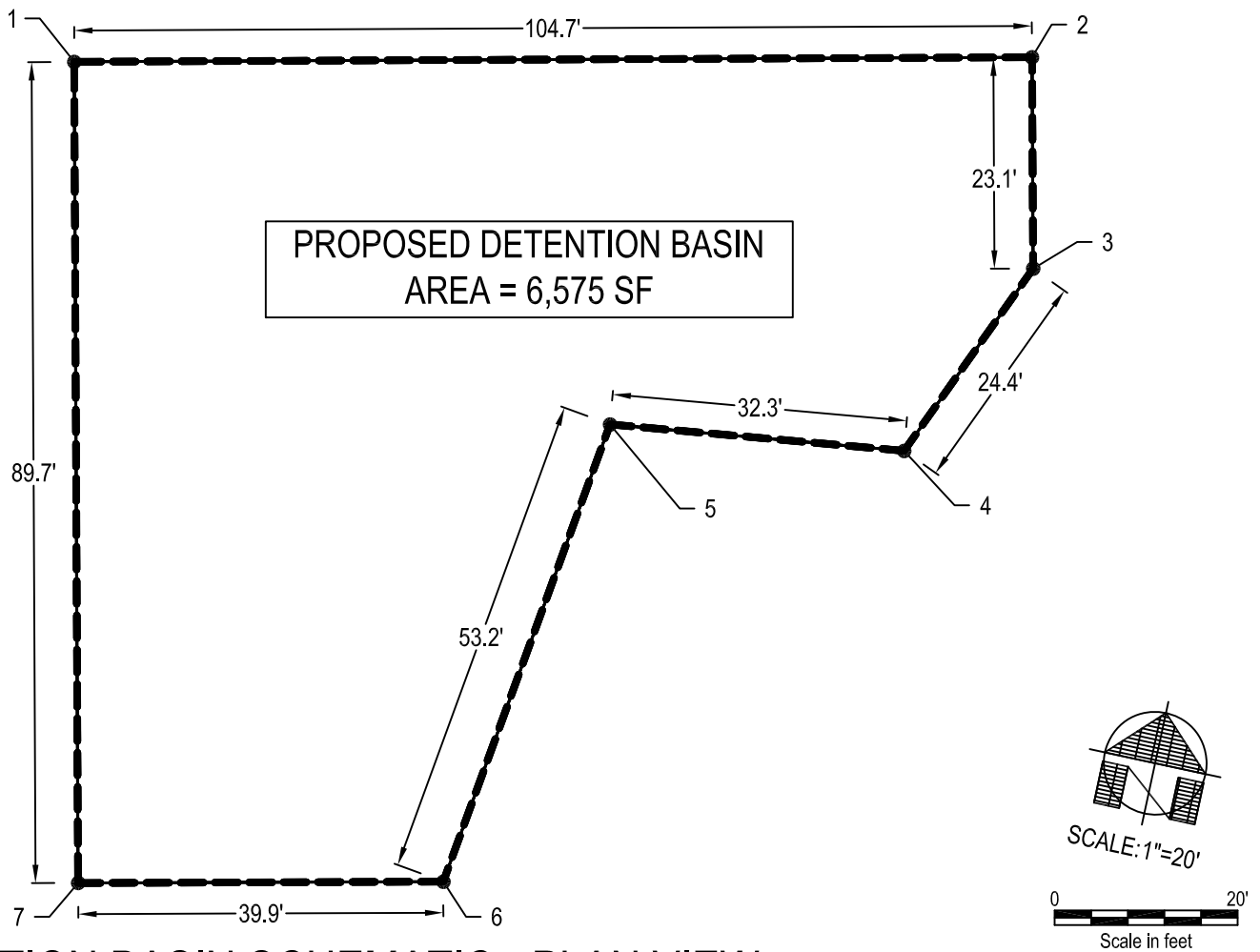
PHOTO 9



PHOTO 10



APPENDIX C



DETENTION BASIN SCHEMATIC - PLAN VIEW

BASIN PER USE PERMIT PLANS PREPARED BY JAMES L. CASSAYRE DATED 12/28/2011

SCALE: 1"=20'

VOLUME OF DETENTION ABOVE EXISTING GRADE

VOLUME BETWEEN EG AND BP ~ 7,128 CF

$(7,128 \text{ CF}) \times (0.494) \sim 3,520 \text{ CF}$

STORAGE AREA ABOVE EG ~ 3,520 CF

VOLUME OF DETENTION BELOW EXISTING GRADE

VOLUME BETWEEN EG AND RG ~ 9,524 CF

$(9,524 \text{ CF}) \times (0.494) \sim 4,704 \text{ CF}$

STORAGE AREA BELOW EG ~ 4,704 CF

DETENTION BASIN CALCULATIONS

1. FG ~ 353.75 BP ~ 352.98 * OE = 351.80 EG = 352.26 RG ~ 349.00 $\Delta Z_{OE-EG1} \sim 0.72'$ $\Delta Z_{EG1-RG1} \sim 3.26'$	3. FG ~ 352 BP ~ 351.23 EG = 349.21 RG ~ 349.00 $\Delta Z_{BP1-EG1} \sim 2.02'$ $\Delta Z_{EG1-RG1} \sim 0.21'$	5. FG ~ 352.1 BP ~ 351.33 EG = 349.22 RG ~ 349.00 $\Delta Z_{BP1-EG1} \sim 2.11'$ $\Delta Z_{EG1-RG1} \sim 0.22'$
2. FG ~ 352.8 BP ~ 352.03 * OE = 351.80 EG = 349.39 RG ~ 349.00 $\Delta Z_{BP1-EG1} \sim 2.64'$ $\Delta Z_{EG1-RG1} \sim 0.39'$	4. FG ~ 350.5 BP ~ 349.73 EG = 349.10 RG ~ 348.6 $\Delta Z_{BP1-EG1} \sim 0.63'$ $\Delta Z_{EG1-RG1} \sim 0.5'$	6. FG ~ 352.8 BP ~ 352.03 * OE = 351.80 EG = 350.87 RG ~ 349.00 $\Delta Z_{BP1-EG1} \sim 1.16'$ $\Delta Z_{EG1-RG1} \sim 1.87'$

LEGEND

FG = FINISH GRADE EG = EXISTING GRADE
BP = BASE PAVING RG = ROUGH GRADE
OE = OVERFLOW RIM ELEVATION

DETENTION BASIN ELEVATIONS

NOTE: BP ASSUMED TO BE 9.25" BELOW FG
*: ELEVATION REDUCED FROM BP TO OE TO ACCOUNT FOR OVERFLOW PIPE

BRIAN ARDEN WINERY DETENTION BASIN CALCULATIONS

DELTA CONSULTING & ENGINEERING OF ST. HELENA 1104 ADAMS STREET, SUITE 203 - ST. HELENA, CALIFORNIA 94574 707-963-8456 + 707-963-8528 FAX		SHEET
DATE: 01-12-2012	JOB # K-149	1
SCALE: 1"=20'	APN: 011-050-030	OF 1



APPENDIX D

Runoff Curve Number

	Description	Condition	A	B	C	D	Condensed Description
1	FULLY DEVELOPED URBAN AREAS	Vegetation					
2	Open space (lawns, parks, etc.)						
3	grass cover < 50%	Poor	68	79	86	89	< 50% grass cover
4	grass cover 50% to 75%	Fair	49	69	79	84	50 - 75% grass cover
5	grass cover > 75%	Good	39	61	74	80	> 75% grass cover
6	Impervious Areas						
7	Paved parking lots, roofs, driveways		98	98	98	98	Paved parking & roofs
8	Streets and roads						
9	Paved: curbs and storm sewers		98	98	98	98	Paved roads with curbs & sewers
10	Paved: open ditches (with right-of-way)	50% imp	83	89	92	93	Paved roads with open ditches
11	Gravel (with right-of-way)		76	85	89	91	Gravel roads
12	Dirt (with right-of-way)		72	82	87	89	Dirt roads
13	Urban Districts	impervious					
14	Commercial & business	85% imp	89	92	94	95	Urban commercial
15	Industrial	72% imp	81	88	91	93	Urban industrial
16	Residential Districts						
17	(by average lot size)	impervious					
18	1/8 acre (town houses)	65% impervious	77	85	90	92	1/8 acre lots
19	1/4 acre	38% impervious	61	75	83	87	1/4 acre lots
20	1/3 acre	30% impervious	57	72	81	86	1/3 acre lots
21	1/2 acre	25% impervious	54	70	80	85	1/2 acre lots
22	1 acre	20% impervious	51	68	79	84	1 acre lots
23	2 acre	12% impervious	46	65	77	82	2 acre lots
24	Western Desert Urban Areas						
25	Natural desert (pervious areas only)		63	77	85	88	Natural western desert
26	Artificial desert landscaping		96	96	96	96	Artificial desert landscape
27	DEVELOPING URBAN AREA	(No Vegetation)					
28	Newly graded area (pervious only)		77	86	91	94	Newly graded area
29	CULTIVATED AGRICULTURAL LAND						
30	Fallow						
31	Bare soil		77	86	91	94	Fallow, bare soil
32	Crop residue (CR)	Poor	76	85	90	93	Fallow, crop residue
33	Crop residue (CR)	Good	74	83	88	90	Fallow, crop residue
34	Row crops						
35	Straight row (SR)	Poor	72	81	88	91	Row crops, straight row
36	Straight row (SR)	Good	67	78	85	89	Row crops, straight row
37	SR + Crop residue	Poor	71	80	87	90	Row crops, SR + CR
38	SR + Crop residue	Good	64	75	82	85	Row crops, SR + CR
39	Contoured (C)	Poor	70	79	84	88	Row crops, contoured
40	Contoured (C)	Good	65	75	82	86	Row crops, contoured
41	C + Crop residue	Poor	69	78	83	87	Row crops, C + CR
42	C + Crop residue	Good	64	74	81	85	Row crops, C + CR
43	Contoured & terraced (C&T)	Poor	66	74	80	82	Row crops, C&T
44	Contoured & terraced (C&T)	Good	62	71	78	81	Row crops, C&T
45	C&T + Crop residue	Poor	65	73	79	81	Row crops, C&T + CR
46	C&T + Crop residue	Good	61	70	77	80	Row crops, C&T + CR
47	Small grain						
48	Straight row (SR)	Poor	65	76	84	88	Small grain, straight row
49	Straight row (SR)	Good	63	75	83	87	Small grain, straight row

50	SR + Crop residue	Poor	64	75	83	86	Small grain, SR + CR
51	SR + Crop residue	Good	60	72	80	84	Small grain, SR + CR
52	Contoured (C)	Poor	63	74	82	85	Small grain, contoured
53	Contoured (C)	Good	61	73	81	84	Small grain, contoured
54	C + Crop residue	Poor	62	73	81	84	Small grain, C + CR
55	C + Crop residue	Good	60	72	80	83	Small grain, C + CR
56	Contoured & terraced (C&T)	Poor	61	72	79	82	Small grain, C&T
57	Contoured & terraces (C&T)	Good	59	70	78	81	Small grain, C&T
58	C&T + Crop residue	Poor	60	71	78	81	Small grain, C&T + CR
59	C&T + Crop residue	Good	58	69	77	80	Small grain, C&T + CR
60	Close-seeded legumes/rotated meadow						
61	Straight row	Poor	66	77	85	89	Legumes, straight row
62	Straight row	Good	58	72	81	85	Legumes, straight row
63	Contoured	Poor	64	75	83	85	Legumes, contoured
64	Contoured	Good	55	69	78	83	Legumes, contoured
65	Contoured & terraced	Poor	63	73	80	83	Legumes, C&T
66	Contoured & terraced	Good	51	67	76	80	Legumes, C&T
67	OTHER AGRICULTURAL LAND						
68	Pasture, grassland, or range	Poor	68	79	86	89	Pasture, grassland, or range
69		Fair	49	69	79	84	Pasture, grassland, or range
70		Good	39	61	74	80	Pasture, grassland, or range
71	Meadow, continuous grass, non-grazed		30	58	71	78	Meadow, non-grazed
72	Brush or brush/weed/grass mixture	Poor	48	67	77	83	Brush
73		Fair	35	56	70	77	Brush
74		Good	30	48	65	73	Brush
75	Woods & grass combination	Poor	57	73	82	86	Woods & grass combination
76		Fair	43	65	76	82	Woods & grass combination
77		Good	32	58	72	79	Woods & grass combination
78	Woods	Poor	45	66	77	83	Woods
79		Fair	36	60	73	79	Woods
80		Good	30	55	70	77	Woods
81	Farmsteads		59	74	82	86	Farmsteads
82	ARID AND SEMIARID RANGELAND						
83	Herbaceous	Poor	80	87	93	Herbaceous range	
84		Fair	71	81	89	Herbaceous range	
85		Good	62	74	85	Herbaceous range	
86	Oak & Aspen	Poor	66	74	79	Oak & Aspen range	
87		Fair	48	57	63	Oak & Aspen range	
88		Good	30	41	48	Oak & Aspen range	
89	Pinyon & Juniper	Poor	75	85	89	Pinyon & Juniper range	
90		Fair	58	73	80	Pinyon & Juniper range	
91		Good	41	61	71	Pinyon & Juniper range	
92	Sagebrush (w/grass understory)	Poor	67	80	85	Sagebrush range	
93		Fair	51	63	70	Sagebrush range	
94		Good	35	47	55	Sagebrush range	
95	Desert shrub	Poor	63	77	85	88	Desert shrub range
96		Fair	55	72	81	86	Desert shrub range
97		Good	49	68	79	84	Desert shrub range

Table per StormNET by Boss International

Runoff Curve Numbers

[Top of Page](#)

The following table of runoff curve numbers (CN) has been condensed from Tables 2-2(a-d) of SCS (1986), which is an exhaustive listing of runoff curve numbers. The hydrologic soil group refers to the infiltration potential of the soil after prolonged wetting.

Group A Soils: High infiltration (low runoff). Sand, loamy sand, or sandy loam. Infiltration rate > 0.3 inch/hr when wet.

Group B Soils: Moderate infiltration (moderate runoff). Silt loam or loam. Infiltration rate 0.15 to 0.3 inch/hr when wet.

Group C Soils: Low infiltration (moderate to high runoff). Sandy clay loam. Infiltration rate 0.05 to 0.15 inch/hr when wet.

Group D Soils: Very low infiltration (high runoff). Clay loam, silty clay loam, sandy clay, silty clay, or clay. Infiltration rate 0 to 0.05 inch/hr when wet.

Good vs. Fair vs. Poor

Determination is Based on Percent of Residue on the Land Surface:

Good:

- >75% ground cover

- Woods are protected from grazing, litter and brush adequately cover the soil

Fair:

- 25-50% ground cover

- Lightly or occasionally grazed

Poor:

- <25% ground cover

- Grazing or other ground clearing occurs semi-regularly

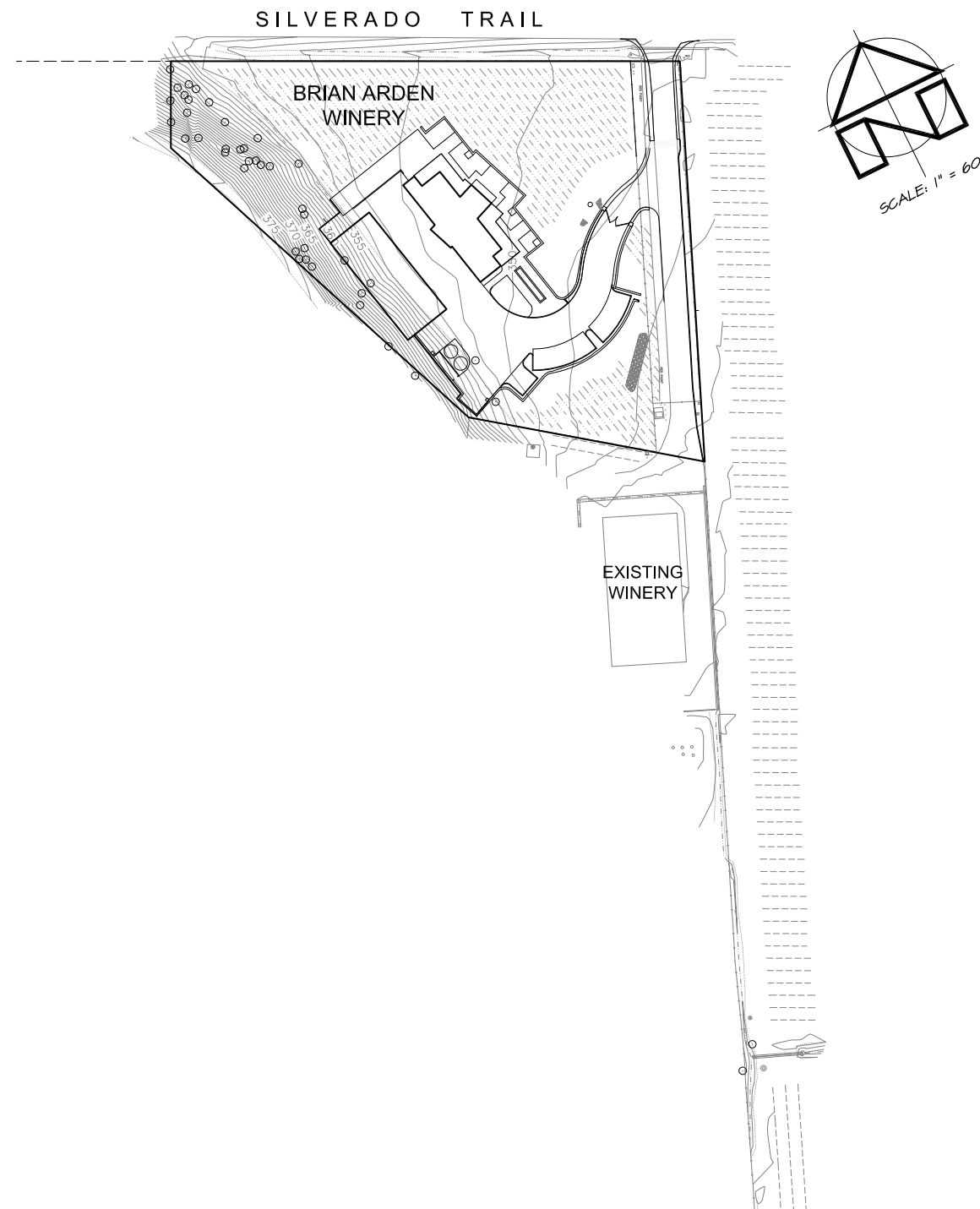
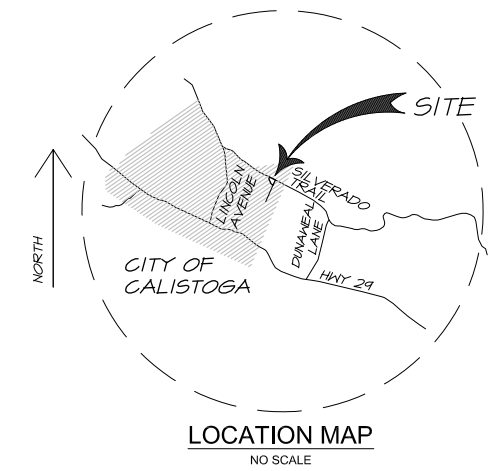
StormNET Runoff Coefficient Table - Rational Method

Land Use	Return Period	A(0-2%)	A(2-6%)	A(6%+)	B(0-2%)	B(2-6%)	B(6%+)	C(0-2%)	C(2-6%)	C(6%+)	D(0-2%)	D(2-6%)	D(6%+)
Cultivated Land	less than 25 years	0.08	0.13	0.16	0.11	0.15	0.21	0.14	0.19	0.26	0.18	0.23	0.31
Cultivated Land	25 years or greater	0.14	0.18	0.22	0.16	0.21	0.28	0.2	0.25	0.34	0.24	0.29	0.41
Pasture	less than 25 years	0.12	0.2	0.3	0.18	0.28	0.37	0.24	0.34	0.44	0.3	0.4	0.5
Pasture	25 years or greater	0.15	0.25	0.37	0.23	0.34	0.45	0.3	0.42	0.52	0.37	0.5	0.62
Meadow	less than 25 years	0.1	0.16	0.25	0.14	0.22	0.3	0.2	0.28	0.36	0.24	0.3	0.4
Meadow	25 years or greater	0.14	0.22	0.3	0.2	0.28	0.37	0.26	0.35	0.44	0.3	0.4	0.5
Forest	less than 25 years	0.05	0.08	0.11	0.08	0.11	0.14	0.1	0.13	0.16	0.12	0.16	0.2
Forest	25 years or greater	0.08	0.11	0.14	0.1	0.14	0.18	0.12	0.16	0.2	0.15	0.2	0.25
Residential Lot Size 1/8 Acre	less than 25 years	0.25	0.28	0.31	0.27	0.3	0.35	0.3	0.33	0.38	0.33	0.36	0.42
Residential Lot Size 1/8 Acre	25 years or greater	0.33	0.37	0.4	0.35	0.39	0.44	0.38	0.42	0.49	0.41	0.45	0.54
Residential Lot Size 1/4 Acre	less than 25 years	0.22	0.26	0.29	0.24	0.29	0.33	0.27	0.31	0.36	0.3	0.34	0.4
Residential Lot Size 1/4 Acre	25 years or greater	0.3	0.34	0.37	0.33	0.37	0.42	0.36	0.4	0.47	0.38	0.42	0.52
Residential Lot Size 1/3 Acre	less than 25 years	0.19	0.23	0.26	0.22	0.26	0.3	0.25	0.29	0.34	0.28	0.32	0.39
Residential Lot Size 1/3 Acre	25 years or greater	0.28	0.32	0.35	0.3	0.35	0.39	0.33	0.38	0.45	0.36	0.4	0.5
Residential Lot Size 1/2 Acre	less than 25 years	0.16	0.2	0.24	0.19	0.23	0.28	0.22	0.27	0.32	0.26	0.3	0.37
Residential Lot Size 1/2 Acre	25 years or greater	0.25	0.29	0.32	0.28	0.32	0.36	0.31	0.35	0.42	0.34	0.38	0.48
Residential Lot Size 1 Acre	less than 25 years	0.14	0.19	0.22	0.17	0.21	0.26	0.2	0.25	0.31	0.24	0.29	0.35
Residential Lot Size 1 Acre	25 years or greater	0.22	0.26	0.29	0.24	0.28	0.34	0.28	0.32	0.4	0.31	0.35	0.46
Industrial	less than 25 years	0.67	0.68	0.68	0.68	0.68	0.69	0.68	0.69	0.69	0.69	0.69	0.7
Industrial	25 years or greater	0.85	0.85	0.86	0.85	0.86	0.86	0.86	0.86	0.87	0.86	0.86	0.88
Commercial	less than 25 years	0.71	0.71	0.72	0.71	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Commercial	25 years or greater	0.88	0.88	0.89	0.89	0.89	0.89	0.89	0.89	0.9	0.89	0.89	0.9
Streets	less than 25 years	0.7	0.71	0.72	0.71	0.72	0.74	0.72	0.73	0.76	0.73	0.75	0.78
Streets	25 years or greater	0.76	0.77	0.79	0.8	0.82	0.84	0.84	0.85	0.89	0.89	0.91	0.95
Open Space	less than 25 years	0.05	0.1	0.14	0.08	0.13	0.19	0.12	0.17	0.24	0.16	0.21	0.28
Open Space	25 years or greater	0.11	0.16	0.2	0.14	0.19	0.26	0.18	0.23	0.32	0.22	0.27	0.39
Parking	less than 25 years	0.85	0.86	0.87	0.85	0.86	0.87	0.85	0.86	0.87	0.85	0.86	0.87
Parking	25 years or greater	0.95	0.96	0.97	0.95	0.96	0.97	0.95	0.96	0.97	0.95	0.96	0.97

APPENDIX E

BRIAN ARDEN WINERY USE PERMIT PLAN

CALISTOGA CALIFORNIA



NOTES

OWNERS: BURT HARLAN
BRIAN HARLAN

SITE ADDRESS: SILVERADO TRAIL
CALISTOGA, CA

EXISTING USE: VACANT

PROPOSED USE: WINERY

WATER: CITY OF CALISTOGA

SEWER: CITY OF CALISTOGA

INDEX

SHEET NO	DESCRIPTION
1	COVER SHEET
2	SITE PLAN
3	GRADING PLAN
4	UTILITY PLAN
5	UTILITY SOUTH & DETAILS
6	DETAILS
7	DETAILS

**LEGENDS
ABBREVIATIONS**

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
BFPD	BACKFLOW PREVENTION DEVICE
BM	BENCHMARK
BO	BLACK OAK
BSW	BACK OF SIDEWALK
CL	CENTERLINE
CO	CLEANOUT
DI	DROP INLET
EC	CONCRETE ELEVATION
ELL	ELBOW
EP	EDGE OF PAVEMENT
(E)	EXIST. FEATURE
Ex.	EXIST. FEATURE
FC	FACE OF CURB
FDC	FIRE DEPT. CONNECTION
FG	FINISH GRADE
FF	FINISH FLOOR
FH	FIRE HYDRANT
FL	FLOW LINE
GB	GRADE BREAK
HP	HIGH POINT
INV	INVERT OF PIPE
LO	LIVE OAK
NDS	NDS DRAINAGE PRODUCTS
OG	ORIGINAL GROUND
PERF	PERFORATED
PIV	POST INDICATOR VALVE
PL	PROPERTY LINE
PG&E	PACIFIC GAS ELEG
PP	POWER POLE
PUE	PUBLIC UTILITY ESMT
PW	PROCESSED WASTE
R	RADIUS OR RADIUS PT.
RCP	REINFORCED CONCRETE PIPE
R/W	PUBLIC RIGHT OF WAY
S	SLOPE (FOOT/FOOT)
SBD	SUBDRAIN
SD	STORM DRAIN
SS	SANITARY SEWER
STD	STANDARD
S/W	SIDEWALK
TC	TOP OF CURB
TR	TOP OF ROCK (CHIP SEAL)
TYP	TYPICAL
WM	WATER METER

LEGEND

	ASPHALT PAVING
	CONCRETE
	CHIP SEAL
	EXISTING CONTOURS
	PROPOSED CONTOURS
	PROPOSED SPOT ELEV.
	FIBER ROLL HATTLE
	FIBER ROLL CHECK
	DOUBLE CHECK VALVE
	POST INDICATOR VALVE
	FIRE DEPT. CONNECTION
	FIRE HYDRANT
	HYDRANT ASSEMBLY
	VALVE
	THRUST BLOCK
	CLEANOUT



**JAMES L. CASSAYRE
ENGINEER**

3142 BROWNS VALLEY RD. NAPA, CA 94558 707-226-5241

BRIAN ARDEN WINERY

CALISTOGA, CA 945

COVER SHEET

design: JLC

drawn: GG

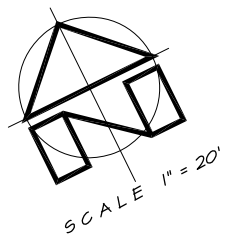
18 JAN 2012

11-04

1

OF 7 SHEETS

SILVERADO TRAIL

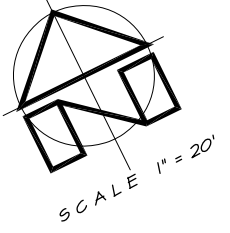
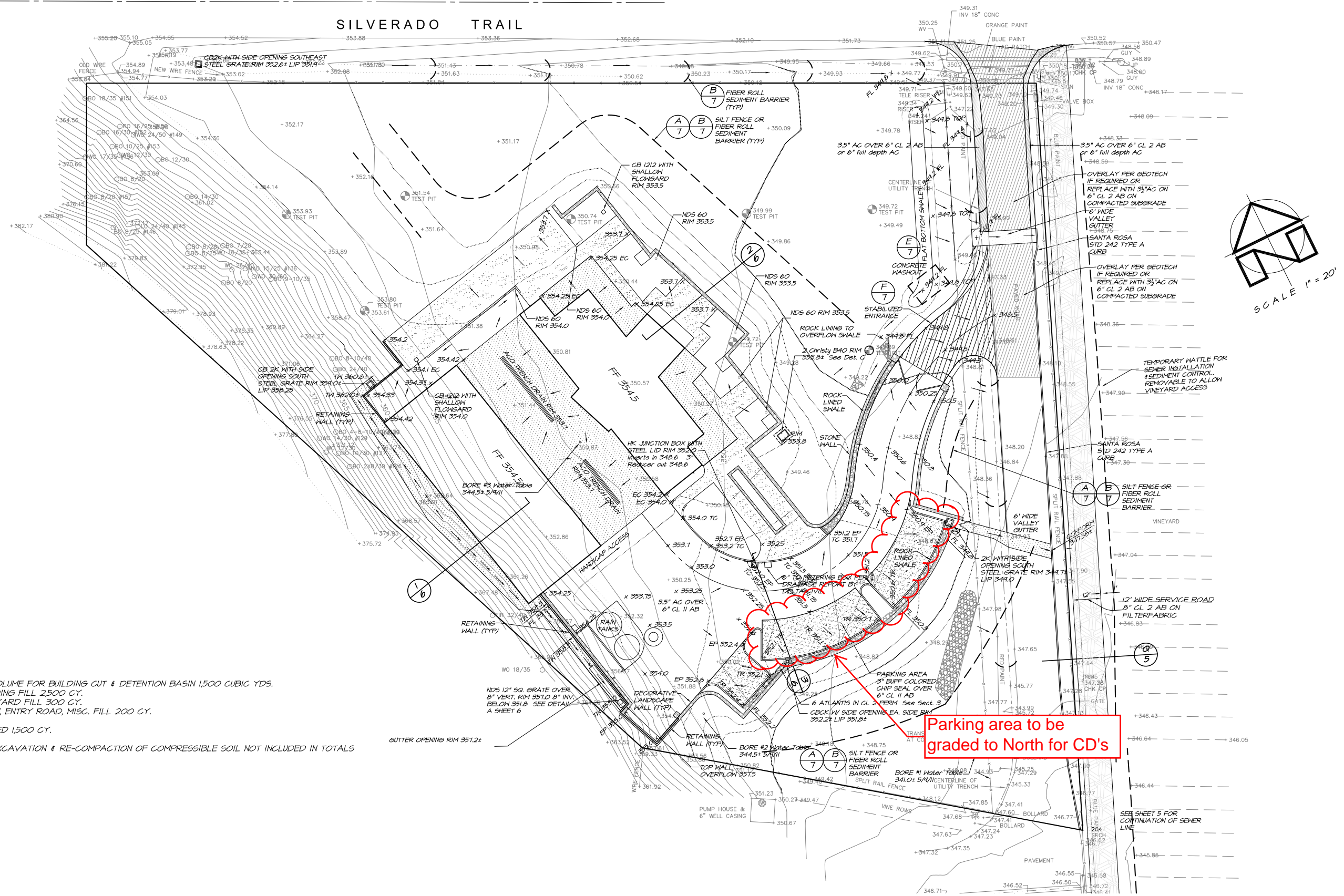


JAMES L. CASSAYRE
ENGINEER
 3142 BROWNS VALLEY RD. NAPA, CA 94558 707-226-5241

BRIAN ARDEN WINERY
 CALISTOGA, CA 945
 SITE PLAN

design: JLC	2 OF 7 SHEETS
drawn: GG	
18 JAN 2012	
11-04	

SILVERADO TRAIL



EXCAVATION VOLUME FOR BUILDING CUT & DETENTION BASIN 1,500 CUBIC YDS.
 REQUIRED BUILDING FILL 2,500 CY.
 REQUIRED VINEYARD FILL 300 CY.
 REQUIRED BERM, ENTRY ROAD, MISC. FILL 200 CY.
 IMPORT REQUIRED 1,500 CY.
 NOTE: OVER-EXCAVATION & RE-COMPACTION OF COMPRESSIBLE SOIL NOT INCLUDED IN TOTALS

Parking area to be graded to North for CD's

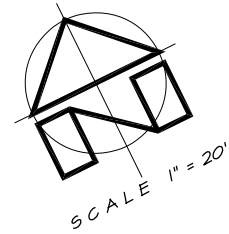
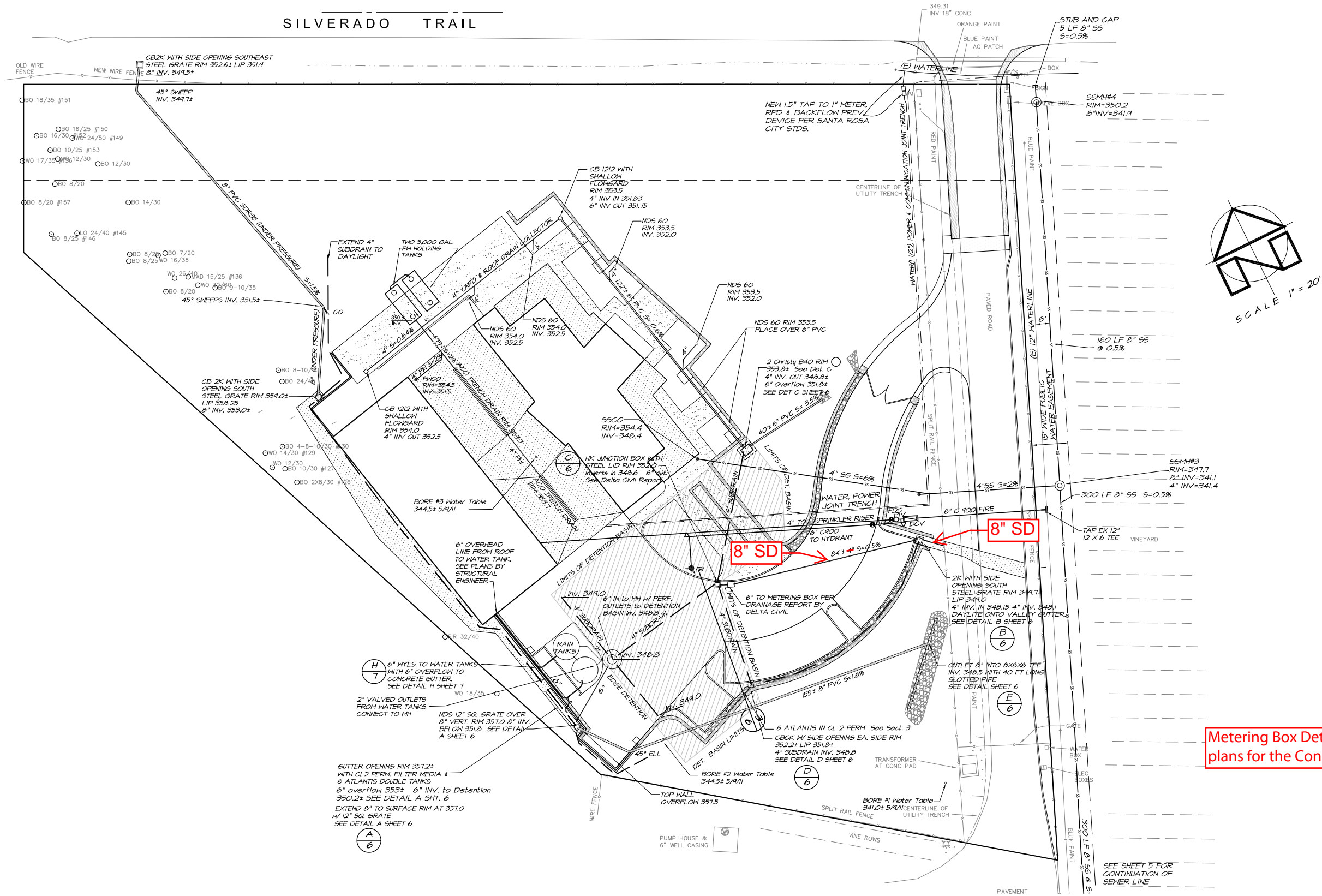


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 3142 BROWNS VALLEY RD. NAPA, CA 94558 707-226-5241

BRIAN ARDEN WINERY
 CALISTOGA, CA 945
 GRADING AND EROSION CONTROL PLAN

design: JLC
 drawn: GG
 10 JAN 2012
 11-04

SILVERADO TRAIL

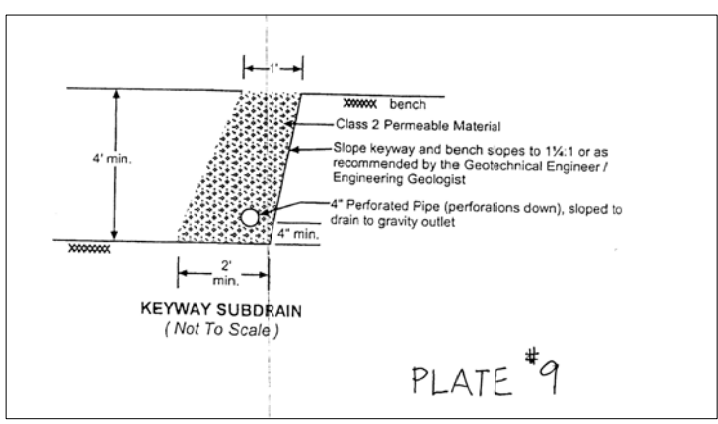
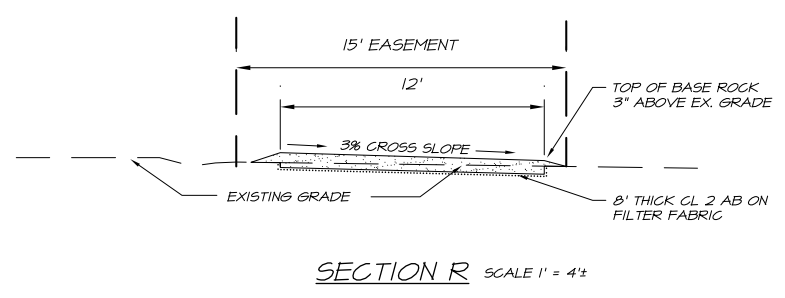
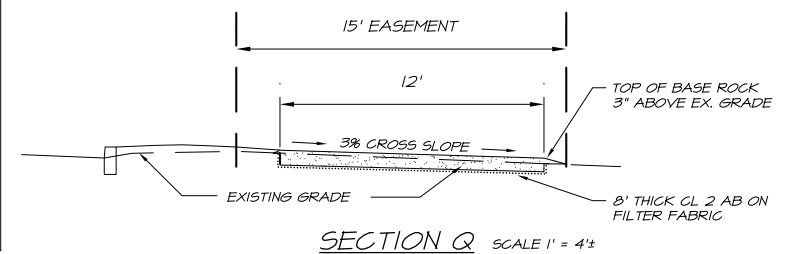
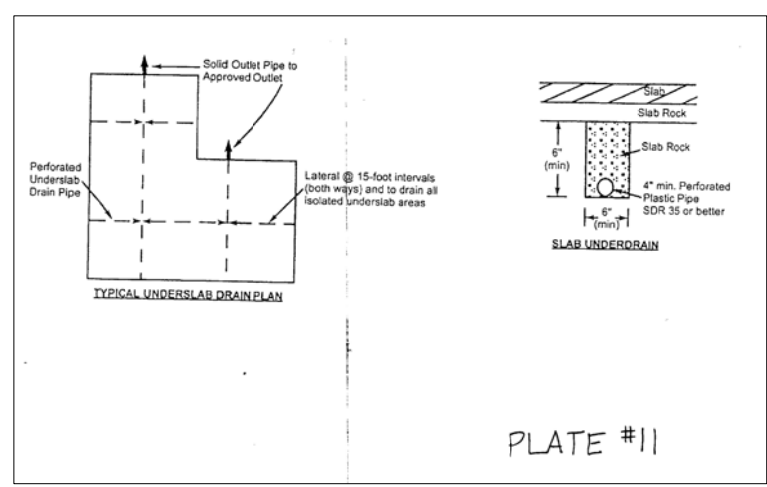
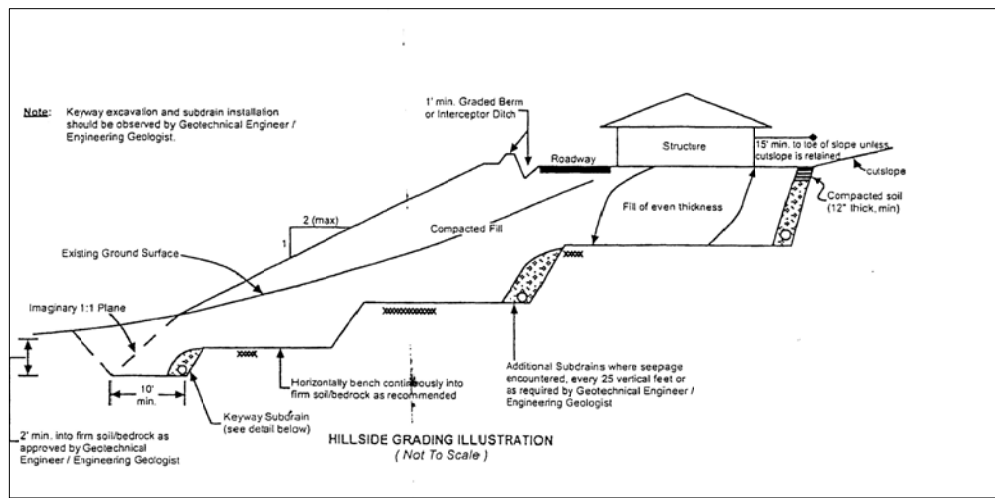
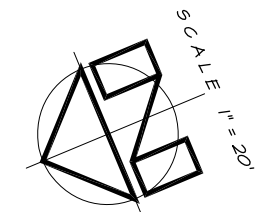
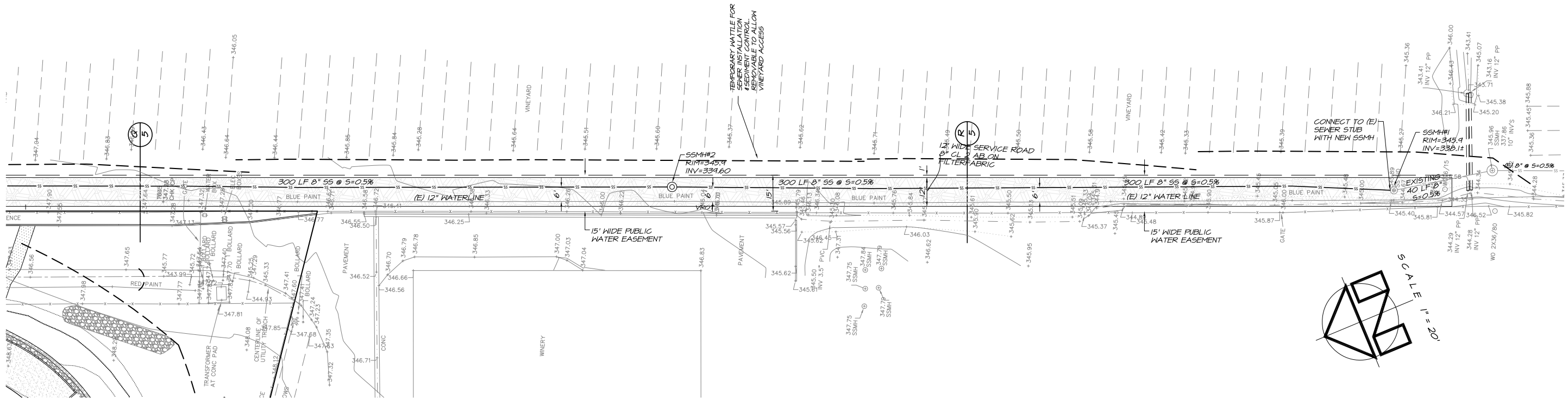


Metering Box Details will be added to plans for the Construction Documents



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BRIAN ARDEN WINERY		design: JLC	4 OF 7 SHEETS
CALISTOGA, CA 945		drawn: GG	
UTILITY PLAN		10 JAN 2012	
		11-04	

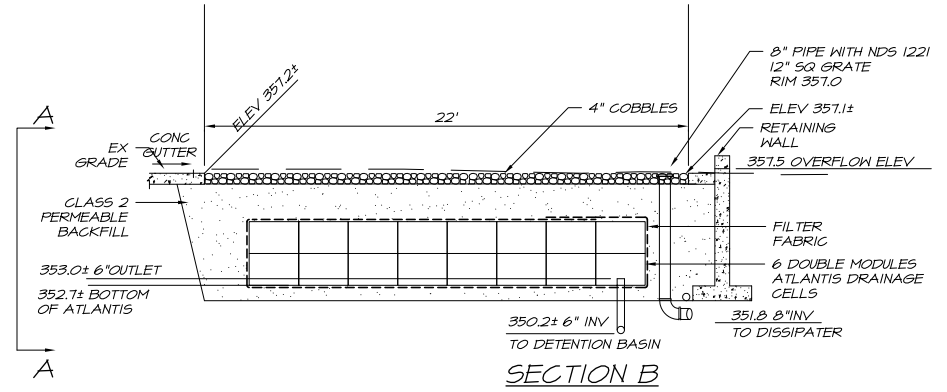
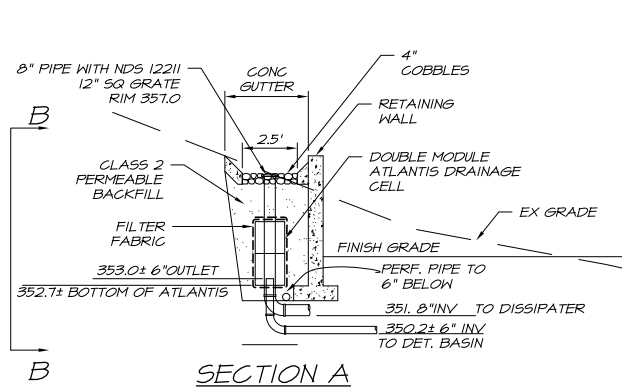
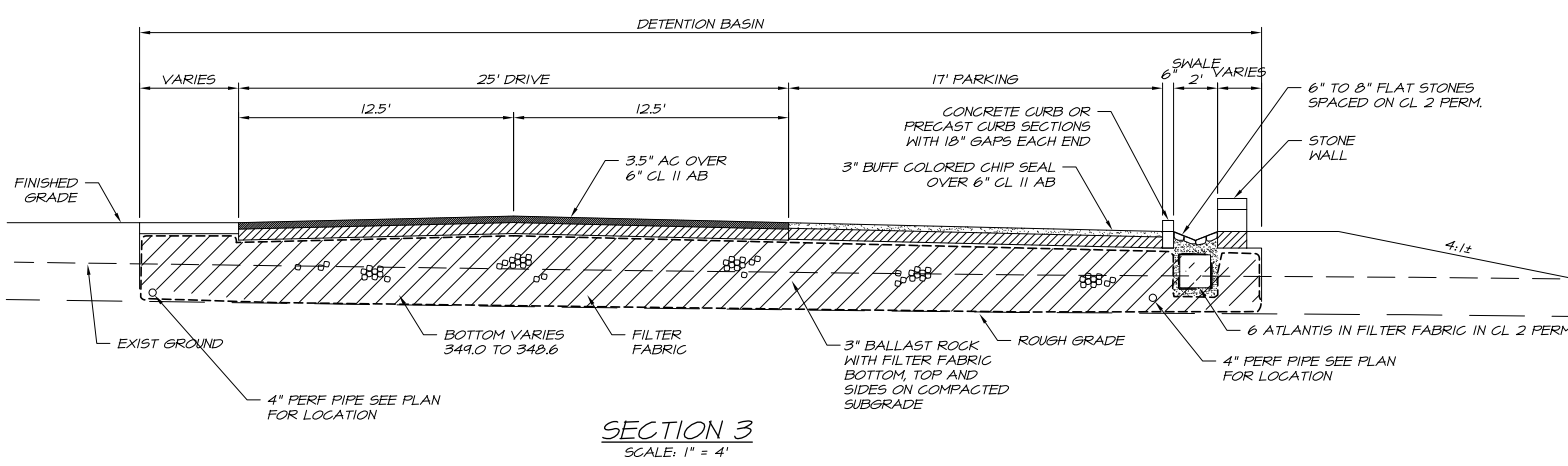
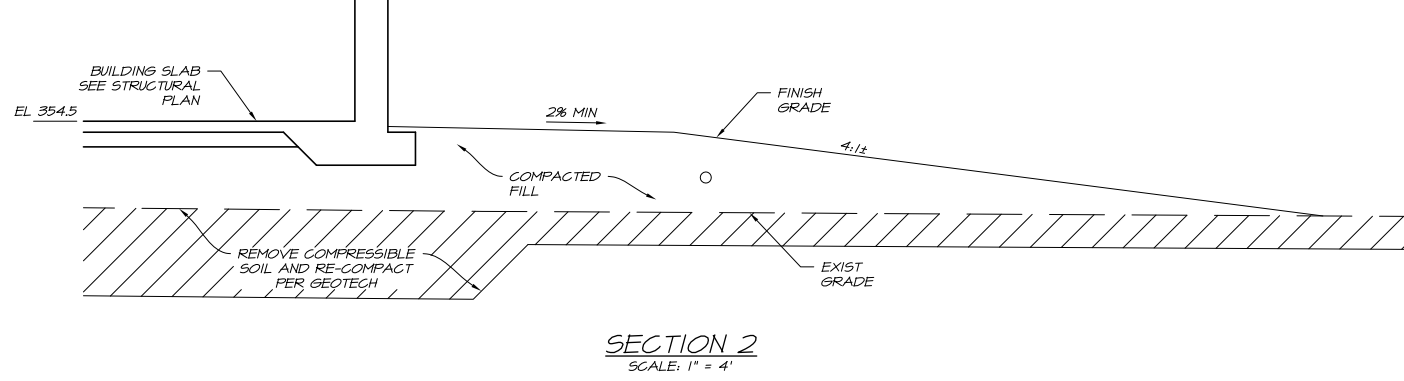
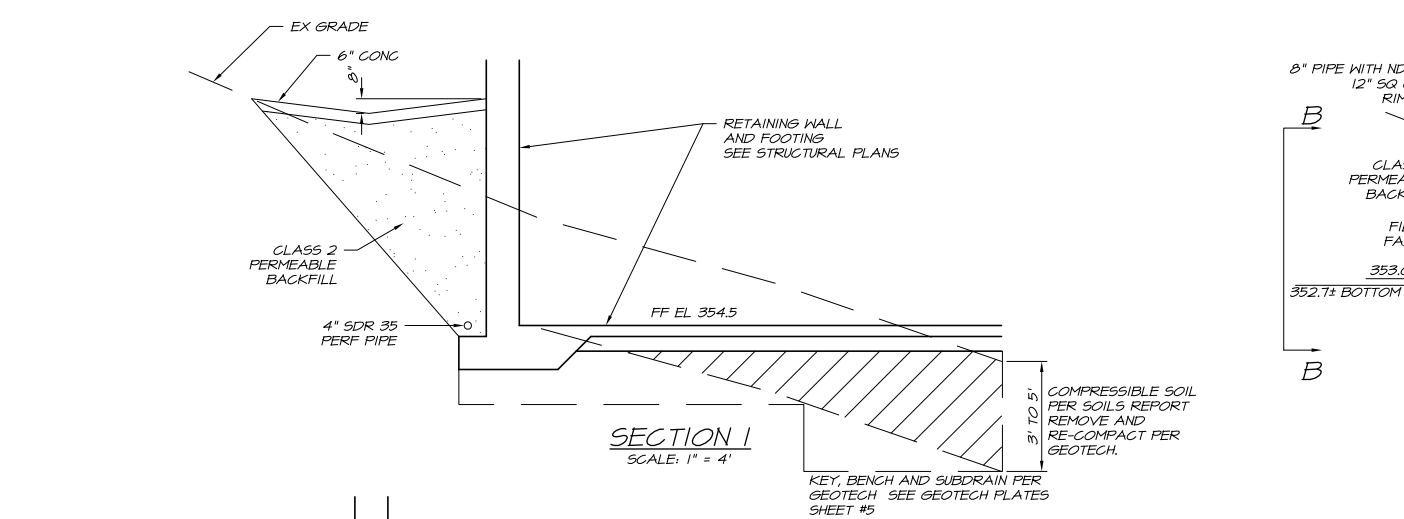


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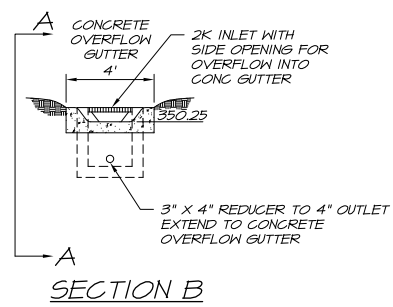
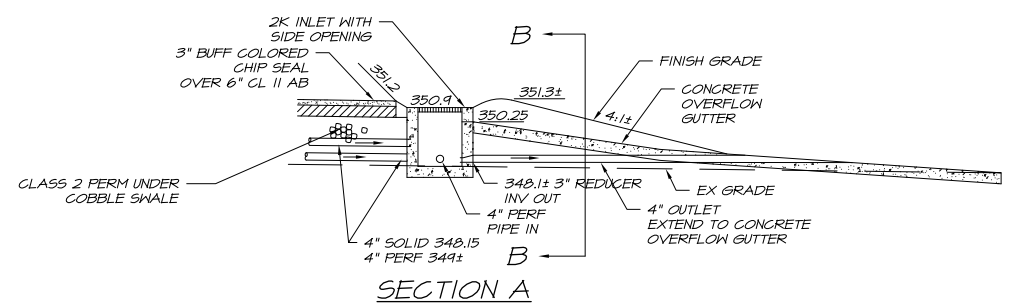
BRIAN ARDEN WINERY
 CALISTOGA, CA 945
 SENER PLAN SOUTH

design: JLC	5 OF 7 SHEETS
drawn: GG	
10 JAN 2012	

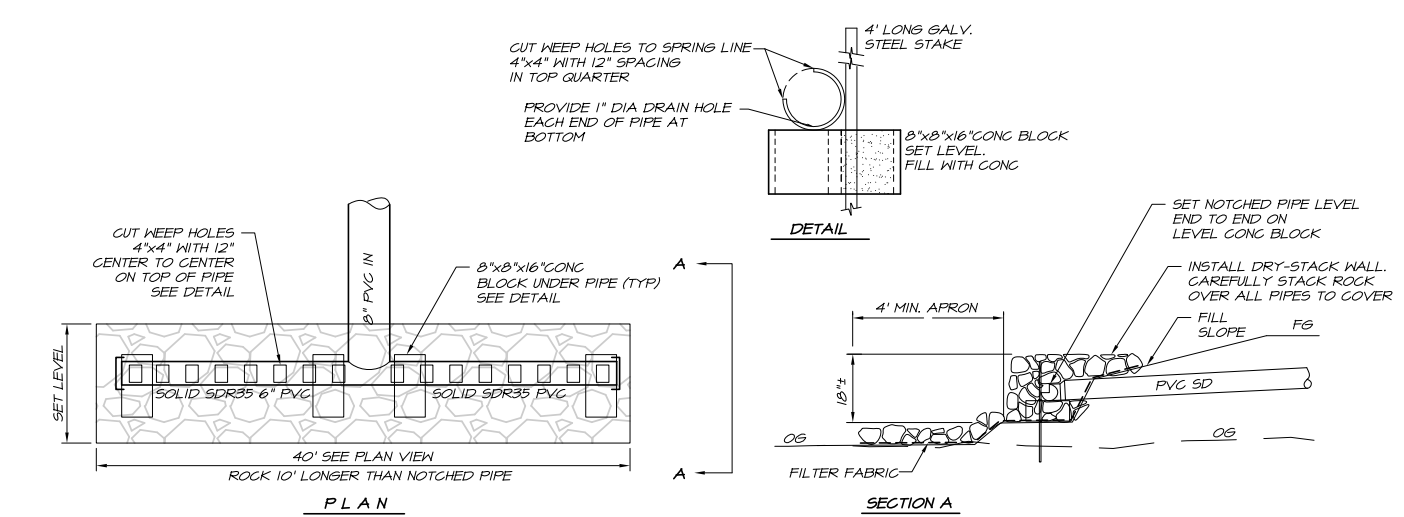
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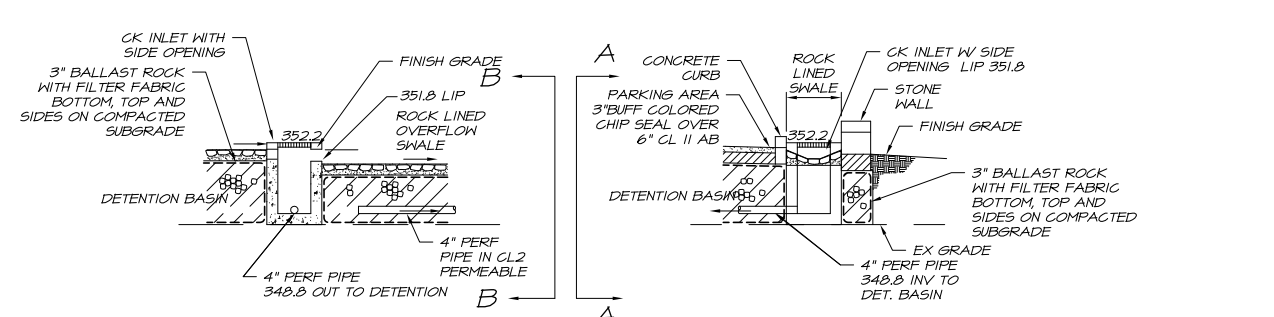
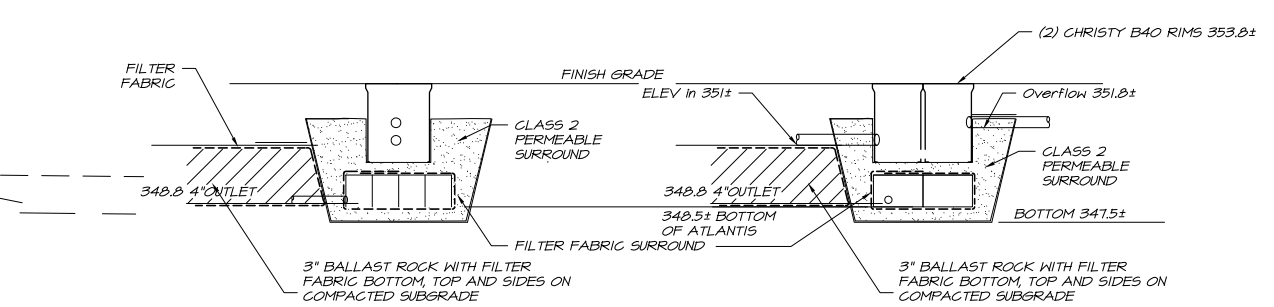
**ATLANTIS DRAINAGE CELL
DETAIL A**
SCALE: 1" = 4' ±



DETAIL B
SCALE: 1" = 4'



STORM WATER DISSIPATER DETAIL
NO SCALE



DETAIL D
SCALE: 1" = 4'



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BRIAN ARDEN WINERY
CALISTOGA, CA 945
DETAILS
design: JLC
drawn: GG
10 JAN 2012
11-04

6
OF 7 SHEETS

EROSION AND SEDIMENT CONTROL NOTES

EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE PLANS SHALL INCLUDE, BUT NOT BE LIMITED, TO THE FOLLOWING:

1. STABILIZED CONSTRUCTION ENTRANCE AND EXITS TO REDUCE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.
2. ERTEC PERIMETER GUARD OR FIBER ROLLS BELOW THE TOE OF EXPOSED AND ERODIBLE SLOPES, DOWN-SLOPE OR EXPOSED SOIL AREAS, AND AS INDICATED ON THE PLANS.
3. ROCK OR ERTEC PERIMETER GUARD CHECK DAMS TO REDUCE VELOCITY OF CONCENTRATED FLOW AND ENCOURAGE SEDIMENT SETTLES.
4. PROTECTION OF BORROW AREAS AND SOIL STOCKPILE AREAS WITH A MINIMUM OF 10 MIL VISQUEEN PLASTIC, INSTALLED ACCORDING TO SHPPP INSTRUCTIONS AND DETAILS, LOCATED WITHIN THESE ESC PLANS.
5. PROTECT CUT AND FILL SLOPES AS OUTLINED IN THE SHPPP. PROTECTION TO BE INSTALLED AS SPECIFIED.
6. RE-VEGETATION TO BE COMPLETED PER LANDSCAPE ARCHITECT'S PLANS.
7. OTHER EROSION CONTROL MEASURES SHALL BE UTILIZED AS FIELD CONDITIONS REQUIRE.
8. ANY CHANGES MADE TO THE PLAN MUST BE APPROVED BY THE ENGINEER AND/OR STORM WATER MANAGEMENT CONSULTANT.

REQUIREMENTS:

1. CONTRACTOR SHALL INSTALL BEST MANAGEMENT PRACTICES (BMP'S) WITH THE INTENT OF PREVENTING SEDIMENT OR OTHER CONTAMINANTS FROM LEAVING THE SITE AND ENTERING DRAINAGE WAYS.
2. CONTRACTOR SHALL MINIMIZE DISTURBANCES OF EXISTING SOILS OUTSIDE OF THE LIMITS OF THE WORK AREA AND AS INDICATED ON THE PLAN.
3. A NOTICE OF INTENT SHALL BE FILED BY THE OWNER FOR THIS PROJECT PER NPDES REQUIREMENTS. CONTRACTOR SHALL COMPLY WITH ALL NPDES GENERAL PERMIT AND SHPPP REQUIREMENTS.
4. INSTALLATION OF ALL BMP'S SHALL BE COMPLETED PRIOR TO OCTOBER 1 OR BEFORE THE START OF CONSTRUCTION IN ACCORDANCE WITH THE APPROVED STORM WATER MANAGEMENT PLAN. ALL BMP'S SHALL BE MAINTAINED FOR THE ENTIRE LIFE OF THE PROJECT.
5. WHEN TEMPORARY MEASURES HAVE SERVED THEIR INTENDED PURPOSE AND THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, THE MEASURES CAN BE REMOVED AND ANY SEDIMENT DEPOSITS DISPOSED OF ACCORDING TO LOCAL, STATE AND FEDERAL ORDINANCES. DISPOSAL OR REUSE OF SEDIMENT ON SITE AS FILL MUST HAVE THE APPROVAL OF THE SOILS ENGINEER.
6. EROSION CONTROL MEASURES SHOWN ON THE PLAN THAT INTERFERE WITH THE WORK MAY BE RELOCATED OR MODIFIED WITH APPROVAL OF LOCAL GOVERNING AGENCY AND/OR THE ENGINEER AND STORM WATER MANAGEMENT CONSULTANT.
7. INSTALLATION OF GRAVEL ROADWAYS, WALKWAYS, OR OTHER MEASURES SHALL BE UTILIZED IN ADDITION TO WATER OR OTHER DUST PALLIATIVES TO CONTROL AND PREVENT BLOWING DUST OR MINIMIZE THE CREATION OF DUST.

MAINTENANCE:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF BMP'S AT ALL TIMES DURING THE CONSTRUCTION PERIOD. ALL BMP'S SHALL BE INSPECTED AND REPAIRED AS REQUIRED AT THE END OF EACH WORKING DAY.
2. AFTER THE FIRST HEAVY RAIN OF THE SEASON, THE BMP'S SHALL BE INSPECTED FOR DEFICIENCIES. ERTEC, SHALES, DITCHES, ROCK RIPRAP OR OTHER BMP'S WILL BE ADDED AS NECESSARY TO ENSURE THAT WATER POLLUTION IS MINIMIZED TO THE MAXIMUM EXTENT PRACTICAL.
3. AFTER HEAVY RAINS, THE SITE SHALL BE INSPECTED FOR EXCESSIVE EROSION AND ERODED AREAS REPAIRED AS REQUIRED BY ADDING RIPRAP OR COBBLE TO PREVENT FURTHER EROSION.
4. SEDIMENT IS TO BE REMOVED FROM SEDIMENT TRAPS ON A REGULAR BASIS, AND BEFORE THE SEDIMENT REACHES 50% OF THE MAXIMUM LOAD.
5. DURING THE RAINY SEASON, ALL PAVED SURFACES SHALL BE MAINTAINED FREE OF EARTH MATERIAL AND DEBRIS. WHEN THE WORK REQUIRES THAT MATERIALS BE PLACED UPON PAVED SURFACES, APPROPRIATE MEASURES SHALL BE TAKEN TO PROTECT THE MATERIAL FROM ERODING.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF MUD AND DEBRIS CARRIED ONTO SURROUNDING PROPERTIES, STREETS AND ROADS AS A RESULT OF CONSTRUCTION ACTIVITY ON THE SITE TO THE SATISFACTION OF THE LOCAL GOVERNING AGENCY. ANY MUD THAT IS TRACKED ONTO PUBLIC ACCESS SHALL BE REMOVED THAT SAME DAY.

REVIEW THE STORM WATER MANAGEMENT PLAN AND FOLLOW ALL REQUIREMENTS AS SET FORTH IN THE SHPPP.

CONTRACTOR WILL HAVE ALL SUB-CONTRACTORS ATTEND A SITE SPECIFIC TRAINING AND MAINTAIN THE TRAINING LOG, LOCATED IN THE SHPPP DOCUMENT.

THIS PLAN WILL NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION. ADJUSTMENTS TO THE PLAN MAY BE MADE AS CONDITIONS WARRANT WITH APPROVAL OF THE LOCAL GOVERNING AGENCY.

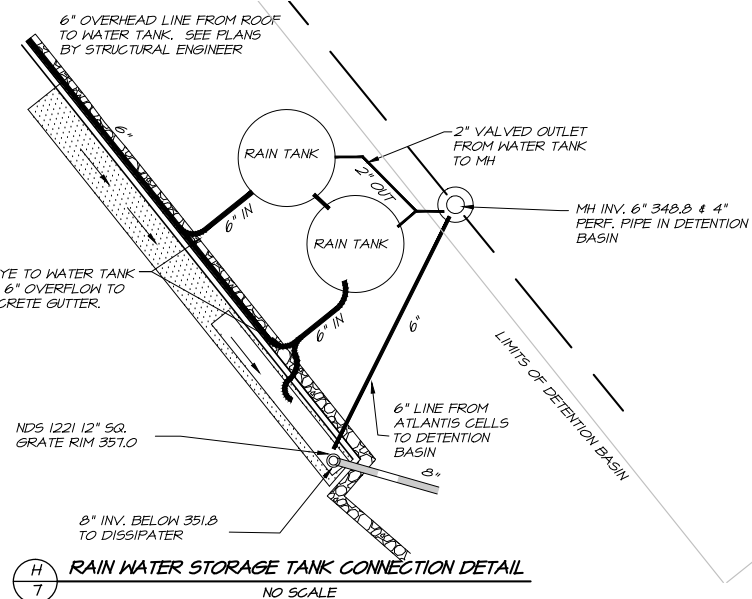
SEE CONSTRUCTION SHPPP FOR INSTALLATION AND MAINTENANCE GUIDELINES.

SEED REQUIREMENTS

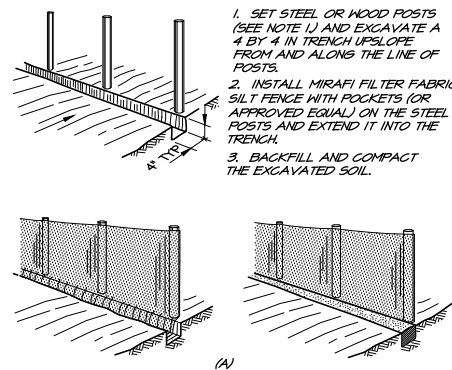
APPLY SEED MIX ONE LISTED BELOW UNLESS DIRECTED OTHERWISE BY LANDSCAPE ARCHITECT:

- SEED MIX ONE (APPLICATION RATE = 31 LBS/ACRE)
- 40% BLAND BROME
- 28% TORRO ANNUAL FESCUE
- 12% LANA VETCH
- 15% ROSE CLOVER
- 15% CRIMSON CLOVER
- 10% SUB-CLOVER

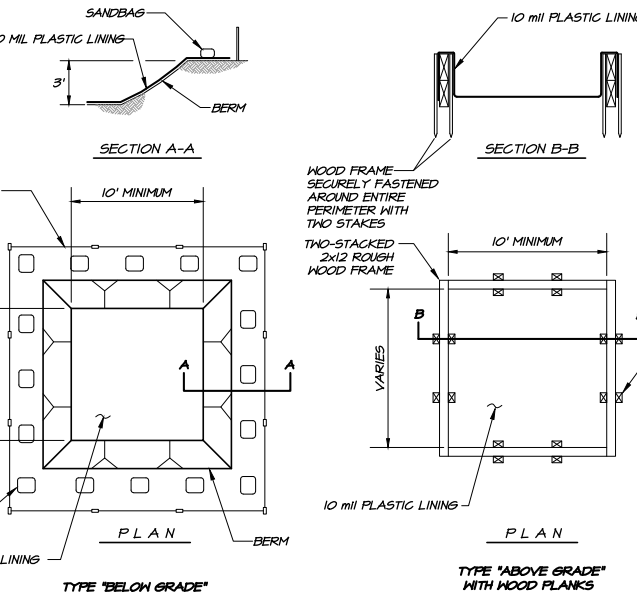
MULCH REQUIREMENTS-STRAW MULCH AT THE RATE OF 3,000 LBS./ACRE
 FERTILIZER REQUIREMENTS-12:12:12 AT THE RATE OF 400 LBS./ACRE
 RESEEDING REQUIREMENTS-RESEED ALL AREAS HAVING LESS THAN 80% COVERAGE



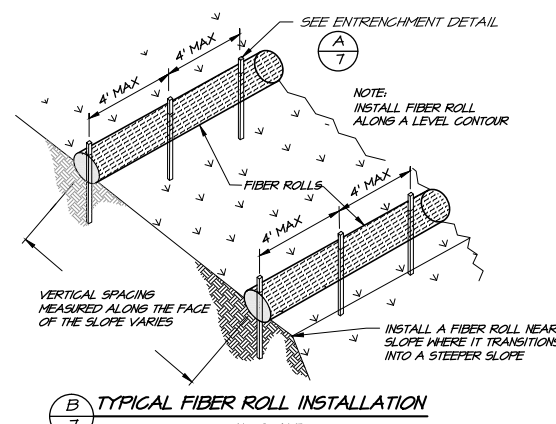
H RAIN WATER STORAGE TANK CONNECTION DETAIL
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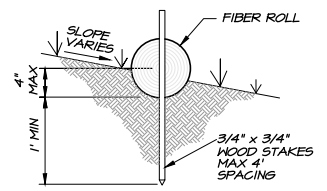
A PREFAB SILT FENCE SEDIMENT BARRIER
NO SCALE



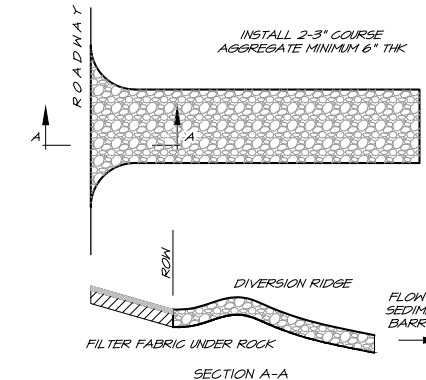
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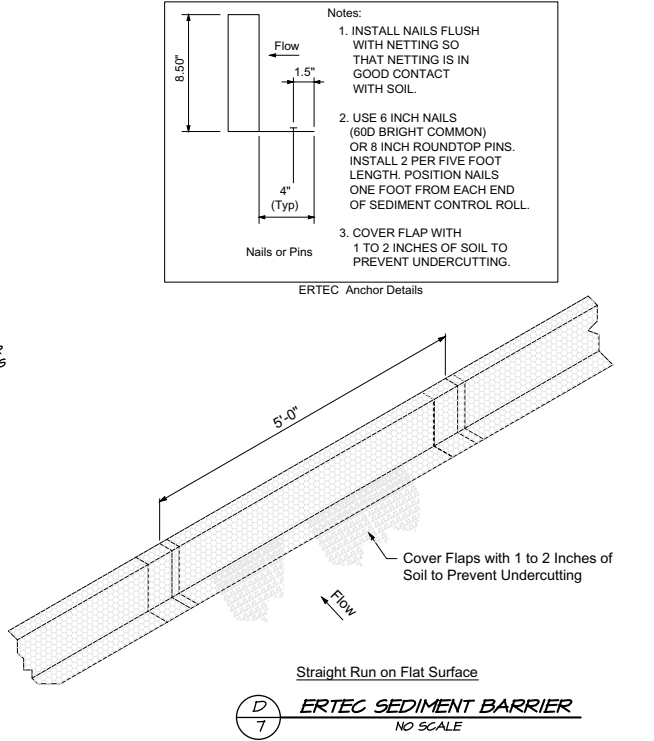
B TYPICAL FIBER ROLL INSTALLATION
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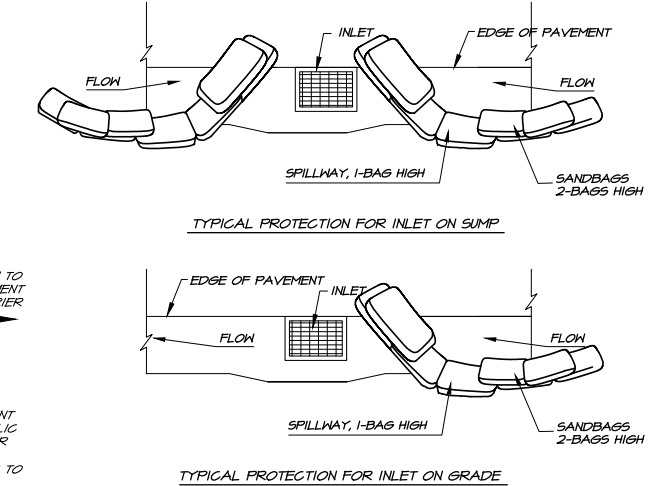
C ENTRENCHMENT DETAIL
NO SCALE



F GRAVEL CONSTRUCTION ENTRANCE DETAIL
NO SCALE



D ERTEC SEDIMENT BARRIER
NO SCALE



G TYPICAL PROTECTION FOR INLET
NO SCALE

- NOTES:
1. INTENDED FOR SHORT TERM USE.
 2. USE TO INHIBIT NON-STORM WATER FLOW.
 3. ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
 4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.
 5. NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC.



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