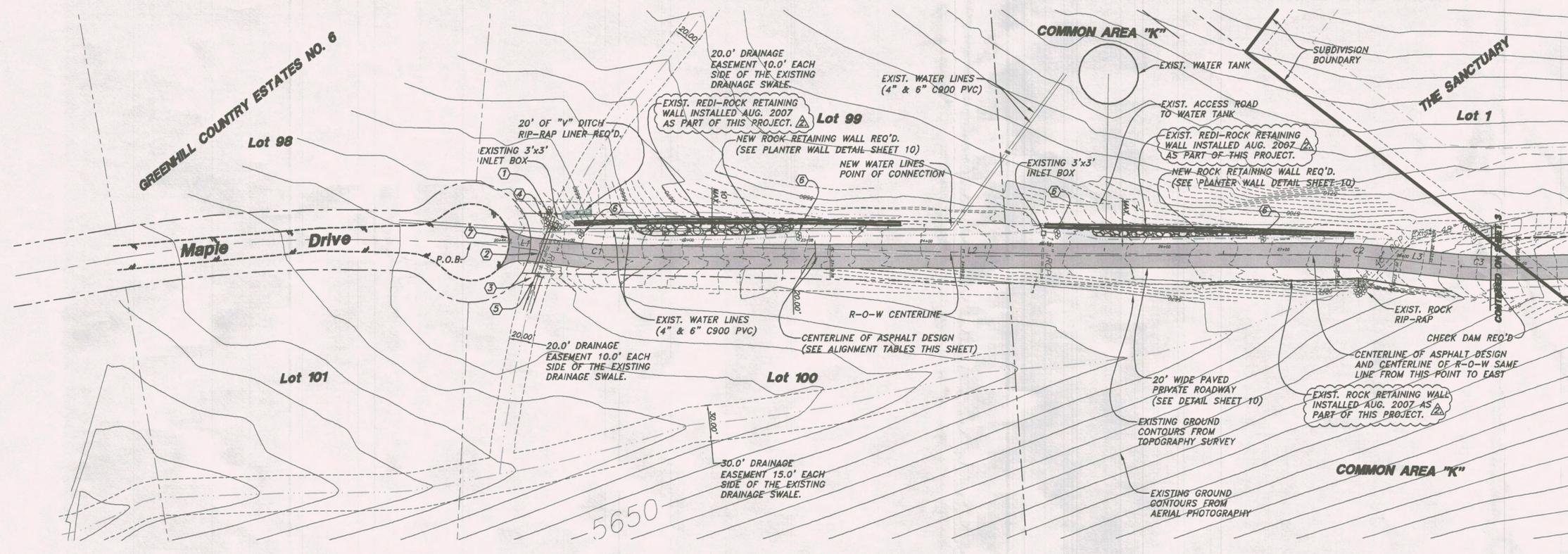
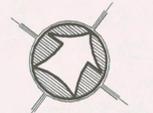


GREENWILL COUNTRY ESTATES NO. 6



- KEYED NOTES:**
- 30"x48" O.D. CONC. CATCH BASIN TOP OF GRATE: 5641.41 FL OUT: 5637.45 (MATCH NEW 30" RCP TOP OF PIPE TO EXISTING 15" RCP TOP OF PIPE.)
 - INSTALL 60 LF OF 30" RCP STORM DRAIN PIPE @ 7.4% SLOPE FOR OFFSITE WATER CONVEYANCE ACROSS STREET.
 - INSTALL 30" CONC. PIPE END SECTION. MODIFY EXISTING RECEIVING DRAINAGE CHANNEL AS REQ'D TO ACCOMMODATE NEW PIPE. RIP-RAP ALL NEW DISTURBED CHANNEL WITH LARGE ROCK (2' DIA. MIN.) FL 30" RCP 5633.75±
 - PROVIDE A 6' WIDE x 8' LONG x 4' DEEP (INSIDE DIM. AFTER ROCK PLACEMENT) STILLING BASIN TO SLOW OFF SITE STORM RUNOFF. LINE STILLING BASIN WITH LARGE RIP-RAP (2" - 3" DIA. MIN.)
 - PROVIDE RIP-RAP FROM END OF "V" DITCH TO OPEN DRAINAGE CHANNEL. 12" MIN. RIP-RAP
 - INSTALL ROADWAY CHECK DAMS (SEE DETAIL ON THIS SHEET)
 - SAW-CUT EXISTING ASPHALT PAVING 1' FROM EDGE. PROVIDE SMOOTH TRANSITION FROM EXISTING TO NEW ASPHALT PAVING.



SCALE: 1" = 50' HORZ.
1" = 10' VERT.
Scale In Feet

CENTERLINE OF ASPHALT DESIGN
P.O.B. CENTER OF CUL-DE-SAC

LINE	BEARING	LENGTH
L1	S80°40'10"W	90.00
L2	S53°27'16"W	592.24
L3	S60°39'07"W	28.90
L4	S82°10'13"W	173.58

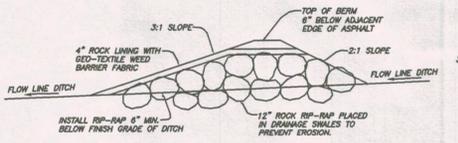
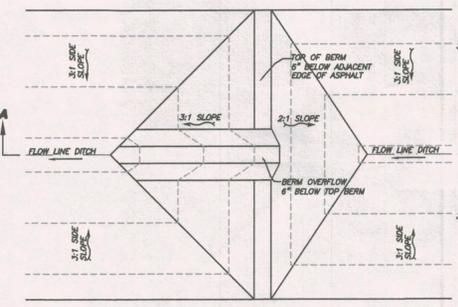
CURVE	DELTA ANGLE	LENGTH	RADIUS	CHORD DIRECTION	CHORD
C1	7°13'04"	31.49	250.00	N57°03'49"E	31.47
C2	7°11'51"	62.81	500.00	S57°03'11"W	62.77
C3	8°28'54"	74.02	500.00	N56°24'40"E	73.95

NOTE:
ROUGH GRADING, INSTALLATION OF GRANULAR BORROW, RETAINING WALLS AND STORM DRAIN PIPING LABELED AS EXISTING HAVE BEEN INSTALLED AS PART OF THIS PROJECT.

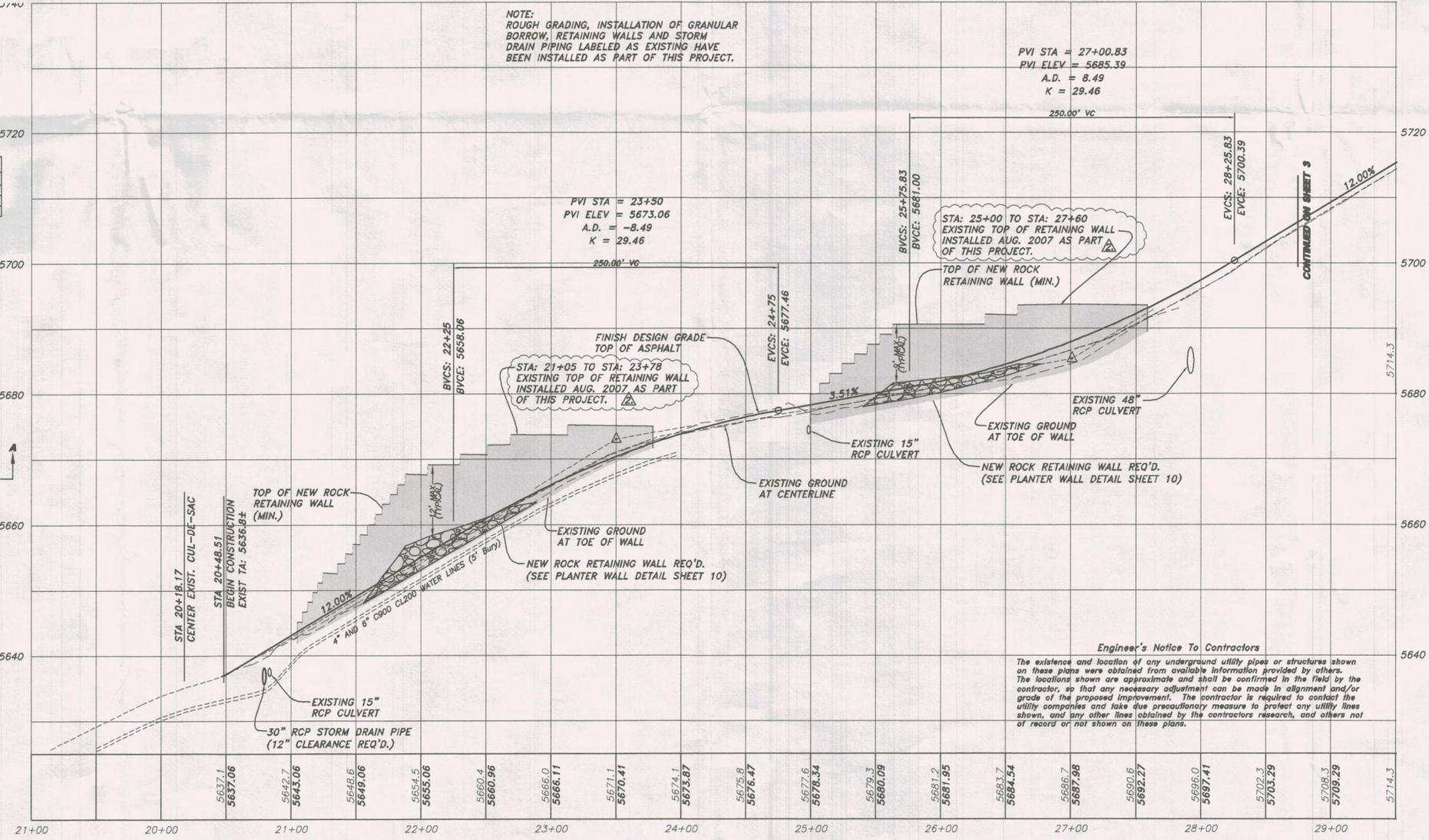
PVI STA = 27+00.83
PVI ELEV = 5685.39
A.D. = 8.49
K = 29.46

PVI STA = 23+50
PVI ELEV = 5673.06
A.D. = -8.49
K = 29.46

- LEGEND:**
- PROPERTY BOUNDARY LINE
 - LOT LINE
 - CENTERLINE
 - EASEMENT
 - BUILDING SETBACK
 - STORM DRAIN PIPE
 - LAND DRAIN PIPE
 - EXISTING 10" CONTOUR
 - EXISTING 10' CONTOUR
 - EXISTING 2' CONTOUR
 - STREET MONUMENT
 - INLET BOX
 - PREFERRED BUILDABLE AREA
 - PROPOSED ASPHALT PAVEMENT
 - PROPOSED PRIVATE DRIVE



TYPICAL ROCK CHECK DAM DETAIL
SCALE: NONE



Engineer's Notice To Contractors
The existence and location of any underground utility pipes or structures shown on these plans were obtained from available information provided by others. The locations shown are approximate and shall be confirmed in the field by the contractor, so that any necessary adjustment can be made in alignment and/or grade of the proposed improvement. The contractor is required to contact the utility companies and take due precautionary measure to protect any utility lines shown, and any other lines obtained by the contractor's research, and others not of record or not shown on these plans.

RECEIVED
By Michael Tuttle at 12:23 pm, Oct 29, 2012

NOTICE!
EXISTING UTILITIES ARE SHOWN ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR SHOWN INCORRECTLY.

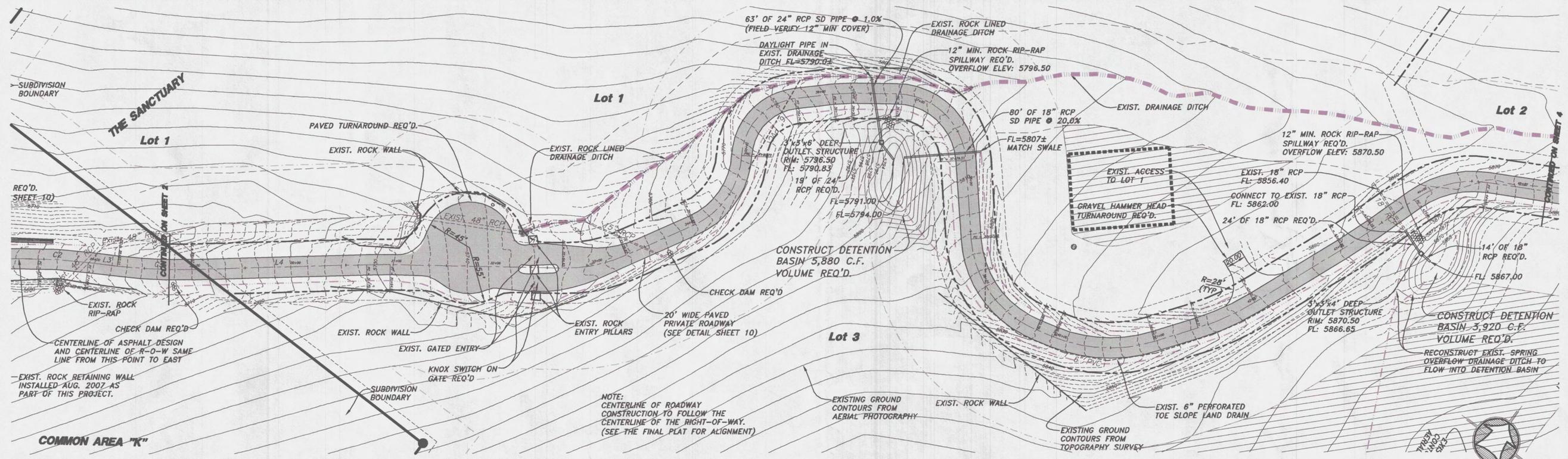
Call BEFORE YOU Dig
1-800-652-4111
UNDERGROUND SERVICE

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Consulting Engineers and Land Surveyors
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Brigham City, Utah 84302
Logan, Utah 84321
Ogden, Utah (435) 752-9197
Cedar Rapids, IA (515) 251-1229
Des Moines, IA (515) 251-1229

Drawn By: MBI Date: 9/28/2010
Designed By: MBI
Checked By: MBI
Approved By: MBI
Scale: 1"=50' HORZ 1"=10' VERT
Drawing File: 07-29PPP.dwg
JOB NUMBER: 07-129

PLAN & PROFILE FOR
THE SANCTUARY
A PART OF SECTION 3 & 4, T6N, R2E, AND
A PART OF SECTION 34, T7N, R2E, SLB&M
WEBER COUNTY, UTAH

SHEET	2	OF	10
SHEETS			

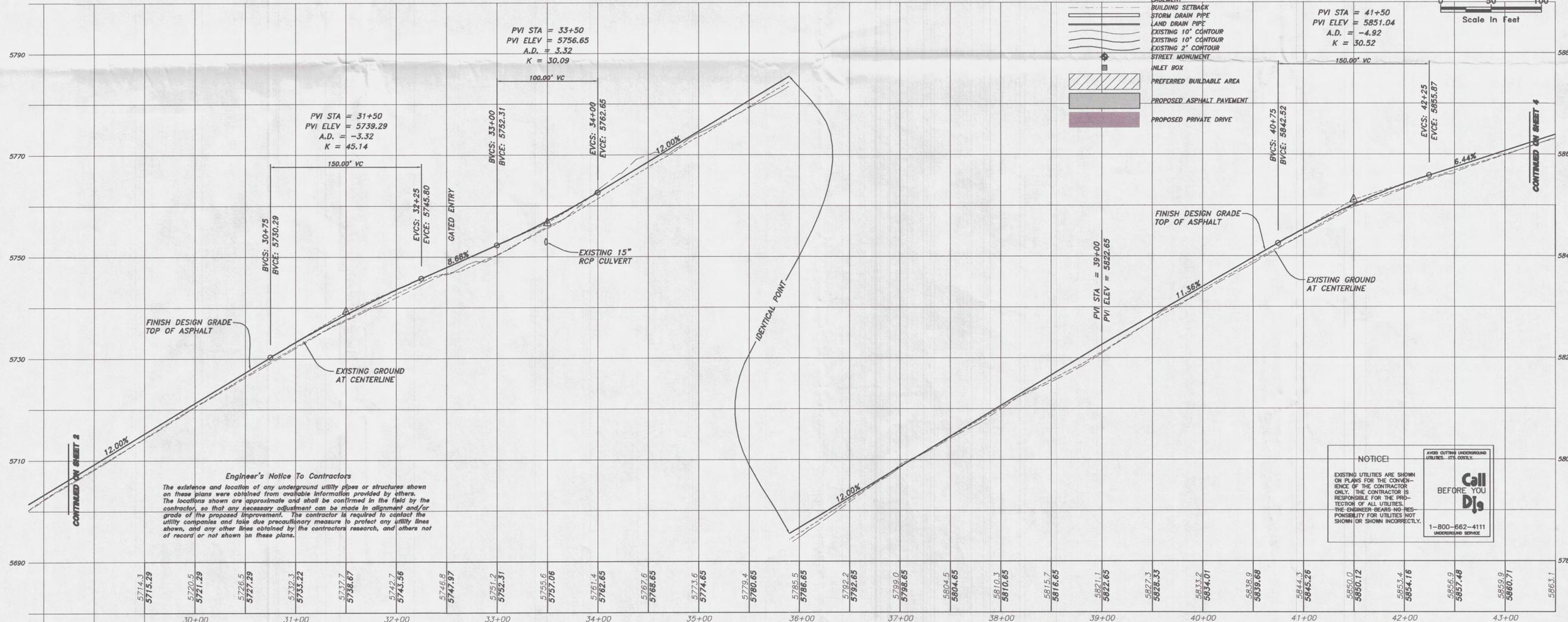


NOTE:
ROUGH GRADING, INSTALLATION OF GRANULAR BORROW, RETAINING WALLS AND STORM DRAIN PIPING LABELED AS EXISTING HAVE BEEN INSTALLED AS PART OF THIS PROJECT.

LEGEND:

- PROPERTY BOUNDARY LINE
- LOT LINE
- CENTERLINE
- EASEMENT
- BUILDING SETBACK
- STORM DRAIN PIPE
- LAND DRAIN PIPE
- EXISTING 10' CONTOUR
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- STREET MONUMENT
- INLET BOX
- PREFERRED BUILDABLE AREA
- PROPOSED ASPHALT PAVEMENT
- PROPOSED PRIVATE DRIVE

SCALE: 1" = 50' HORIZ.
1" = 10' VERT.



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Call Djs BEFORE YOU Dig

1-800-662-4111
UNDERGROUND SERVICE

Professional Engineer Seal: M.B.J. Hansen, No. 27689, State of Utah.

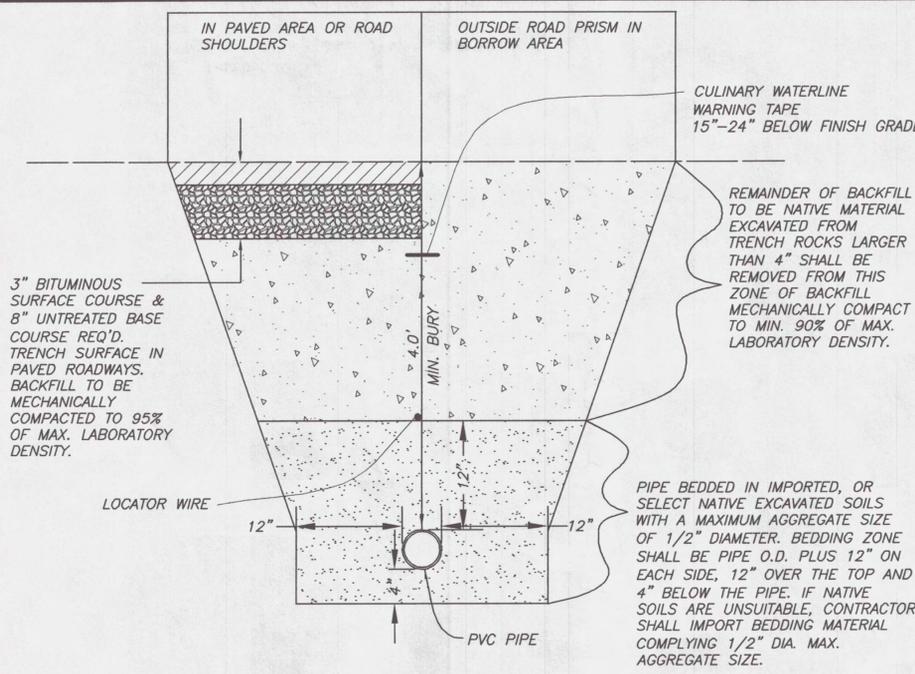
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Logan, Utah 84321
Ogden, Utah 84403
P.O. Box 100 North Brigham City, Utah 84302
(435) 723-3491
(435) 723-7663 (801) 399-4905

Drawn By: M.B.J. Date: 2/29/2010
Designed By: M.B.J.
Checked By: M.B.J.
Approved By: M.B.J.
Scale: 1"=50' HORIZ. 1"=10' VERT.
Drawing File: 07-128PP.dwg
JOB NUMBER: 07-128

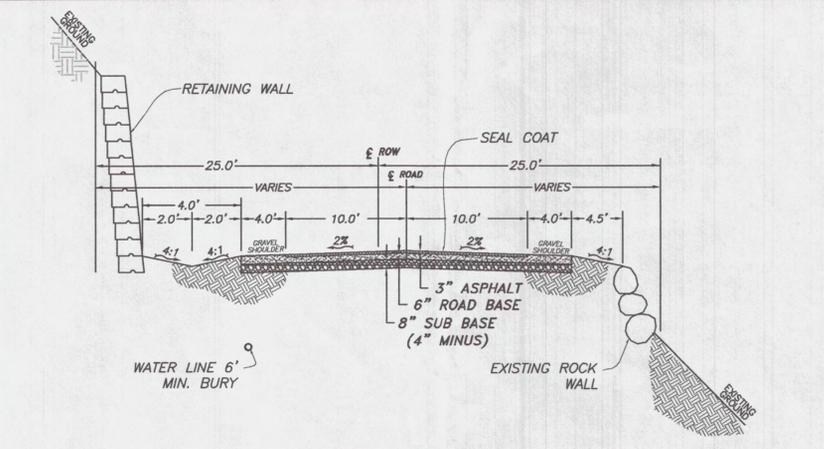
PLAN & PROFILE FOR
THE SANCTUARY
A PART OF SECTION 3 & 4, T6N, R2E, AND
A PART OF SECTION 34, T7N, R2E, SLB&M
WEBER COUNTY, UTAH

SHEET
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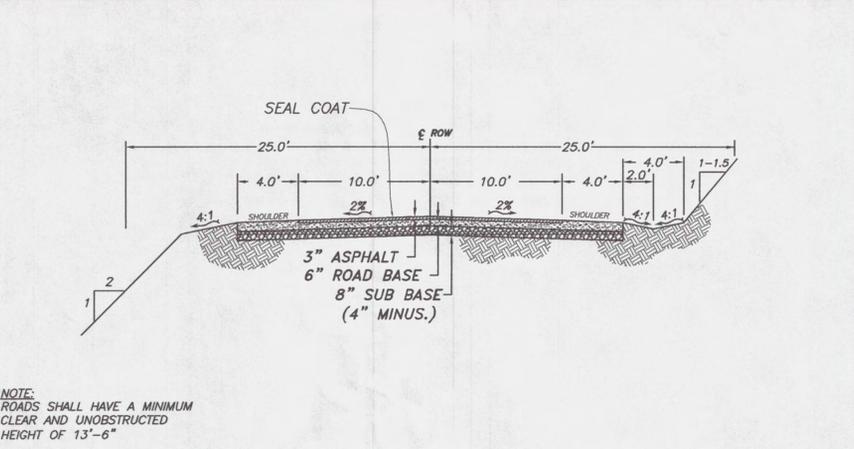
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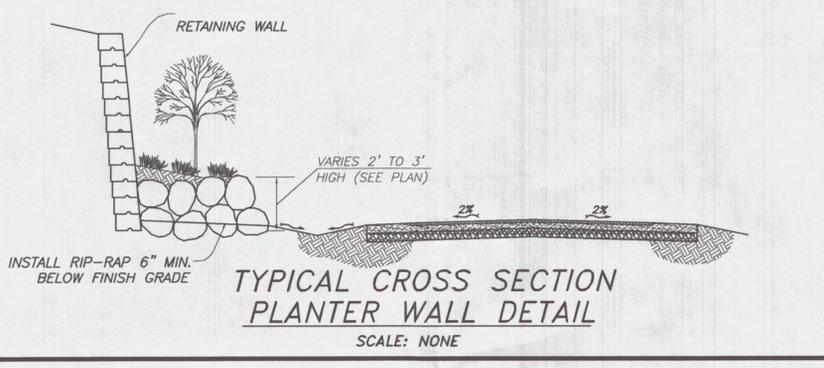
TYPICAL TRENCH SECTION
SCALE: NONE



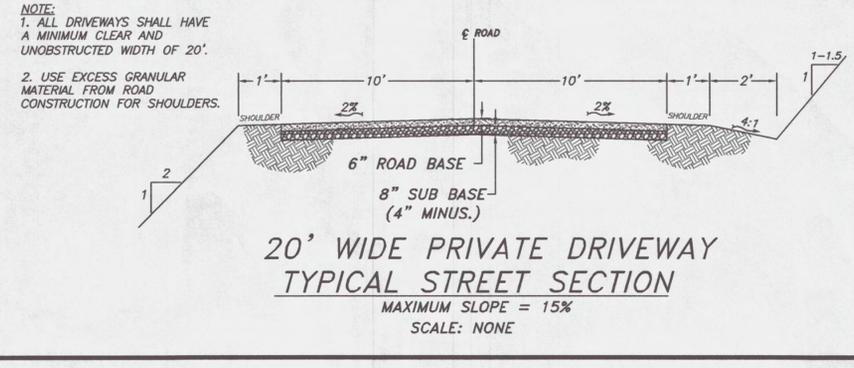
TYPICAL STREET SECTION DETAIL W/Redi-Rock WALL DETAIL
SCALE: NONE Not for Construction



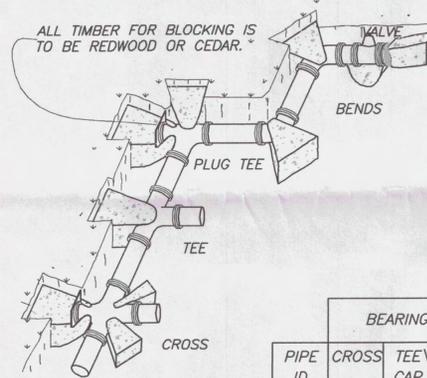
TYPICAL PRIVATE ROADWAY SECTION
MAXIMUM SLOPE = 12%
SCALE: NONE



TYPICAL CROSS SECTION PLANTER WALL DETAIL
SCALE: NONE



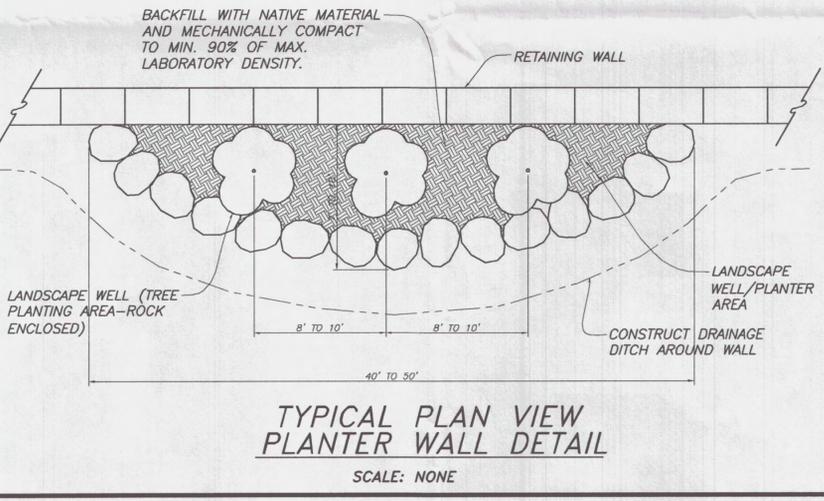
20' WIDE PRIVATE DRIVEWAY TYPICAL STREET SECTION
MAXIMUM SLOPE = 15%
SCALE: NONE



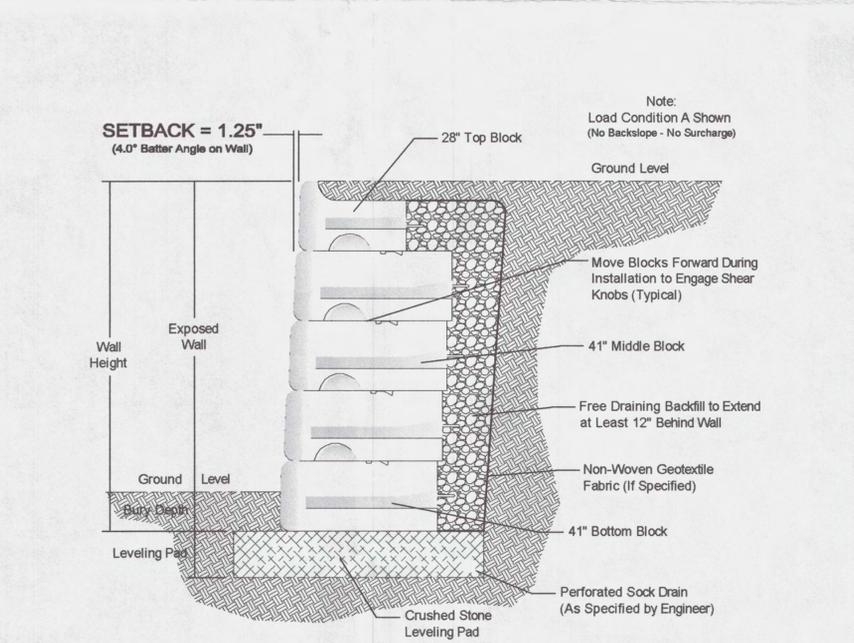
- NOTES:**
1. CONCRETE SHALL NOT BE PLACED AROUND JOINTS AND BOLTS. COVER ALL METAL CONTACT AREAS WITH A POLY WRAP PRIOR TO CONCRETE PLACEMENT.
 2. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, THRUST BLOCKS SHALL BE CONSTRUCTED AT ALL BENDS OF 22.5° AND GREATER AND BEHIND ALL TEES, FIRE HYDRANTS, AND PLUGS. THEY SHALL BE CONSTRUCTED OF 3000 P.S.I. CONCRETE OR BETTER.

PIPE ID	CROSS	TEE CAP	BEARING AREA IN SQUARE FEET				CONC./CU. YDS.		
			90°	45°	22.5°	11.25°	45°	22.5°	11.25°
4"	2	2	2	1	1	1	1.0	0.5	0.5
6"	2	3	4	2	1	1	1.5	1.0	0.5
8"	3	5	7	4	2	1	2.5	1.5	1.0
10"	4	8	10	6	3	1	4.0	2.5	1.5
12"	5	10	14	8	4	2	5.0	3.0	1.5
16"	10	20	24	12	7	4	8.5	4.5	2.5
18"	12	24	30	16	10	5	11.0	6.0	3.0
20"	14	28	40	20	12	6	14.0	8.0	4.0

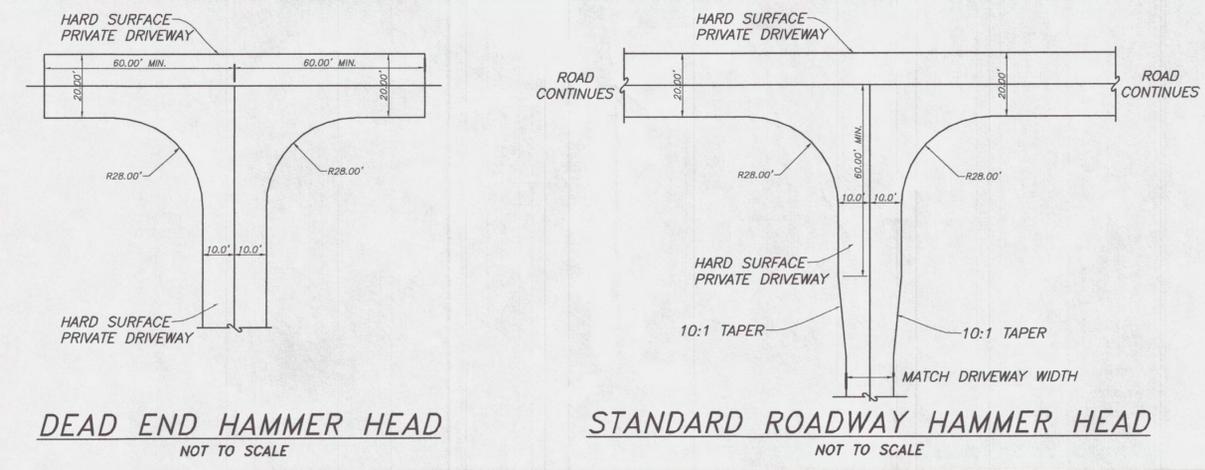
THRUST BLOCKING DETAIL
SCALE: NONE



TYPICAL PLAN VIEW PLANTER WALL DETAIL
SCALE: NONE



SETBACK = 1.25" (4.0" Batter Angle on Wall)



DEAD END HAMMER HEAD
NOT TO SCALE

STANDARD ROADWAY HAMMER HEAD
NOT TO SCALE

NOTE:
FIRE TRUCK TURN AROUND IN RESIDENTIAL DRIVEWAY/GARAGE AREAS SHALL BE PROVIDED AS SHOWN AND HAVE A MINIMUM HARD SURFACE AREA FOR A VEHICLE TURNING RADIUS OF 28 FEET OF GREATER. IN LIEU OF A CIRCULAR TURN AROUND, AN APPROVED HAMMER HEAD TURN AROUND MAY BE USED.

NOTE:
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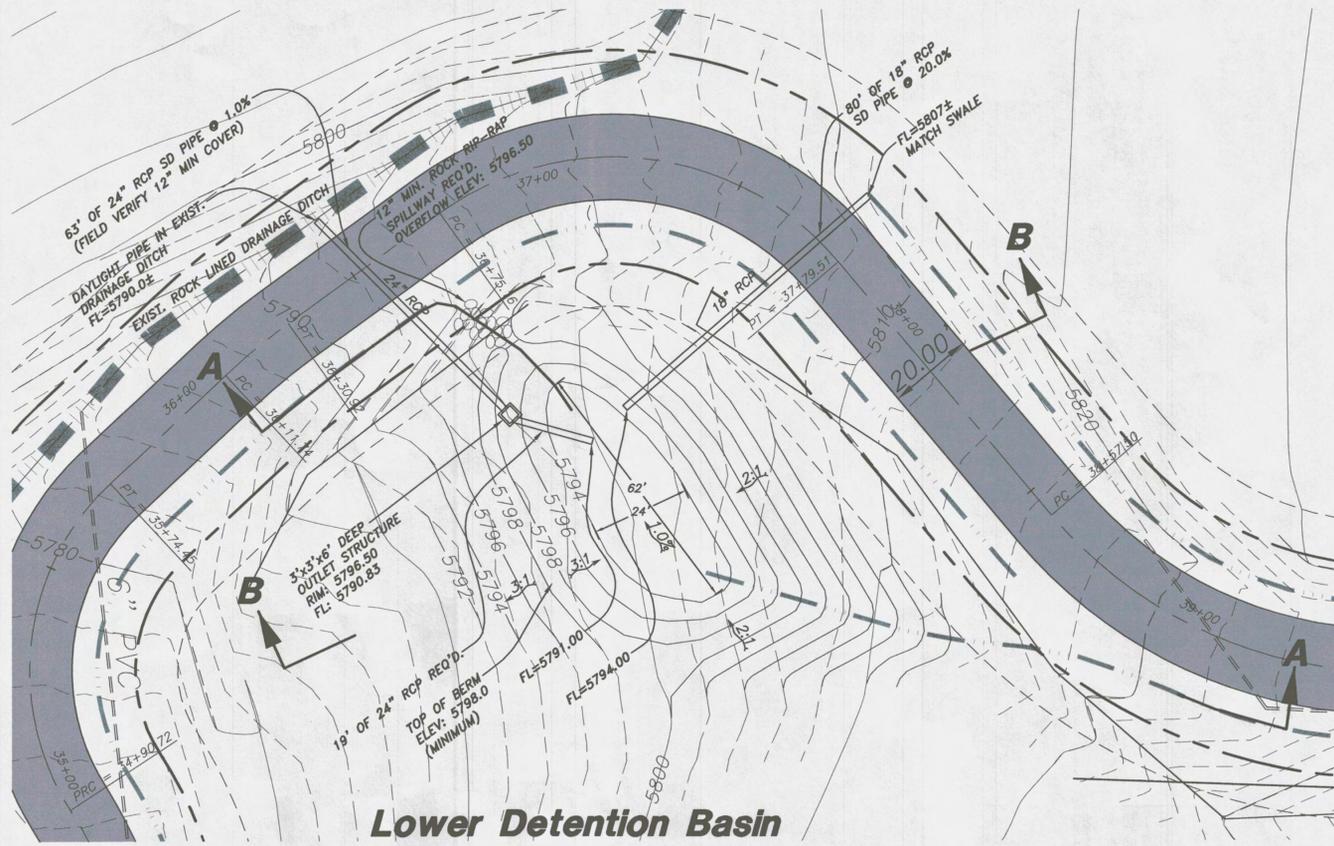
See Redi-Rock.com for Detailed Section Drawings of Each Condition Shown in the Design Charts

Drawn By: MJB Date: 9/29/2010
 Checked By: SRM
 Approved By: MJS
 Scale: NTS
 Drawing File: 07-129PPP.dwg
 JOB NUMBER: 07-129

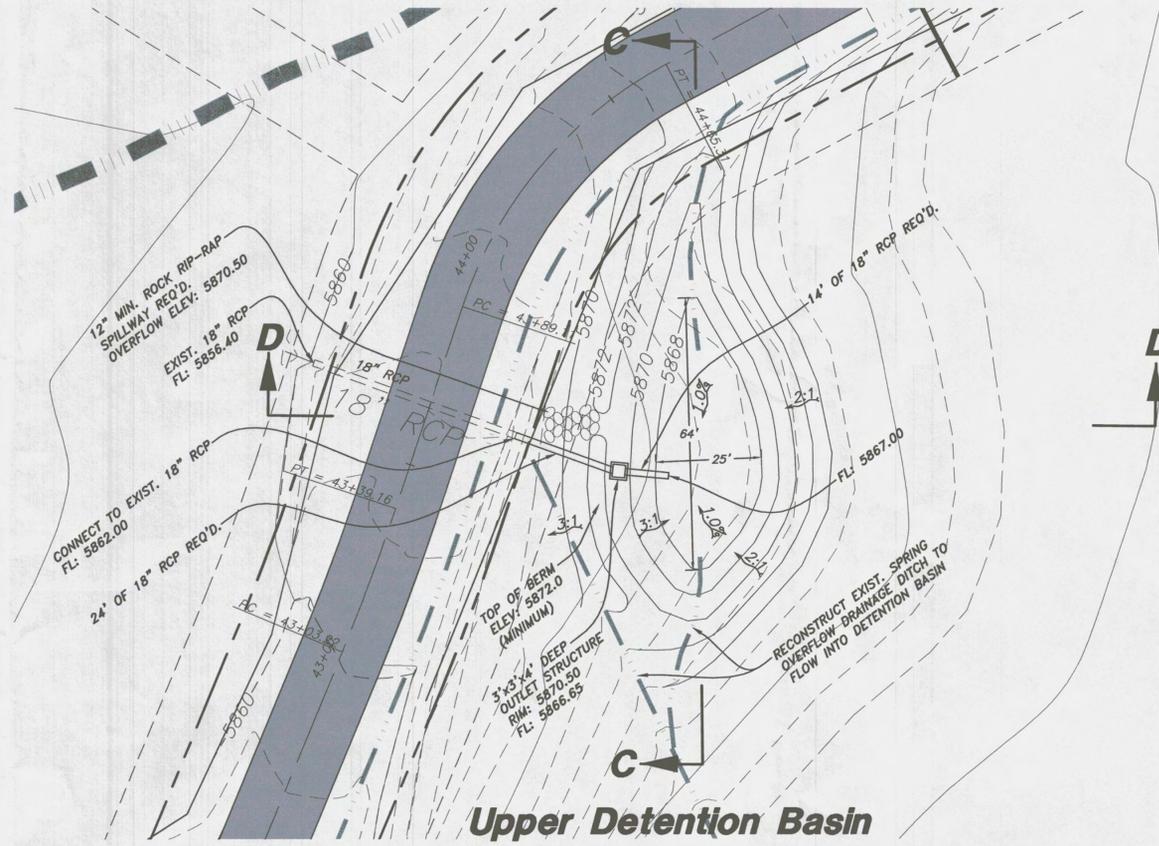
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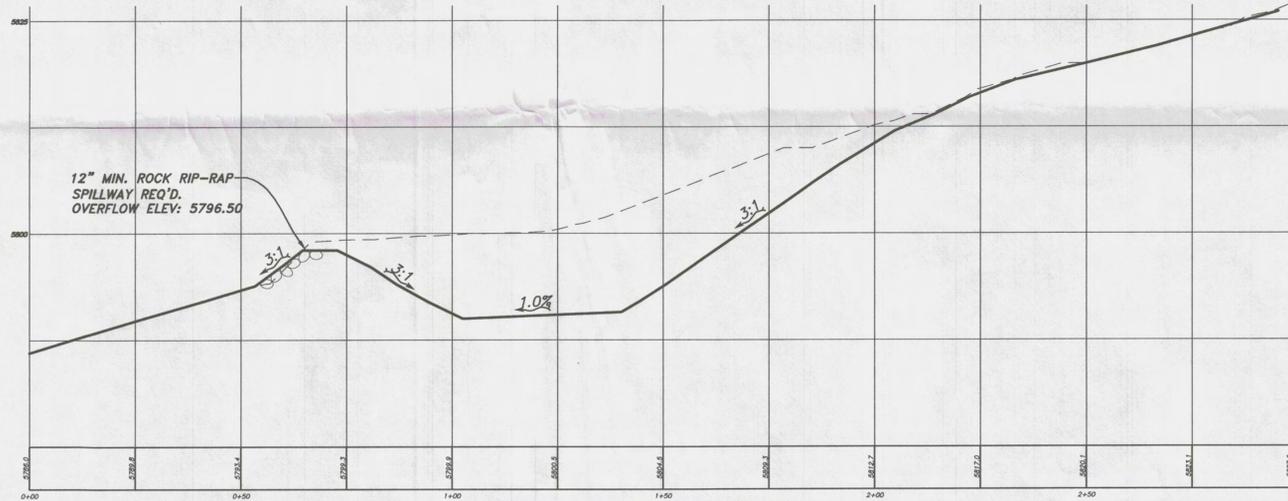
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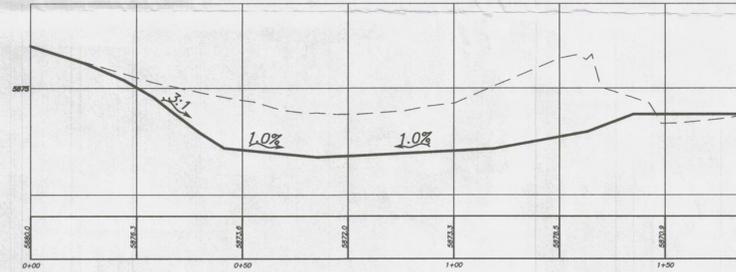
Lower Detention Basin



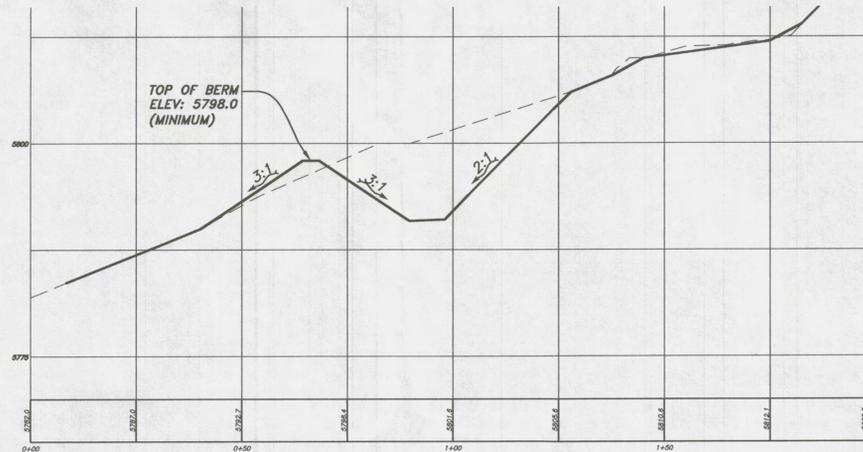
Upper Detention Basin



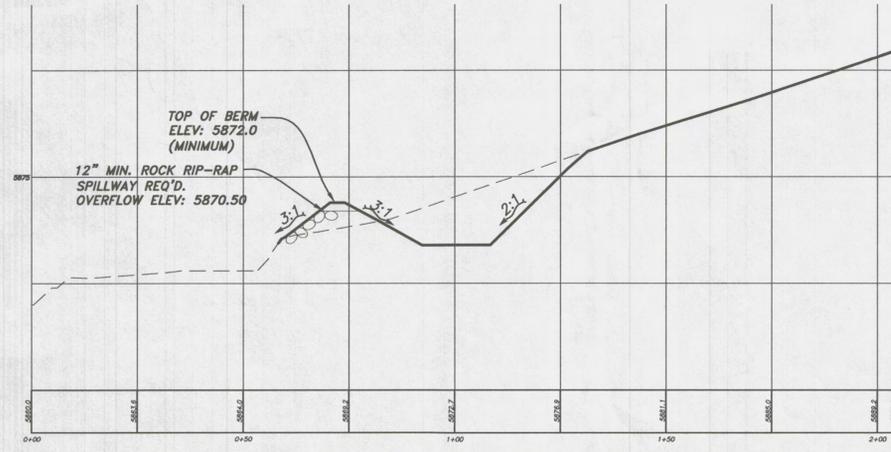
Lower Detention Basin A-A NOTE: FOLLOWS DRAINAGE OVERFLOW PATH



Upper Detention Basin C-C



Lower Det Basin X-Section B-B



Upper Detention Basin D-D

NOTE:
DETENTION BASIN LOCATIONS ARE APPROXIMATE.
CONTRACTOR TO USE THE EXISTING GROUND
TOPOGRAPHY AND VEGETATION TO LOCATE THE BASINS
AND CONSTRUCT USING EXISTING MATERIALS. MAINTAIN
REQUIRED VOLUME AND MINIMUM 12" OF FREEBOARD.

No.	Date	By	Revision
2.	9/17/2012	MBI	Added As-Built notes per W.C. Engineer.
1.	7/16/2012	MBI	Revised drawing per W.C. Engineer review

No.	Date	By	Revision



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Designed By: SRM
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Approved By: [blank]
Scale: NTS
Drawing File: 02-129PP.dwg
JOB NUMBER: 02-129

DETENTION BASIN X-SECTIONS FOR
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A PART OF SECTION 34, T7N, R2E, SLB&M
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N:\2007\07-129 Sanctuary\Drawings\07-129PP REV 10-9-2012.DWG, 10/23/2012 11:51:57 AM, 1/20, 1/7