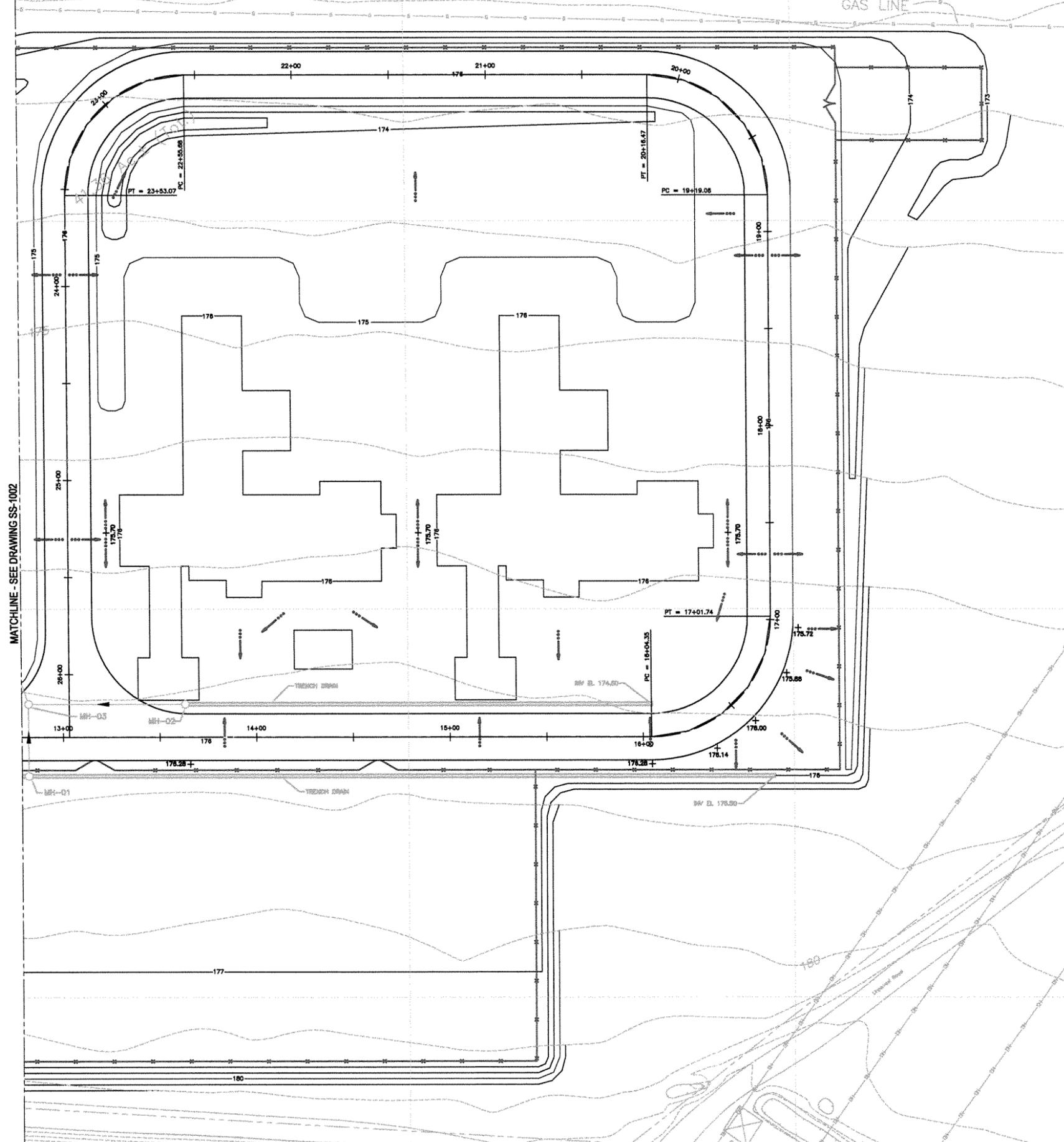


Appendix J1-2

Grading and Drainage Overall Plan



MATCHLINE - SEE DRAWING SS-1002

NOTES
 1. SEE DRAWING SS-1000 FOR GENERAL NOTES, LEGEND AND KEY PLAN.

NOT TO BE USED FOR CONSTRUCTION

MS07292 ACAD 10.05
 AUG07/17
 17/22/23

NO.	DATE	ISSUED FOR PERMITTING	REVISIONS AND RECORD OF ISSUE	BY	CHKD	DATE
0	08-07-2001	ISSUED FOR PERMITTING				



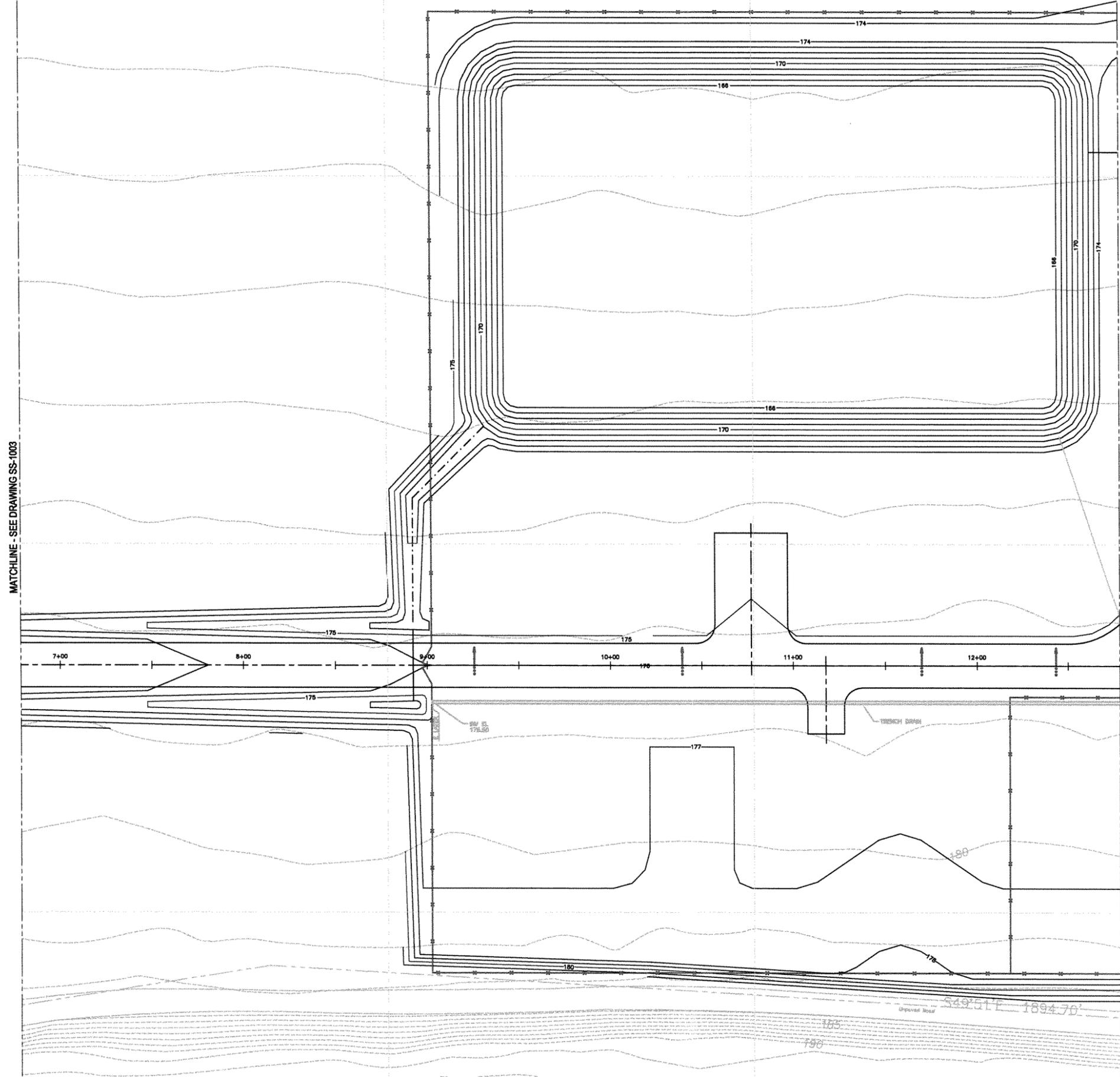
20' 10' 0 20' 40'
 1"=20'

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY CLOSE SUPERVISION AND THAT I AM A QUALIFIED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CALIFORNIA.

BLACK & VEATCH
 CORPORATION
 170, BAY STREET, SUITE 1000, OAKLAND, CA 94612
 ENGINEER: KGM
 CHECKED: []
 DATE: []

GWF ENERGY LLC
 TRACY PEAKER PROJECT
 SITE - GRADING AND DRAINAGE PLAN

PROJECT: 089389-SS-1001
 DRAWING NUMBER: 089389-SS-1001
 SHEET: 0



MATCHLINE - SEE DRAWING SS-1003

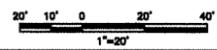
MATCHLINE - SEE DRAWING SS-1001

NOTES
 1. SEE DRAWING SS-1000 FOR GENERAL NOTES, LEGEND AND KEY PLAN.

NOT TO BE USED FOR CONSTRUCTION

ACAD 10.67
 DATE 08-07-2001
 USERNAME CAVE@GULF.EI

NO.	DATE	ISSUED FOR PERMITTING	BY	CHKD	APP
0	08-07-2001	ISSUED FOR PERMITTING	RCH/EM	AME/TO	
REVISIONS AND RECORD OF ISSUE					



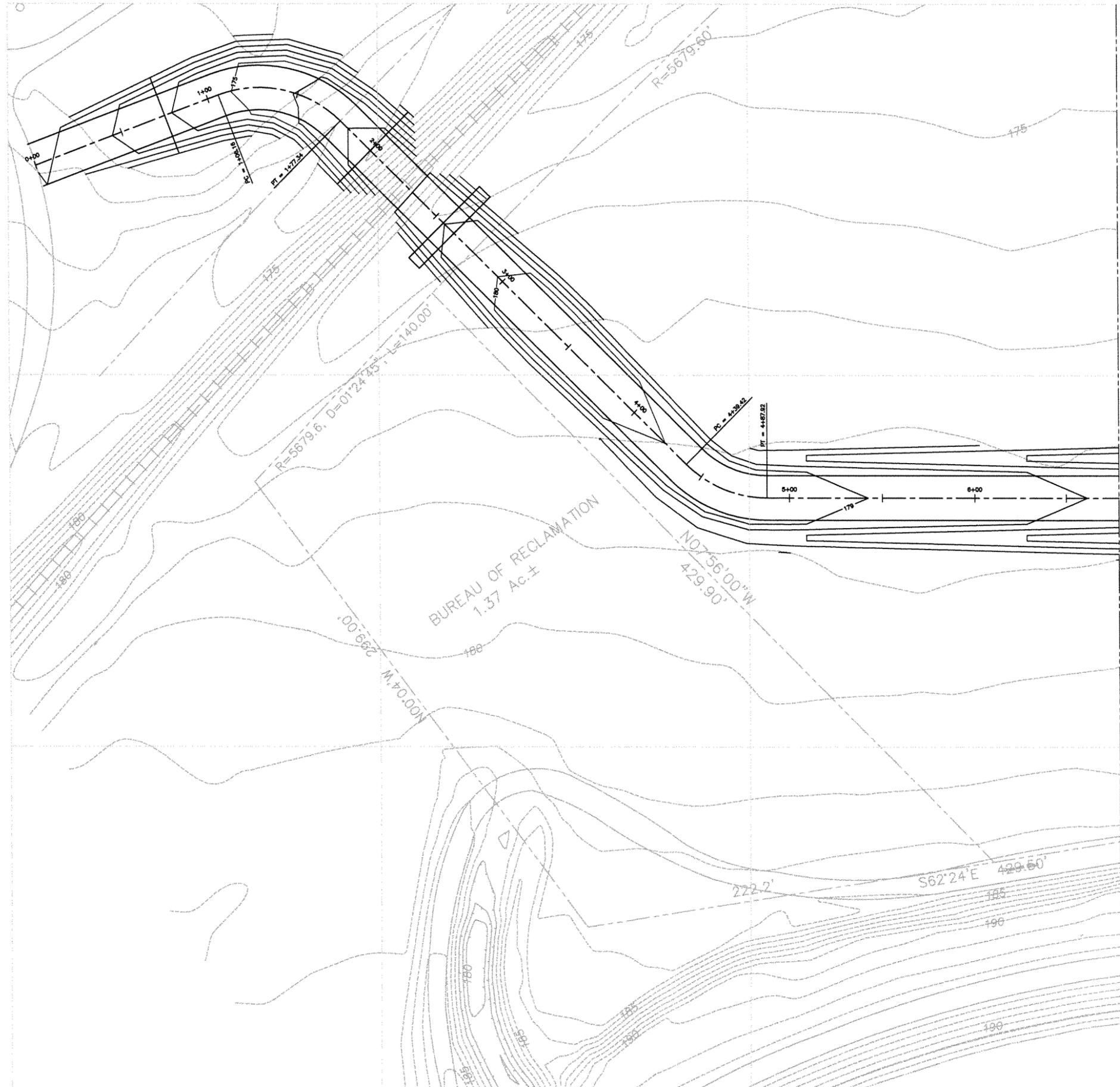
I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A QUALIFIED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CALIFORNIA.
 DRAWN: _____ DATE: _____
 CHECKED: _____ DATE: _____

BLACK & VEATCH
 CORPORATION
 710 WEST BERRY AVENUE, SUITE 1000
 DENVER, COLORADO 80202
 ENGINEER: _____
 CHECKED: _____

GWF ENERGY LLC
 TRACY PEAKER PROJECT
 SITE - GRADING AND DRAINAGE PLAN

PROJECT	DRAWING NUMBER	REV
089389-SS-1002		0
CODE	AREA	

14857232 ACAD 15.00
 04/07/10 15:23:41

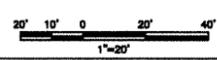


MATCHLINE - SEE DRAWING SS-1002

NOTES
 1. SEE DRAWING SS-1000 FOR GENERAL NOTES, LEGEND AND KEY PLAN.

NOT TO BE USED FOR CONSTRUCTION

NO.	DATE	ISSUED FOR PERMITTING	REVISIONS AND RECORD OF ISSUE	BY	CHKD	DATE
0	08-07-2001	ISSUED FOR PERMITTING				



I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY CLOSE SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CALIFORNIA.

DATE: _____ REG. NO. _____

BLACK & VEATCH CORPORATION
 1900 BULL ST. SUITE 2000, DENVER, CO 80202

ENGINEER: KDM
 CHECKED: _____
 DATE: _____

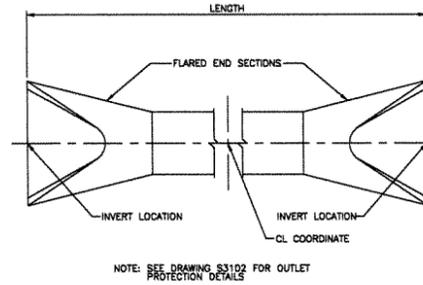
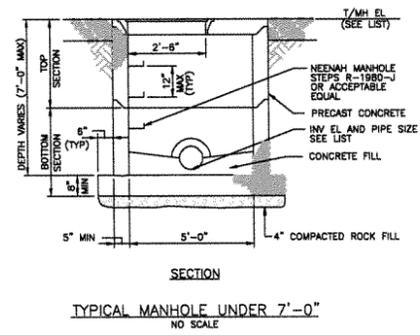
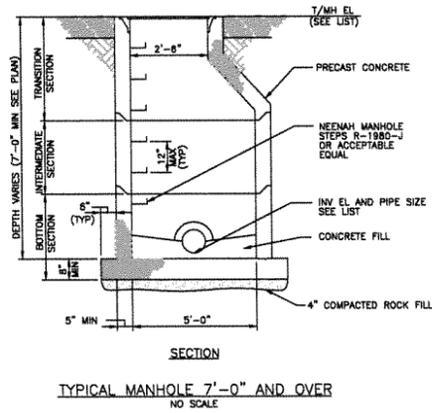
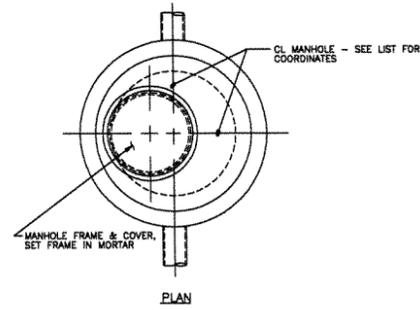
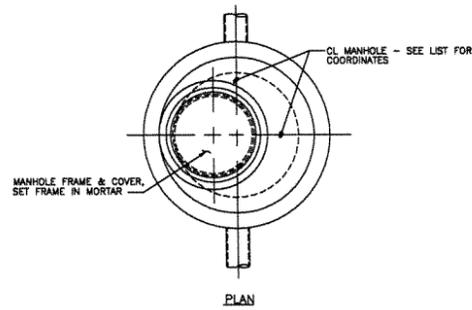
GWF ENERGY LLC
 TRACY PEAKER PROJECT

SITE - GRADING AND DRAINAGE PLAN

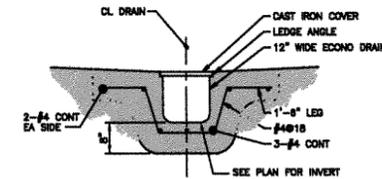
PROJECT	DRAWING NUMBER	REV
069389-SS-1003		0

MANHOLE TABLE												
MH NO.	TOP OF MH EL.	CENTERLINE COORDINATES		INLET AND OUTLET PIPE INFORMATION								REMARKS
				NORTH		SOUTH		EAST		WEST		
				INV EL	DIA	INV EL	DIA	INV EL	DIA	INV EL	DIA	
MH-01	176.00			172.50	15			173.50	*	173.50	*	* TRENCH DRAIN
MH-02	175.00					173.20	*	172.70	12			* TRENCH DRAIN
MH-03	175.80			172.20	15	172.30	15	172.30	12			

CULVERT TABLE														
CULVERT NUMBER	LENGTH (FT)	SIZE (IN)	CENTERLINE COORDINATES				INVERT ELEVATIONS				TYPE	REFERENCE DRAWING	REMARKS	
			INLET		OUTLET		NORTH	SOUTH	EAST	WEST				
			NORTH	EAST	NORTH	EAST								
C-1	44	12					170.20	170.70				CHDPE		
C-2	58	12							171.80	172.30		CHDPE		
C-3	80	4'x8'							173.70	174.00		ROP		BOX CULVERT
C-4	44	12					173.50	173.70				CHDPE		
C-5	85	15							172.50	172.20		CHDPE		



TYPICAL PERMANENT CULVERT INSTALLATION
NO SCALE



TYPICAL TRENCH DRAIN DETAIL
NO SCALE

NOTES

1. SEE DRAWING SS-1000 FOR GENERAL NOTES, LEGEND AND KEY PLAN.

NOT TO BE USED FOR CONSTRUCTION

08/07/10
 15:00
 10/11/10
 10/11/10

NO.	DATE	ISSUED FOR PERMITTING	REVISIONS AND RECORD OF ISSUE	BY	CHKD	DATE
0	08-07-2001	ISSUED FOR PERMITTING				

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A duly LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CALIFORNIA.		BLACK & VEATCH CORPORATION <small>INCORPORATED IN CALIFORNIA</small>
DESIGNED	CHKD	DATE
DRAWN	CHKD	DATE
CHECKED	DATE	

GWF ENERGY LLC TRACY PEAKER PROJECT		PROJECT 069389-SS-1004	REV 0
SITE - GRADING AND DRAINAGE SECTIONS AND DETAILS		CODE	AREA

