NACIMIENTO WATER PROJECT
DRAFT Preliminary Design Report Drawing List

BID PACKAGE 1

General

Drawing no	Title
G001	Units A and A1 Pipeline Cover Sheet

UNIT A: Station 0+00 to 88+52.81

Drawing no	Title
AP-C101	Plan and Profile Sta 0+00 to 10+00
AP-C102	Plan and Profile Sta 10+00 to 17+00
AP-C103	Plan and Profile Sta 17+00 to 26+00
AP-C104	Plan and Profile Sta 26+00 to 40+00
AP-C105	Plan and Profile Sta 40+00 to 54+00
AP-C106	Plan and Profile Sta 54+00 to 68+00
AP-C107	Plan and Profile Sta 68+00 to 82+00
AP-C108	Plan and Profile Sta 82+00 to 88+52.81

UNIT A1: Station 88+52.81 to 549+63.44

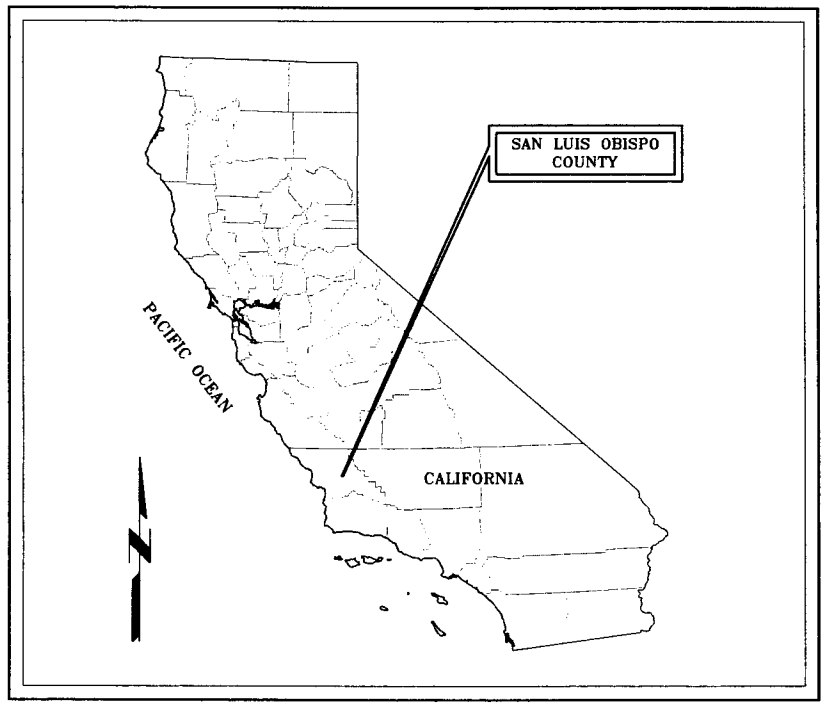
Drawing no	Title
A1P-C109	Plan and Profile Sta 88+52.81 to 96+00
A1P-C110	Plan and Profile Sta 96+00 to 97+62.56
A1P-C111	Plan and Profile Sta 115+42.31 to 124+00
A1P-C112	Plan and Profile Sta 124+00 to 138+00
A1P-C113	Plan and Profile Sta 138+00 to 152+00
A1P-C114	Plan and Profile Sta 152+00 to 166+00
A1P-C115	Plan and Profile Sta 166+00 to 180+00
A1P-C116	Plan and Profile Sta 180+00 to 194+00
A1P-C117	Plan and Profile Sta 194+00 to 208+00
A1P-C118	Plan and Profile Sta 208+00 to 222+00
A1P-C119	Plan and Profile Sta 222+00 to 236+00
A1P-C120	Plan and Profile Sta 236+00 to 250+00
A1P-C121	Plan and Profile Sta 250+00 to 264+00
A1P-C122	Plan and Profile Sta 264+00 to 278+00
A1P-C123	Plan and Profile Sta 278+00 to 292+00
A1P-C124	Plan and Profile Sta 292+00 to 306+00
A1P-C125	Plan and Profile Sta 306+00 to 320+00
A1P-C126	Plan and Profile Sta 320+00 to 334+00
A1P-C127	Plan and Profile Sta 334+00 to 348+00
A1P-C128	Plan and Profile Sta 348+00 to 362+00
A1P-C129	Plan and Profile Sta 362+00 to 376+00
A1P-C130	Plan and Profile Sta 376+00 to 390+00
A1P-C131	Plan and Profile Sta 390+00 to 404+00
A1P-C132	Plan and Profile Sta 404+00 to 418+00
A1P-C133	Plan and Profile Sta 418+00 to 432+00
A1P-C134	Plan and Profile Sta 432+00 to 446+00
A1P-C135	Plan and Profile Sta 446+00 to 460+00
A1P-C136	Plan and Profile Sta 460+00 to 474+00
A1P-C137	Plan and Profile Sta 474+00 to 488+00
A1P-C138	Plan and Profile Sta 488+00 to 502+00
A1P-C139	Plan and Profile Sta 502+00 to 516+00
A1P-C140	Plan and Profile Sta 516+00 to 527+00
A1P-C141	Plan and Profile Sta 527+00 to 538+00
A1P-C142	Plan and Profile Sta 538+00 to 549+63.44
A1P-C143	Plan and Profile Sta 97+78.04 to 115+42.31

COUNTY OF SAN LUIS OBISPO, CALIFORNIA
FLOOD CONTROL AND WATER CONSERVATION DISTRICT
PLANS FOR THE CONSTRUCTION OF

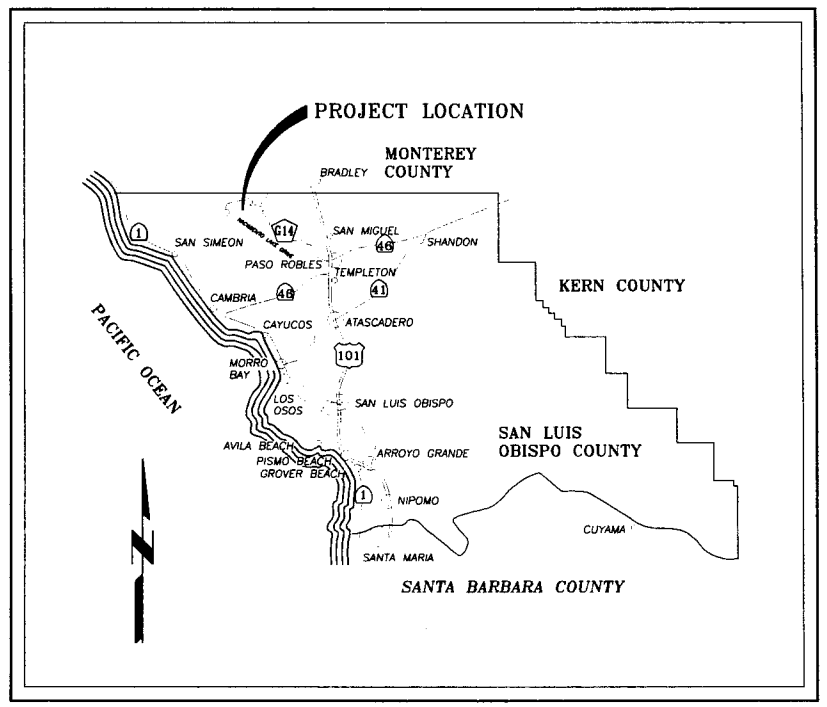
NWP NACIMIENTO WATER PROJECT

San Luis Obispo County Flood Control & Water Conservation District

B&V PROJECT NO. 137522
COUNTY CONTRACT NO. 300187.08
SPECIFICATION 01
UNITS A AND A1 PIPELINE



VICINITY MAP
NO SCALE



LOCATION MAP
NO SCALE

PRELIMINARY - NOT FOR CONSTRUCTION

THESE DOCUMENTS REPRESENT A 30% PERCENT COMPLETE DESIGN, ARE PRELIMINARY AND ARE NOT FOR CONSTRUCTION OR BIDDING PURPOSES. THESE DOCUMENTS WILL BE FURTHER REVISED BEFORE A FINAL DESIGN IS ACCOMPLISHED. THEY HAVE NOT RECEIVED REGULATORY REVIEW AND DO NOT HAVE FINAL APPROVAL OR ACCEPTANCE OF THE GOVERNING REGULATORY AGENCIES. THESE DOCUMENTS ARE PREPARED WITH THE STANDARD OF CARE FOR THE TIME, LOCALE, AND SYSTEM AS GIVEN IN THE DOCUMENTS. THESE DOCUMENTS ARE THE COPYRIGHTED PROPERTY OF BLACK & VEATCH AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT THE EXPRESS PERMISSION OF BLACK & VEATCH AND THEIR CLIENT, SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT.

SURVEYOR'S STATEMENT

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE LAND SURVEYOR'S ACT AT THE REQUEST OF COUNTY OF SAN LUIS OBISPO, IN _____ , _____ .

_____
L.S. XXXX (EXP. XX-XX-XXXX)

APPROVED:

_____
NACIMIENTO PROJECT MANAGER
RPE C59001 (EXP 6-30-2007)

APPROVED BY:
BLACK & VEATCH CORPORATION

_____
STEVE FOELLMI, P.E.
PROJECT MANAGER

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

CYGNET ID: 137522-G-BP1-E000010W
WF: BP1-G001.dwg
SAVED: MCC10764, 2/10/2006 11:39:57 AM
PLOTTED: MCC10764, 2/10/2006 11:40:05 AM
USER: MCC10764
DWG VER: 1.3

XREF1:
XREF2:
XREF3:
XREF4:
XREF5:

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ENERGY WATER INFORMATION GOVERNMENT

BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNITS A AND A1 PIPELINE
COVER SHEET

DESIGNED:
DETAILED: S. McCARTY
CHECKED:
APPROVED:
DATE: 2/22/06

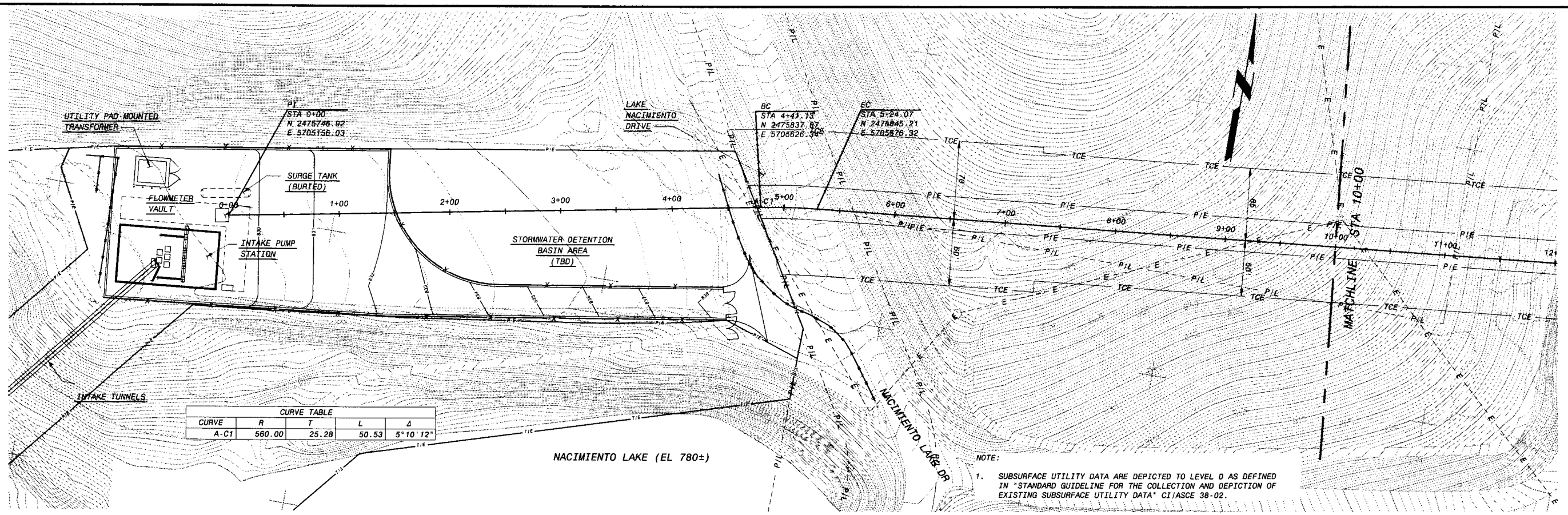
BV PROJECT NO.
137522

NWP PROJECT NO.
3000187.08

SPEC
01

G001
SHEET
OF

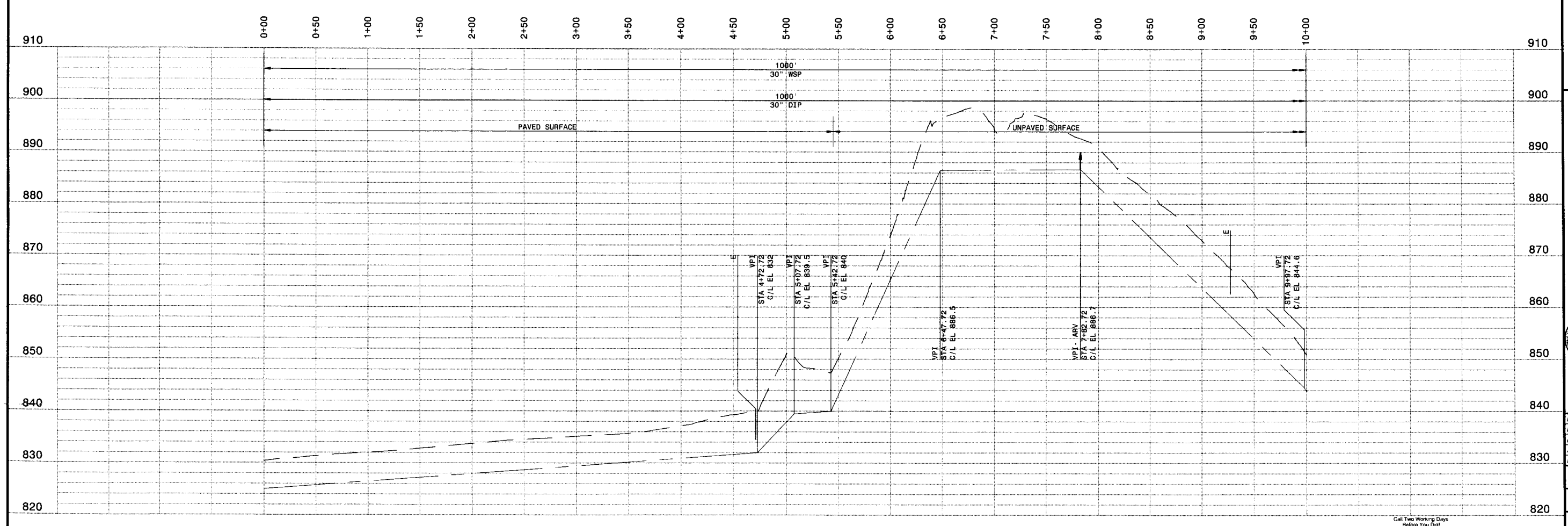
A0137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A-C1	560.00	25.28	50.53	5°10'12"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely.
1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

CYGNET ID: 137522-C-BP1-E00007N2P
WF: 16.1s (LMS Tech)
SAVED: MCC10764, 2/10/2006 9:39:06 AM
PLOTTED: 2/10/2006 12:51:07 PM, Batch Plot
USER: mcc10764
DWG VER: 1.7
XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOPO01.dwg

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. MIDDLETON
No. C061533
Exp. CIVIL
STATE OF CALIFORNIA

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BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A - PIPELINE
CIVIL
PLAN AND PROFILE STA 0+00 TO 10+00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06

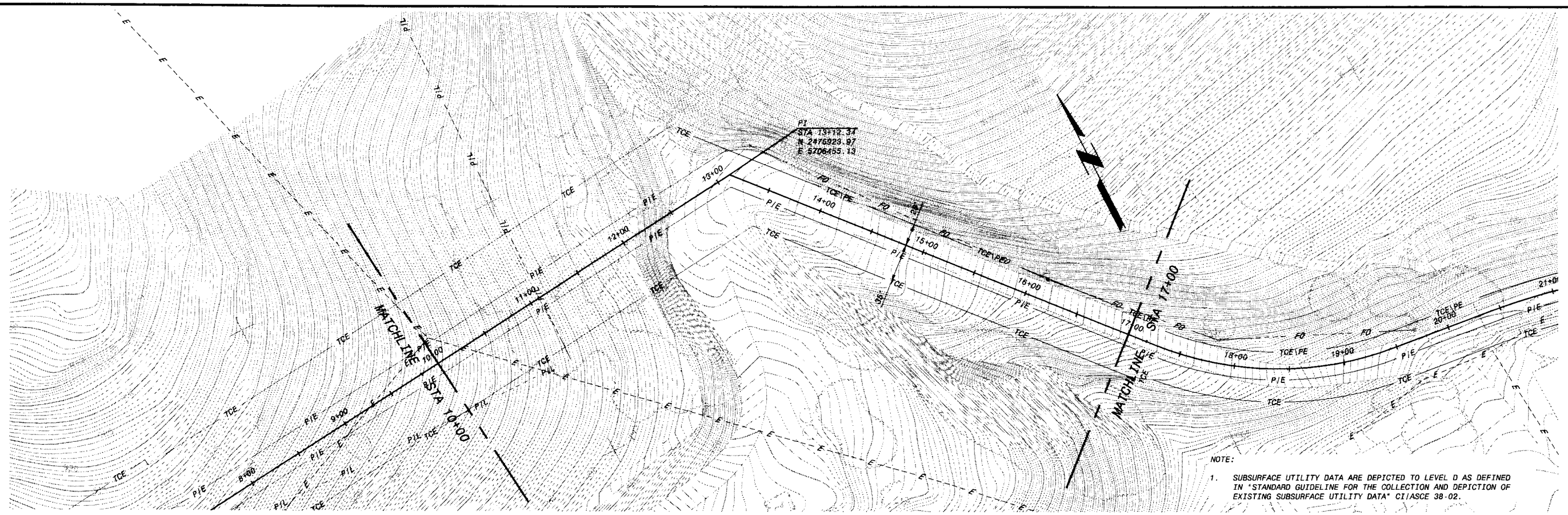
BV PROJECT NO.
137522

NWP PROJECT NO.
3000187.08

SPEC
01

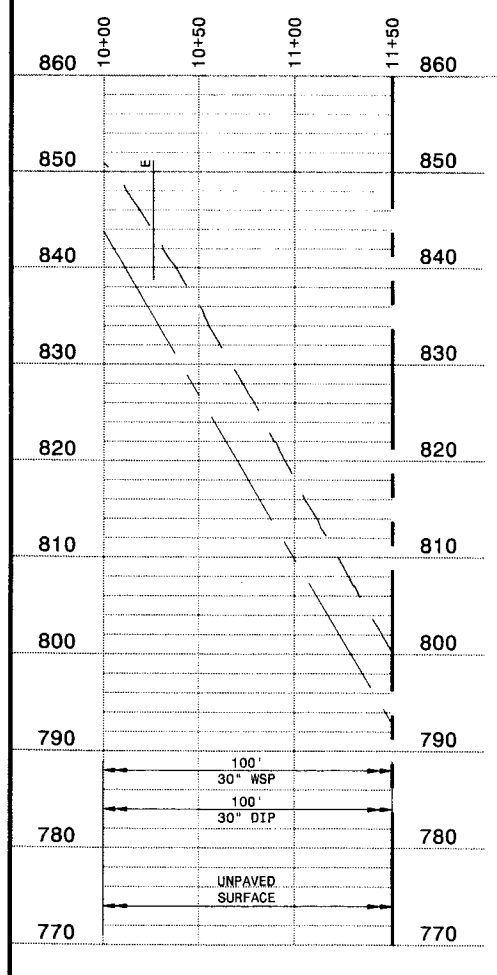
AP-C101
SHEET
OF

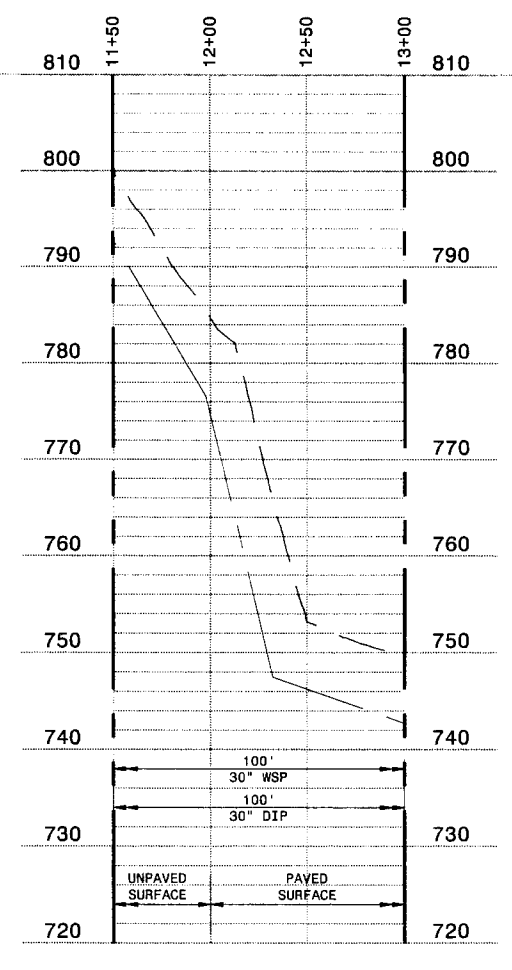
F0137522
0137522

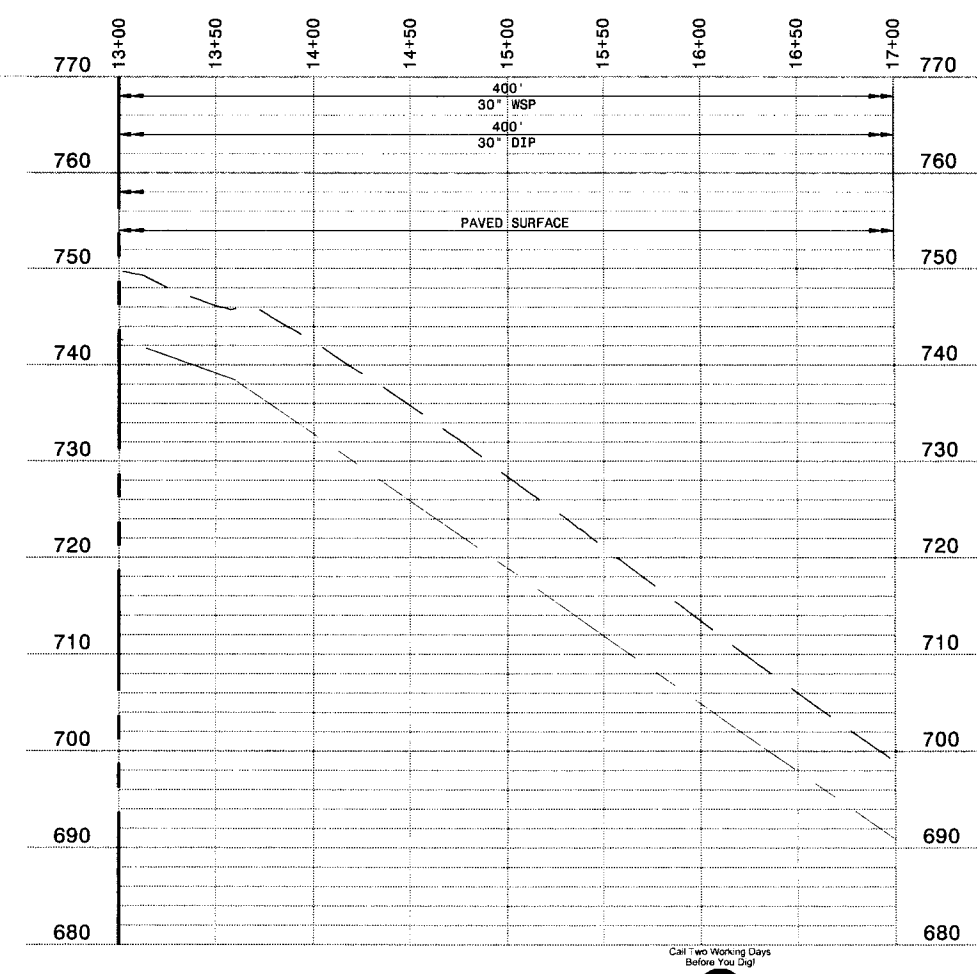


NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.







PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

CYGNET ID: 137522-C-BP1-E00007N20
WF: 16.1s (LMS Tech)
SAVED: MCC10764, 2/10/2006 9:38:59 AM
PLOTTED: 2/10/2006 12:51:59 PM, Batch Plot
USER: mcc10764
DWG VER: 1.3
XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOPO01.dwg

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. MIDDLETON
No. C061533
Exp. CIVIL
STATE OF CALIFORNIA

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BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

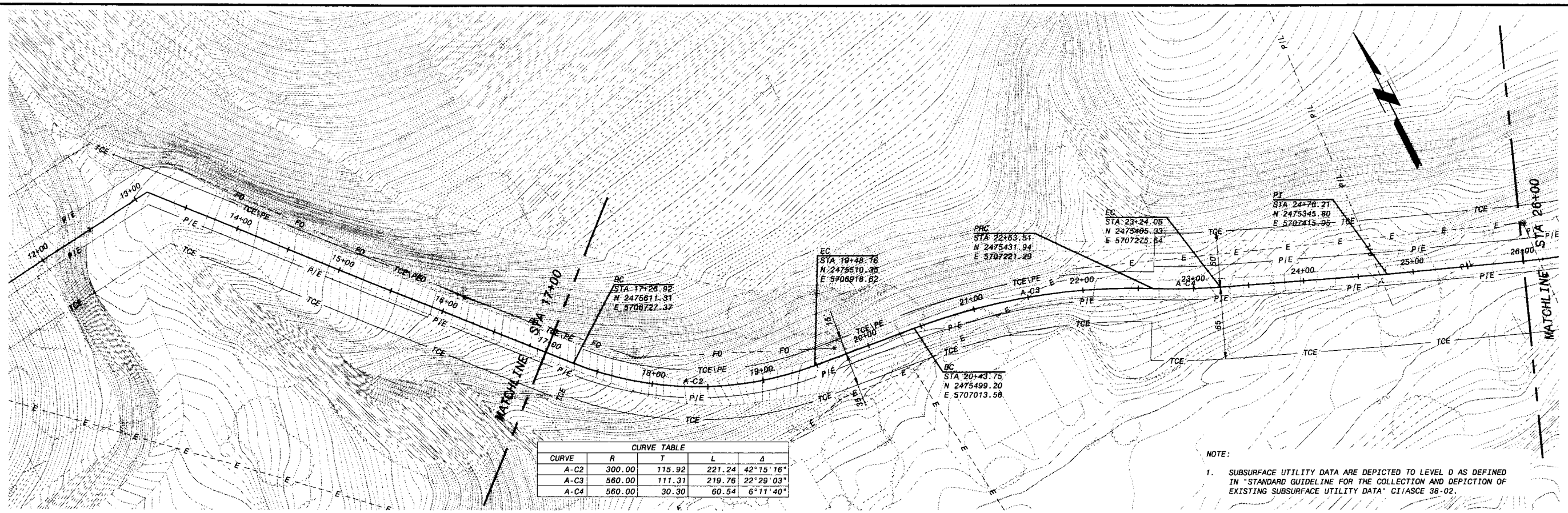
UNIT A - PIPELINE
CIVIL
PLAN AND PROFILE STA 10+00 TO 17+00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06

BV PROJECT NO. 137522
NWP PROJECT NO. 3000187.08
SPEC 01

AP-C102
SHEET
OF

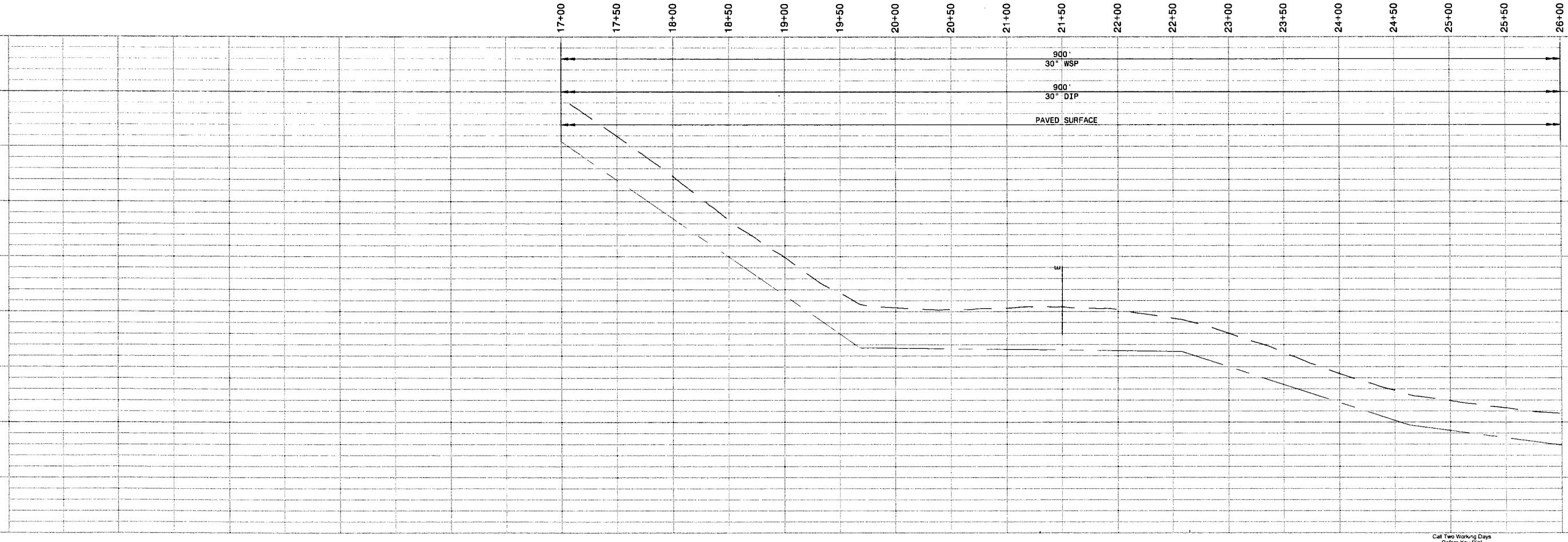
FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A-C2	300.00	115.92	221.24	42°15'16"
A-C3	560.00	111.31	219.76	22°29'03"
A-C4	560.00	30.30	60.54	6°11'40"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

CYGNET ID: 137522-C-BP1-E00007N2R
WF: 16.1s (LMS Tech)
SAVED: MCC10764, 2/10/2006 9:38:51 AM
PLOTTED: 2/10/2006 12:52:54 PM, Batch Plot
USER: mcc10764
DWG VER: 1.3
XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOPO01.dwg

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. MIDDLETON
No. C061533
Exp. CIVIL
STATE OF CALIFORNIA

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BOYLE
ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A - PIPELINE
CIVIL
PLAN AND PROFILE STA 17+00 TO 26+00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06

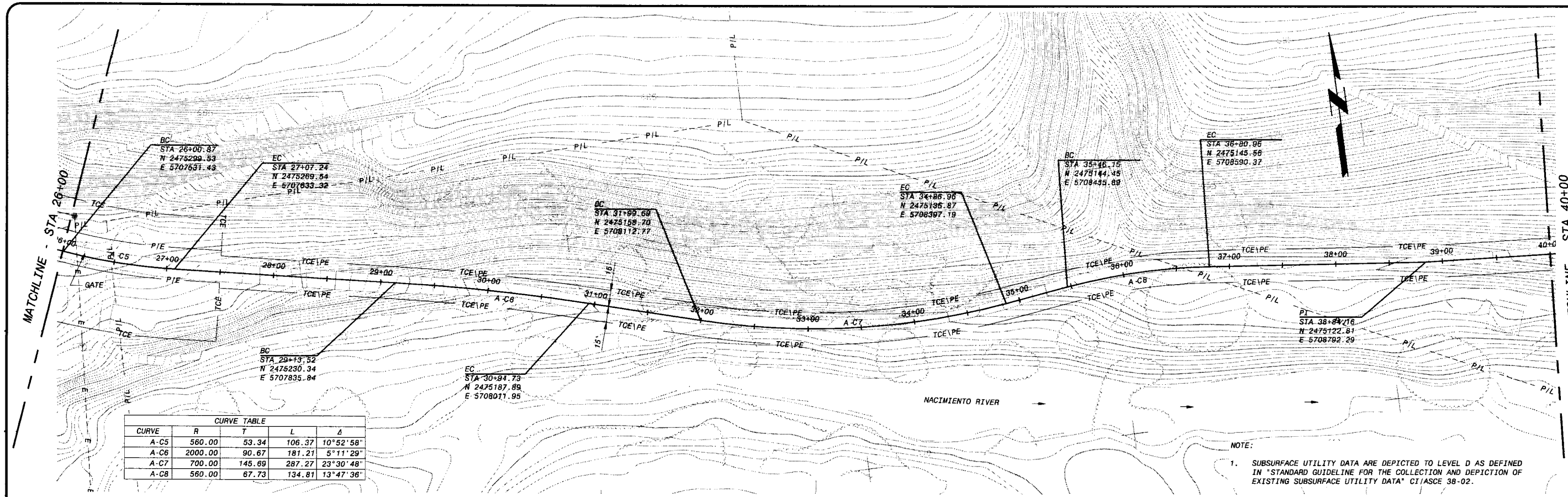
BV PROJECT NO.
137522

NWP PROJECT NO.
3000187.08

SPEC
01

AP-C103
SHEET
OF

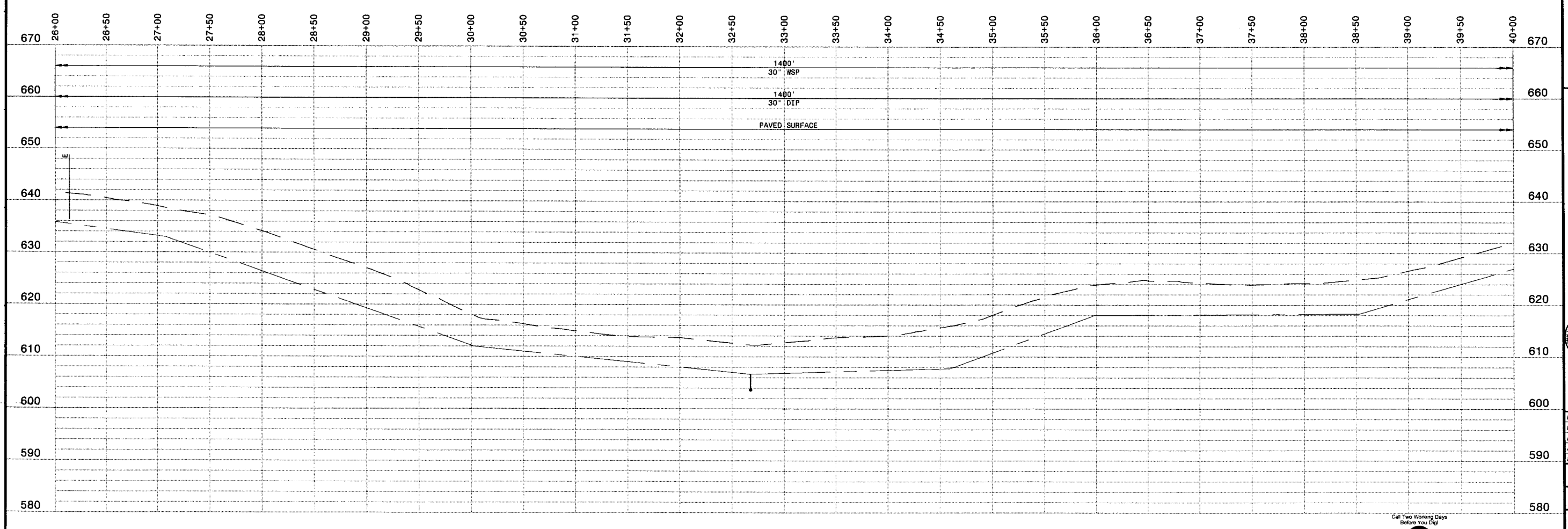
FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A-C5	560.00	53.34	106.37	10°52'58"
A-C6	2000.00	90.67	181.21	5°11'29"
A-C7	700.00	145.69	287.27	23°30'48"
A-C8	560.00	67.73	134.81	13°47'36"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

CYGNET ID: 137522-C-BP1-E00007NXS
WF: 16.1s (LMS Tech)
SAVED: BUL41266, 2/7/2006 4:07:17 PM
PLOTTED: 2/10/2006 12:54:47 PM, Batch Plot
USER: acc10764

XREF1:BP1-C-HAL001.dwg
XREF2:BP1-C-UTIL01.dwg
XREF3:BP1-C-VAL001.dwg
XREF4:BP1-C-CNTY-PARC.dwg
XREF5:C-TOPO01.dwg
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. MIDDLETON
No. C061933
CIVIL
STATE OF CALIFORNIA

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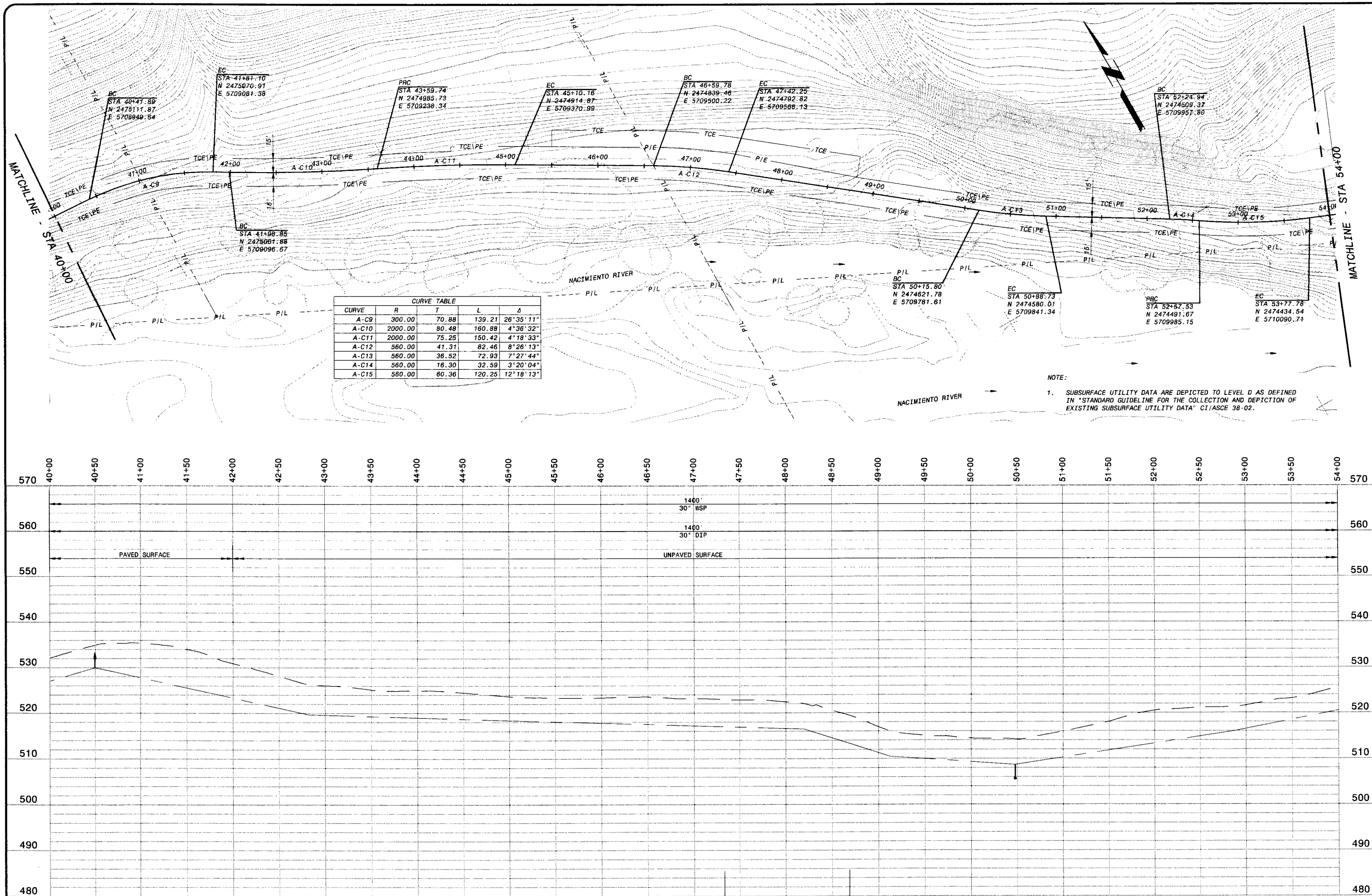
BOYLE
ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT
San Luis Obispo County Flood Control & Water Conservation District

UNIT A - PIPELINE
CIVIL
PLAN AND PROFILE STA 26+00 TO 40+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	AP-C104
SHEET OF	

FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A-C9	300.00	70.88	139.21	26°35'11"
A-C10	2000.00	80.48	160.88	4°36'32"
A-C11	2000.00	75.25	150.42	4°18'33"
A-C12	560.00	41.31	82.46	8°26'13"
A-C13	560.00	36.52	72.93	7°27'44"
A-C14	560.00	16.30	32.59	3°20'04"
A-C15	560.00	60.36	120.25	12°18'13"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.

PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
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0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

CYGNET ID: 137522-C-BP1-E00007N2T
WF: 16.1s (LMS Tech)
SAVED: BUL41266, 2/7/2006 4:05:59 PM
PLOTTED: 2/10/2006 12:55:38 PM, Batch Plot
USER: mcc10764
XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOPO02.dwg
DWG VER: 1.4

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061533 Exp. CIVIL STATE OF CALIFORNIA

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BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

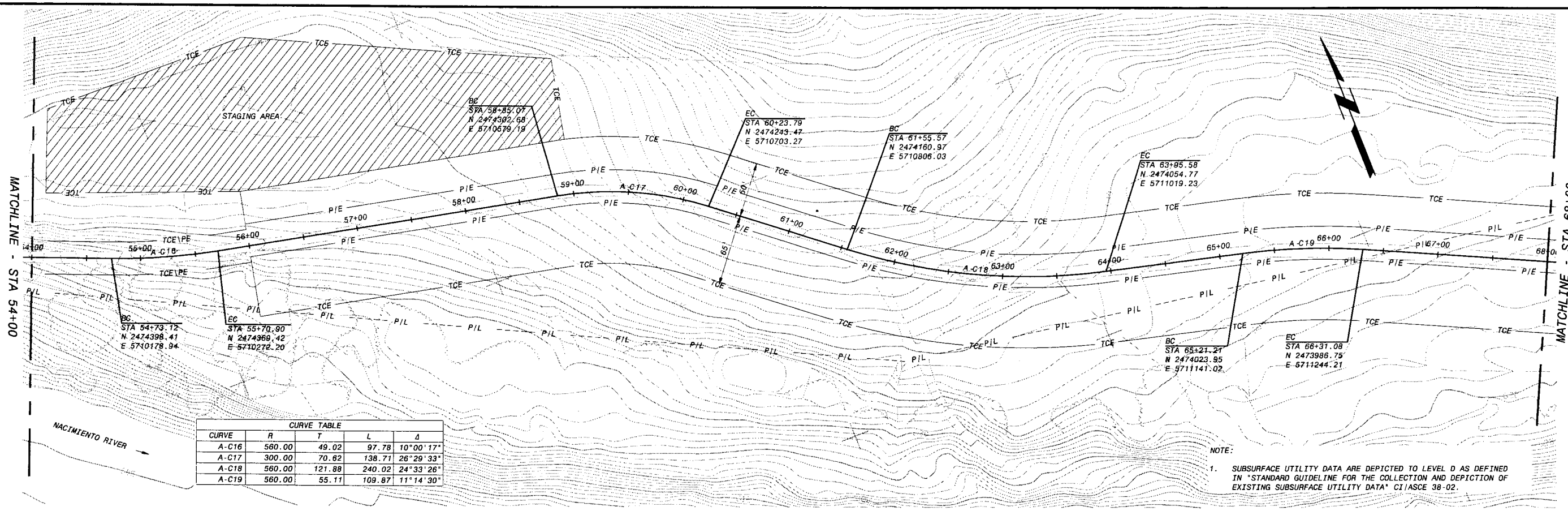
UNIT A - PIPELINE
CIVIL
PLAN AND PROFILE STA 40+00 TO 54+00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06

BV PROJECT NO. 137522
NWP PROJECT NO. 3000187.08
SPEC 01

AP-C105
SHEET
OF

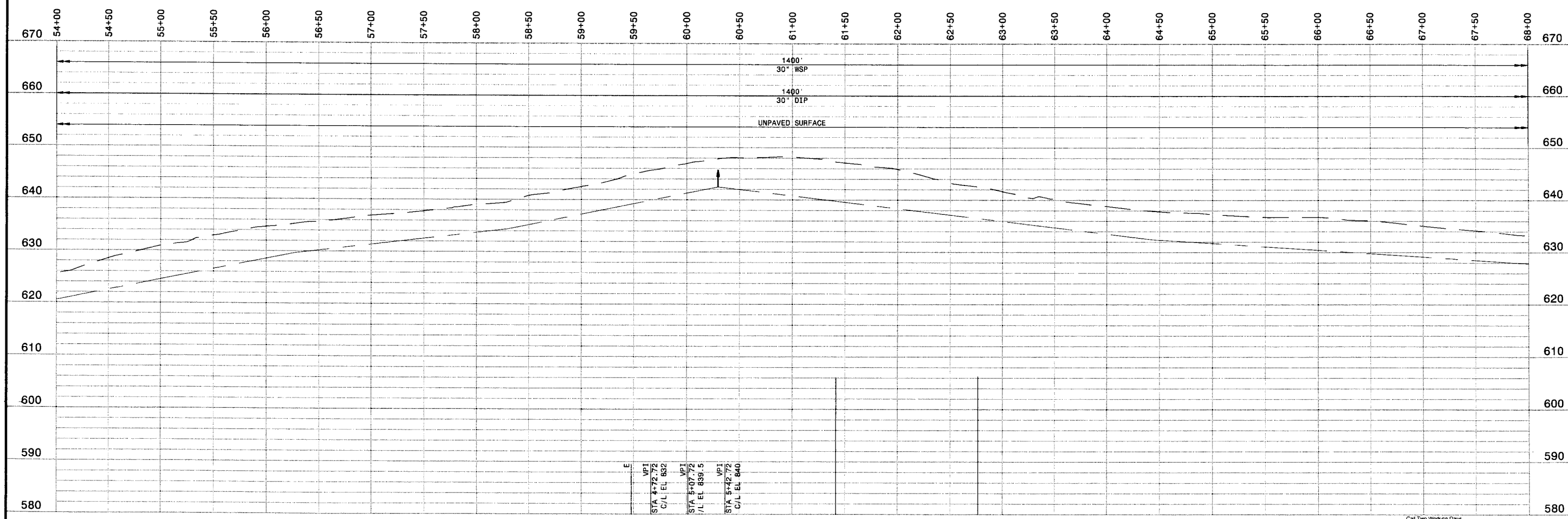
FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A-C16	560.00	49.02	97.78	10°00'17"
A-C17	300.00	70.62	138.71	26°29'33"
A-C18	560.00	121.88	240.02	24°33'26"
A-C19	560.00	55.11	109.87	11°14'30"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
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0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

CYGNET ID: 137522-C-BP1-E00007N2V
WF: 16.1s (LMS Tech)
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PLOTTED: 2/10/2006 12:56:27 PM, Batch Plot
USER: mcc10764
DWG VER: 1.4
XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOPO02.dwg

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061533 Exp. CIVIL STATE OF CALIFORNIA

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ENERGY WATER INFORMATION GOVERNMENT

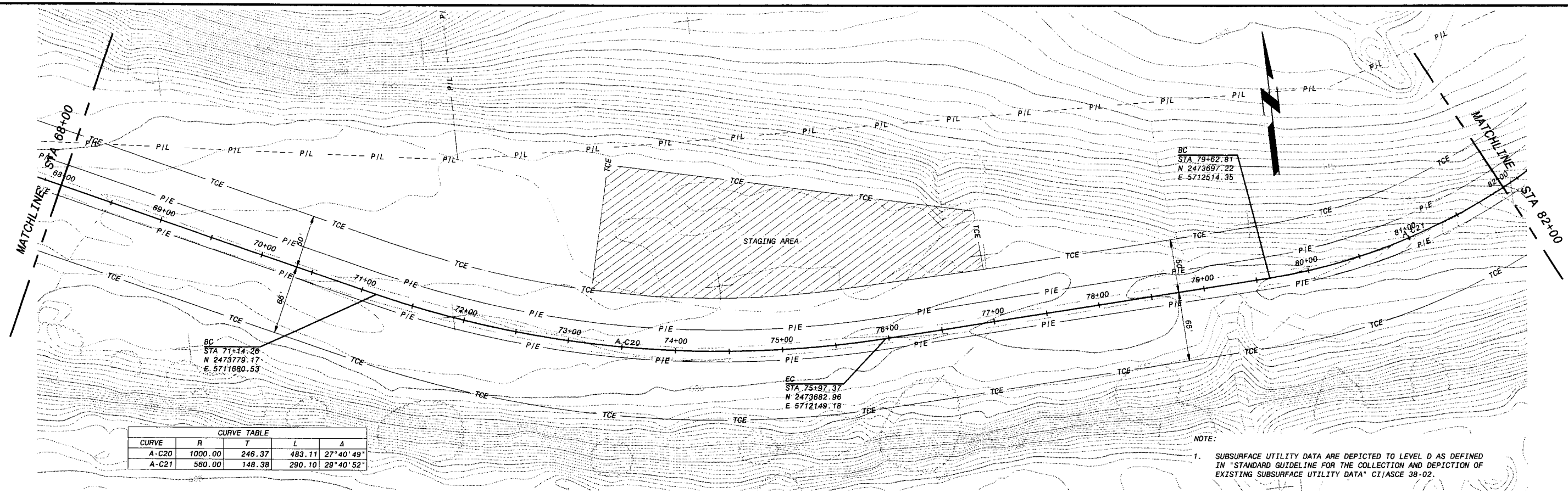
BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

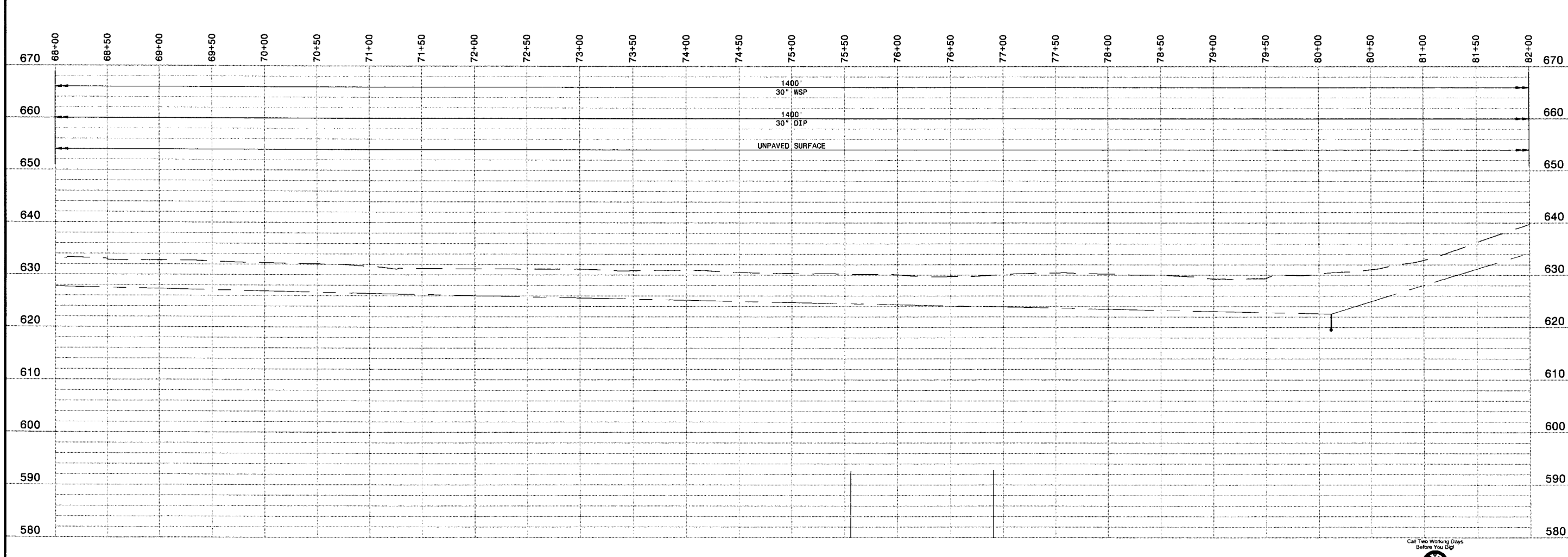
UNIT A - PIPELINE
CIVIL
PLAN AND PROFILE STA 54+00 TO 68+00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06
BV PROJECT NO. 137522
NWP PROJECT NO. 3000187.08
SPEC 01
AP-C106
SHEET OF

FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A-C20	1000.00	246.37	483.11	27°40'49"
A-C21	560.00	148.38	290.10	29°40'52"



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

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0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

CYGNET ID: 137522: C-BP1-E0000TN2W | XREF1:BP1-C-VALN01.dwg
WP: 16.1s (LMS Tech) | XREF2:BP1-C-UTIL01.dwg
SAVED: BUL41386, 2/7/2006 4:04:10 PM | XREF3:BP1-C-VALN01.dwg
PLOTTED: 2/10/2006 12:57:09 PM, Batch Plot | XREF4:BP1-C-CNTY-PARC.dwg
USER: mcc10764 | DWG VER: 1.3 | XREF5:C-TOPO02.dwg

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061533 CIVIL STATE OF CALIFORNIA

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ENERGY WATER INFORMATION GOVERNMENT

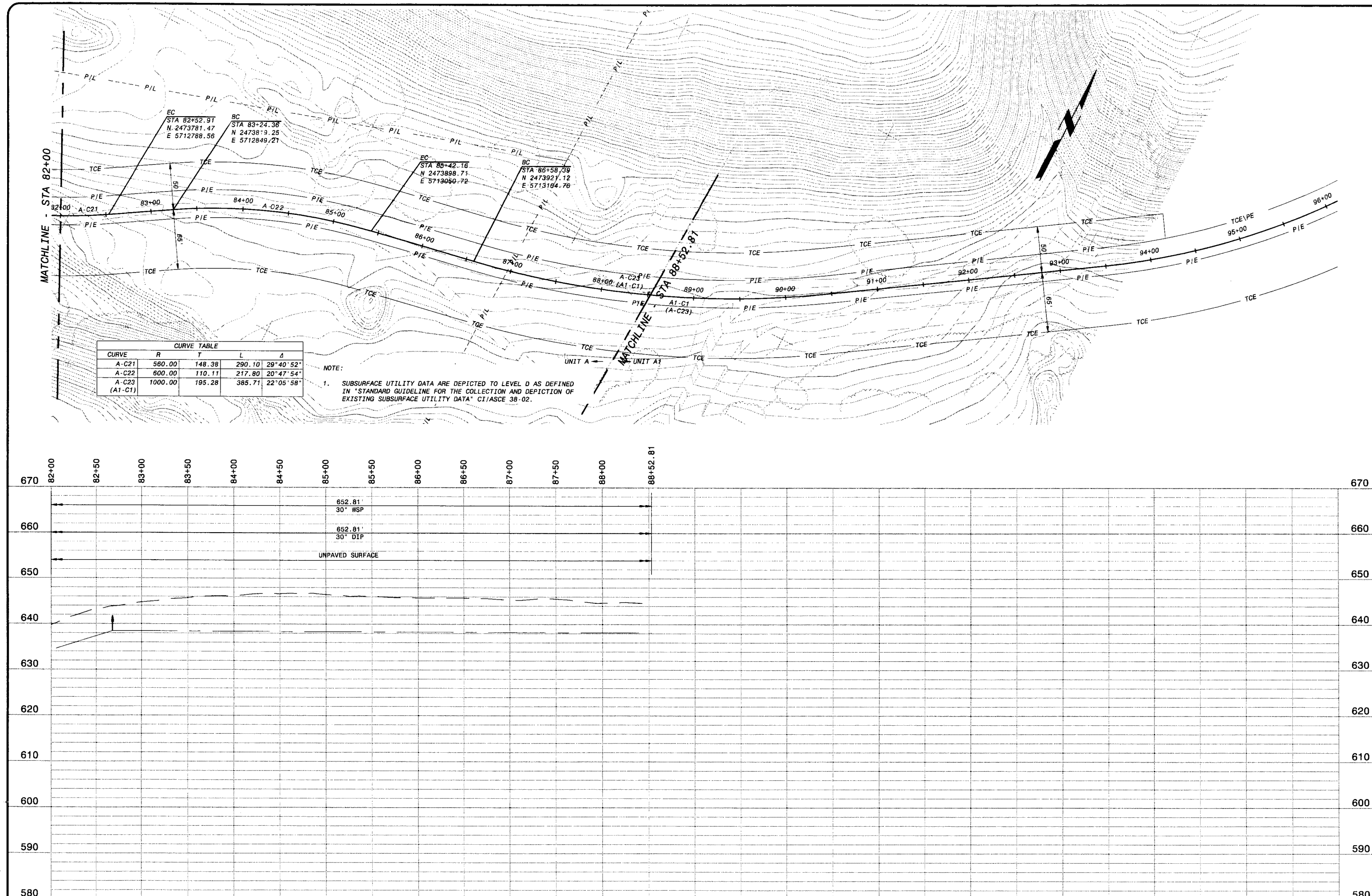
BOYLE
ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A - PIPELINE
CIVIL
PLAN AND PROFILE STA 68+00 TO 82+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	AP-C107
SHEET OF	

FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A-C21	560.00	148.38	290.10	29°40'52"
A-C22	600.00	110.11	217.80	20°47'54"
A-C23 (A1-C1)	1000.00	195.28	385.71	22°05'58"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.

PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP

REVISIONS AND RECORD OF ISSUE

DATE

CYGNET ID: 137522-C-BP1-E00007N2X
WF: 16.1s (LMS Tech)
SAVED: BUL41266, 2/7/2006 4:03:12 PM
PLOTTED: 2/10/2006 12:57:51 PM, Batch Plot
USER: mcc10764
DWG VER: 1.6

XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOPO02.dwg

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061533 Exp. CIVIL STATE OF CALIFORNIA

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BOYLE ENGINEERING CORPORATION

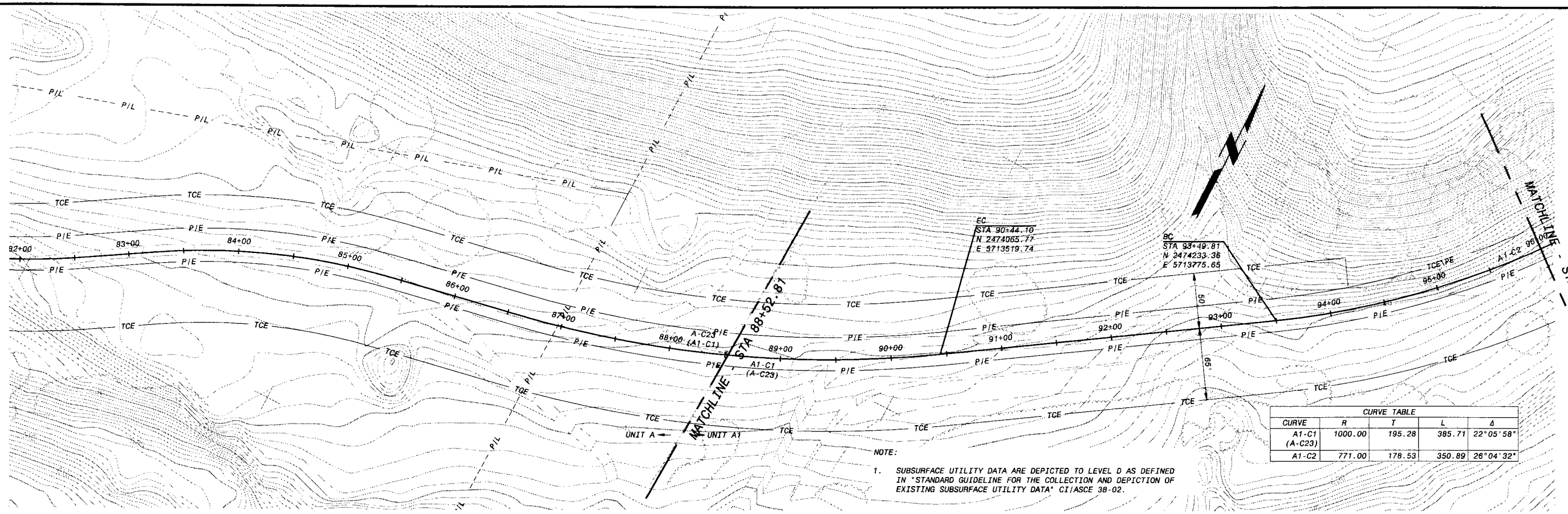
NWP NACIMIENTO WATER PROJECT

UNIT A - PIPELINE
CIVIL
PLAN AND PROFILE STA 82+00 TO 88+52.81

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06

BV PROJECT NO. 137522
NWP PROJECT NO. 3000187.08
SPEC 01
AP-C108
SHEET OF

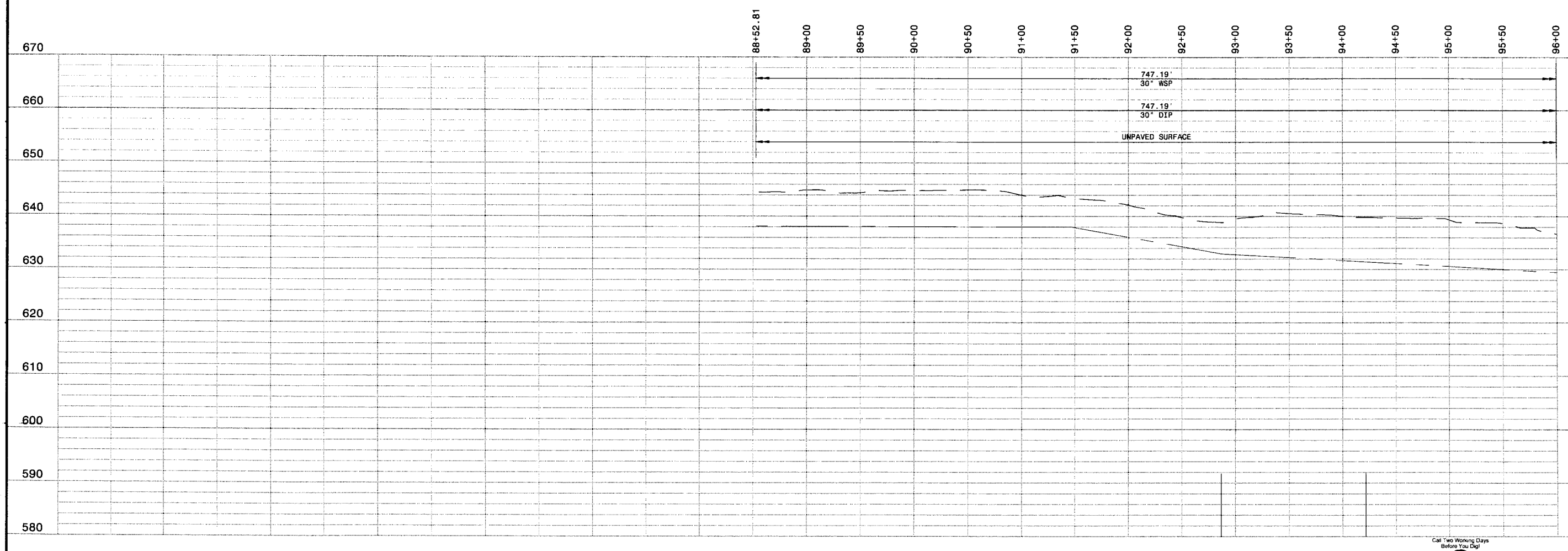
FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C1 (A-C23)	1000.00	195.28	385.71	22°05'58"
A1-C2	771.00	178.53	350.89	26°04'32"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE
					CYGNET ID: 137522-C-BP1-E00007M2Y
					WF: 16.1s (LMS Tech)
					SAVED: MCC10764, 2/9/2006 5:01:30 PM
					PLOTTED: 2/10/2006 12:17:27 PM, Batch Plot
					USER: mcc10764

XREF1:BP1-C-HAL001.dwg
XREF2:BP1-C-UTIL01.dwg
XREF3:BP1-C-VAL001.dwg
XREF4:BP1-C-CNTY-PARC.dwg
XREF5:C-TOP002.dwg
DWG VER: 1.6

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. MIDDLETON
No C061533
CIVIL
STATE OF CALIFORNIA

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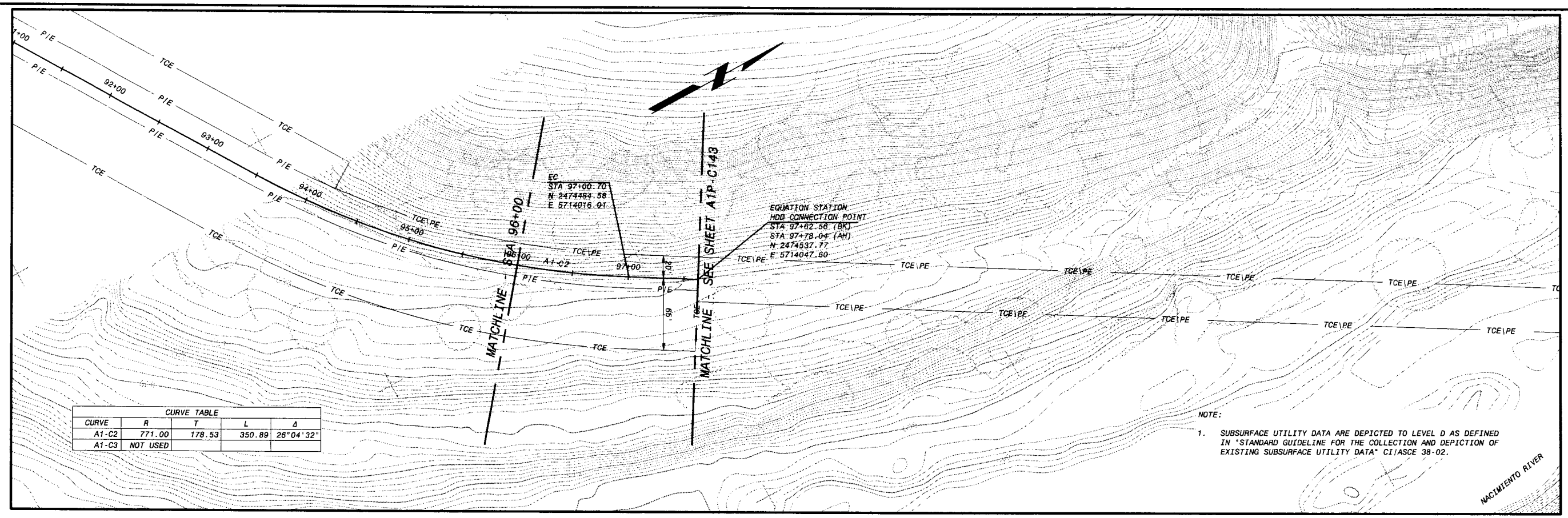
BOYLE
ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

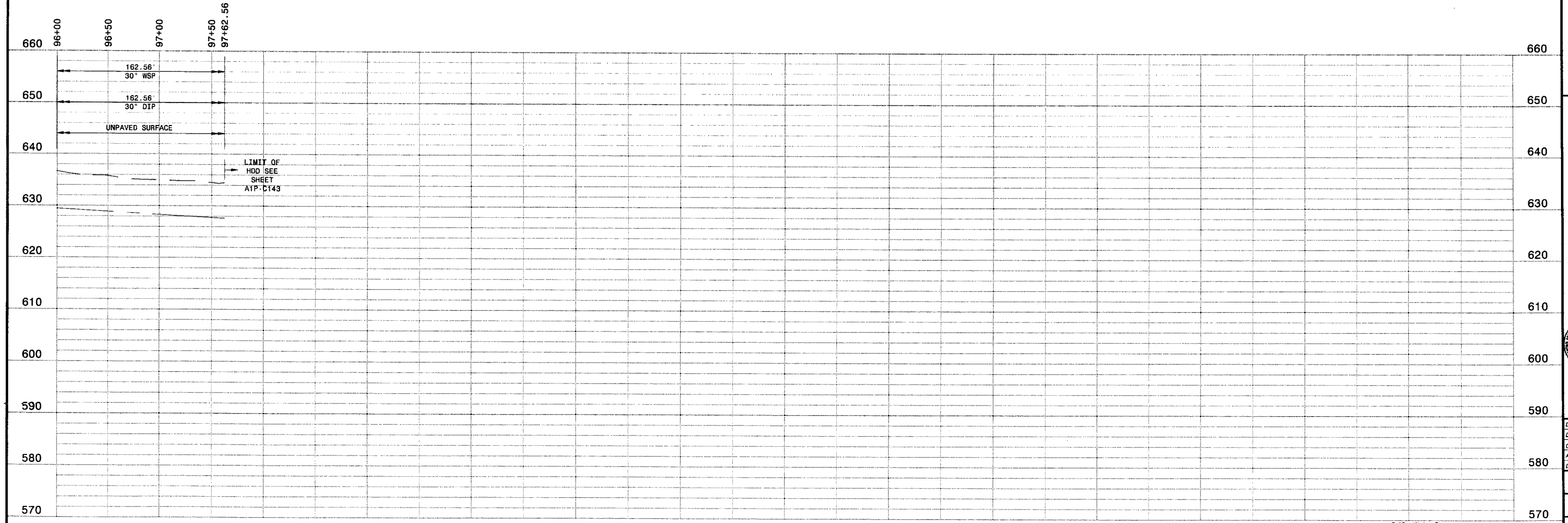
UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 88+52.81 TO 96+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	30000187.08
SPEC	01
	A1P-C109
SHEET OF	

FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C2	771.00	178.53	350.89	26°04'32"
A1-C3	NOT USED			



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

CYGNET ID: 137522.C.BP1-E0000TN22
WF: 16.1% (LMS Tech)
SAVED: MCC10784, 2/01/2006 5:01:23 PM
PLOTTED: 2/10/2006 12:18:20 PM, Batch Plot
USER: mcc10784

XREF1:BP1-C-HALN01.dwg
XREF2:BP1-C-UTIL01.dwg
XREF3:BP1-C-VALN01.dwg
XREF4:BP1-C-CNTY-PARC.dwg
XREF5:C-TOPO03.dwg
DWG VER: 1.4

REGISTERED PROFESSIONAL ENGINEER MICHAEL C. MIDDLETON No. C061531 CIVIL STATE OF CALIFORNIA

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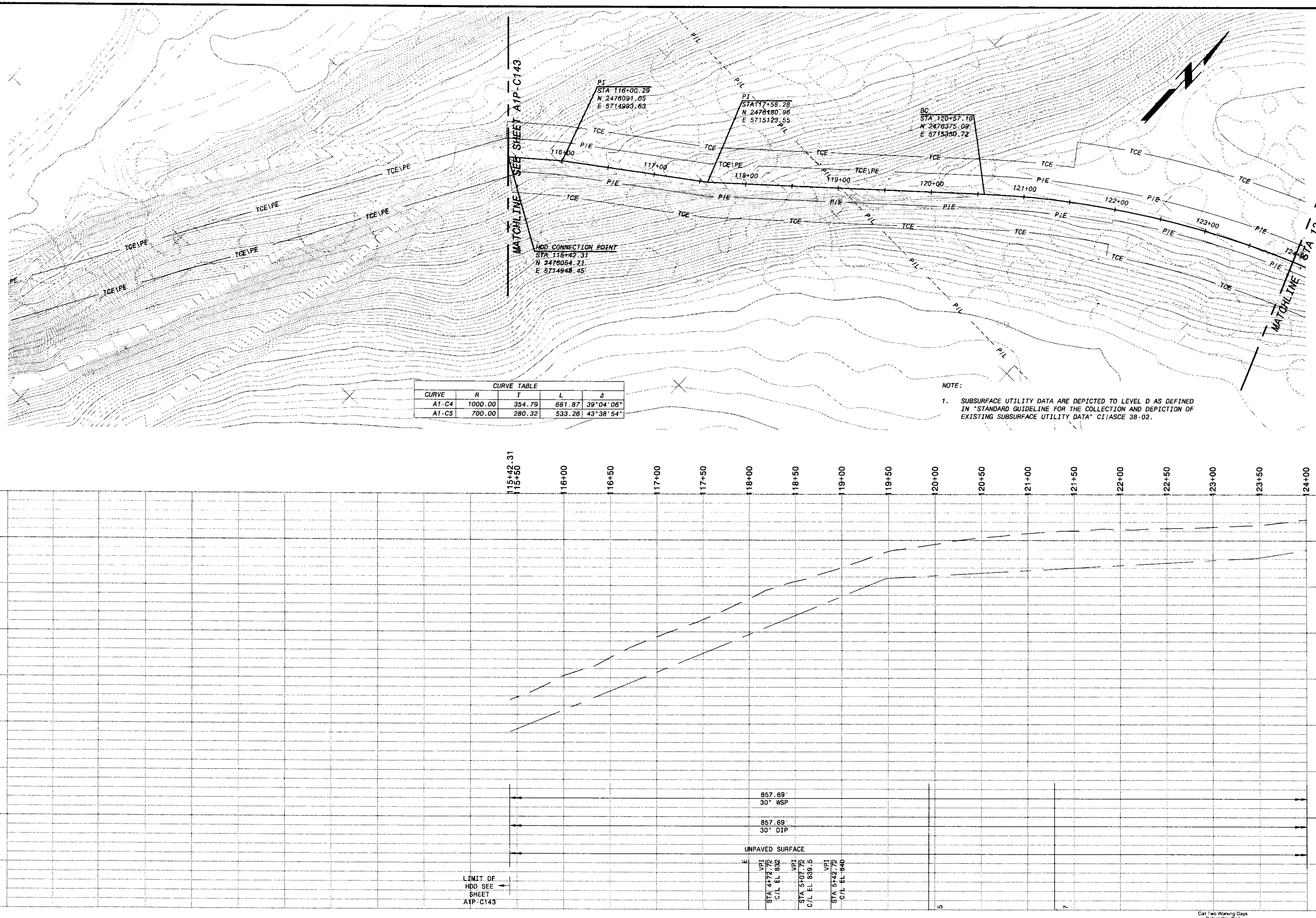
BOYLE ENGINEERING CORPORATION

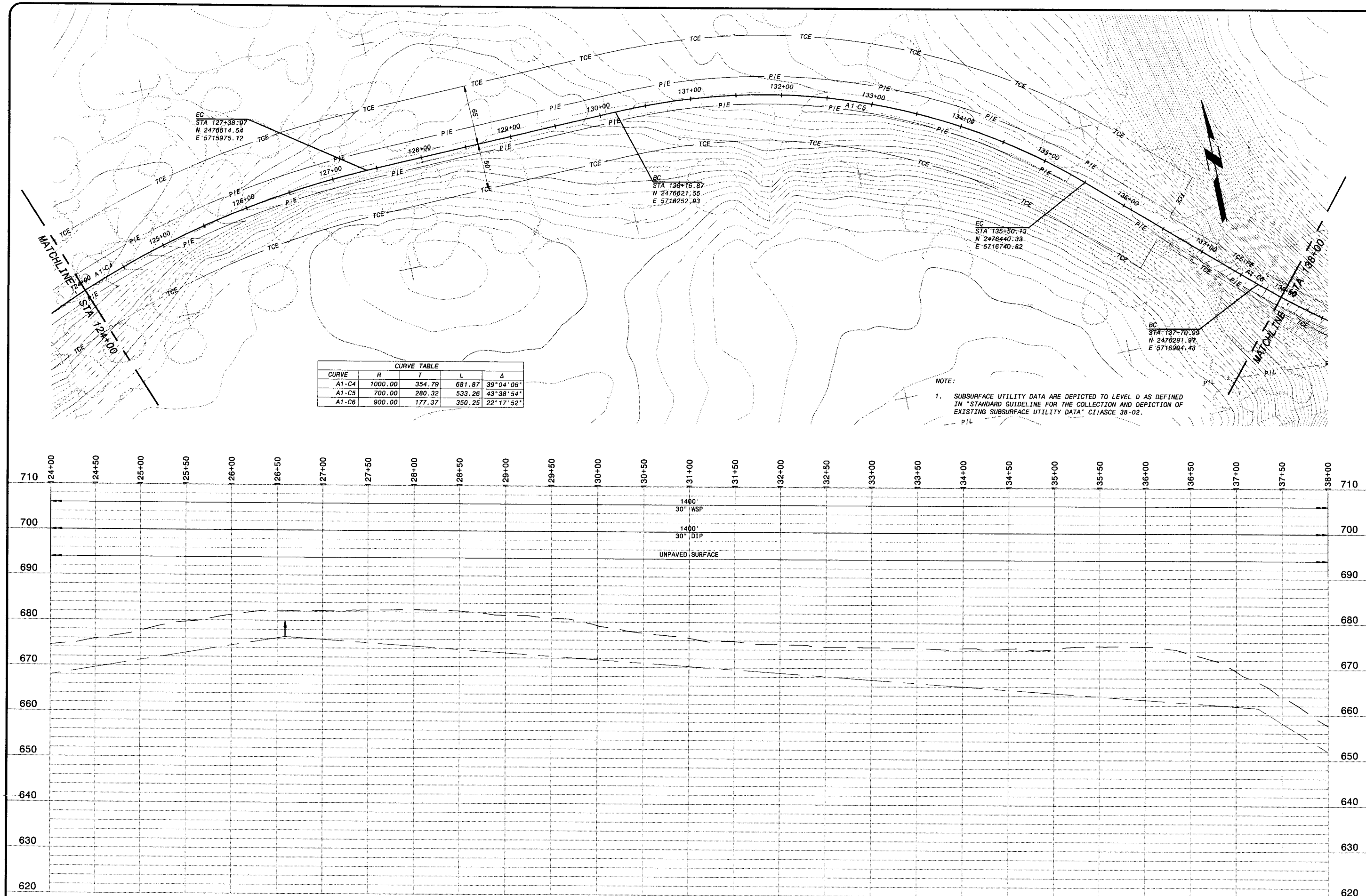
NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 96+00 TO 97+62.56

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	A1P-C110
SHEET OF	

FD137522
D137522


P/L
P/L
P/L



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C4	1000.00	354.79	681.87	39°04'06"
A1-C5	700.00	280.32	533.26	43°38'54"
A1-C6	900.00	177.37	350.25	22°17'52"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.

PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

CYGNET ID: 137522-C-BP1-E00007N31
WF: 16.1s (LMS Tech)
SAVED: MCC10764, 2/9/2006 5:01:10 PM
PLOTTED: 2/10/2006 12:19:48 PM, Batch Plot
USER: mcc10764
DWG VER: 1.3
XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOP003.dwg

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061533 Exp. CIVIL STATE OF CALIFORNIA

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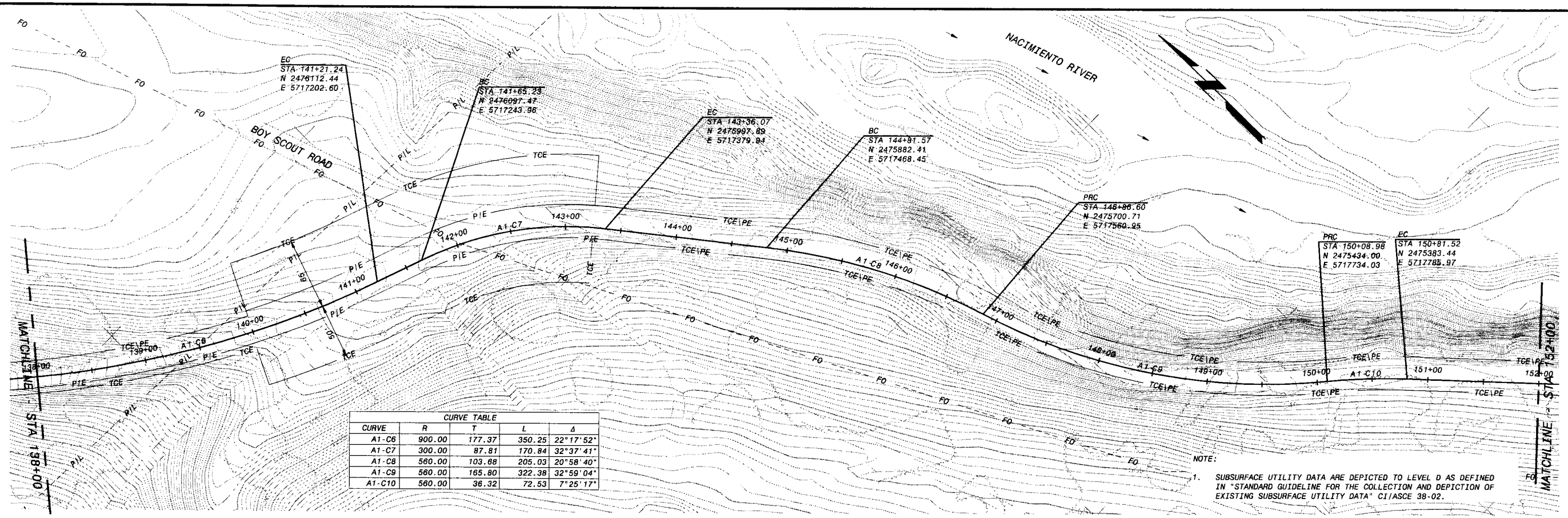
BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 124+00 TO 138+00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06
BV PROJECT NO. 137522
NWP PROJECT NO. 3000187.08
SPEC 01
A1P-C112
SHEET OF

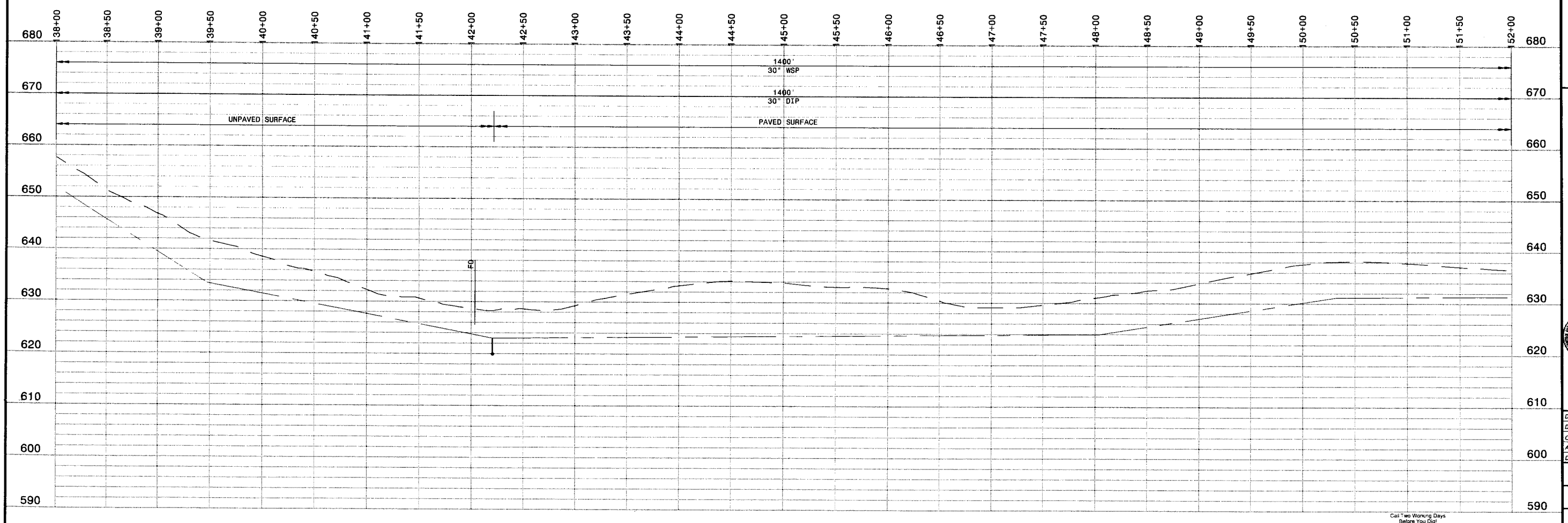
FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C6	900.00	177.37	350.25	22°17'52"
A1-C7	300.00	87.81	170.84	32°37'41"
A1-C8	560.00	103.68	205.03	20°58'40"
A1-C9	560.00	165.80	322.38	32°59'04"
A1-C10	560.00	36.32	72.53	7°25'17"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	REVISIONS AND RECORD OF ISSUE	DATE
				XREF1:BP1-C-HALNO1.dwg	
				XREF2:BP1-C-UTIL01.dwg	
				XREF3:BP1-C-VALN01.dwg	
				XREF4:BP1-C-CNTY-PARC.dwg	
				XREF5:C-TOPO03.dwg	

CYGNET ID: 137522-C-BP1-E00007N32
WF: 16.1s (LMS Tech)
SAVED: MCC10764, 2/9/2006 5:01:04 PM
PLOTTED: 2/10/2006 12:20:32 PM, Batch Plot
USER: mcc10764
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. MIDDLETON
No. C061533
CIVIL
STATE OF CALIFORNIA

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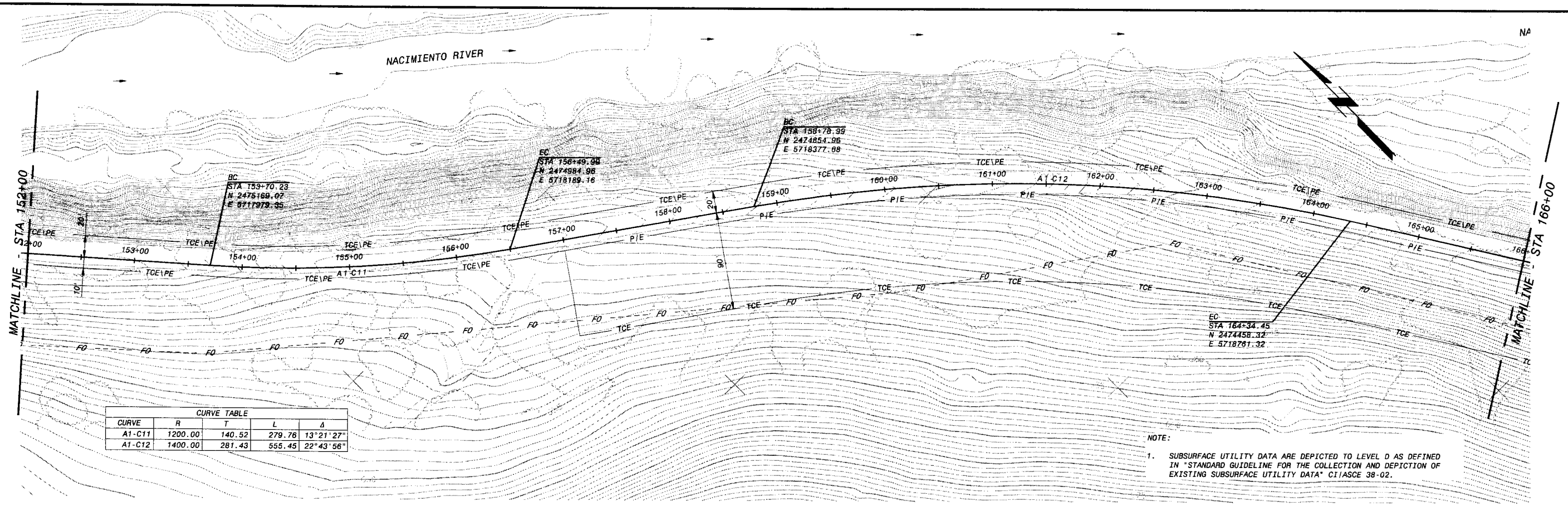
BOYLE
ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 138+00 TO 152+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	A1P-C113
SHEET OF	

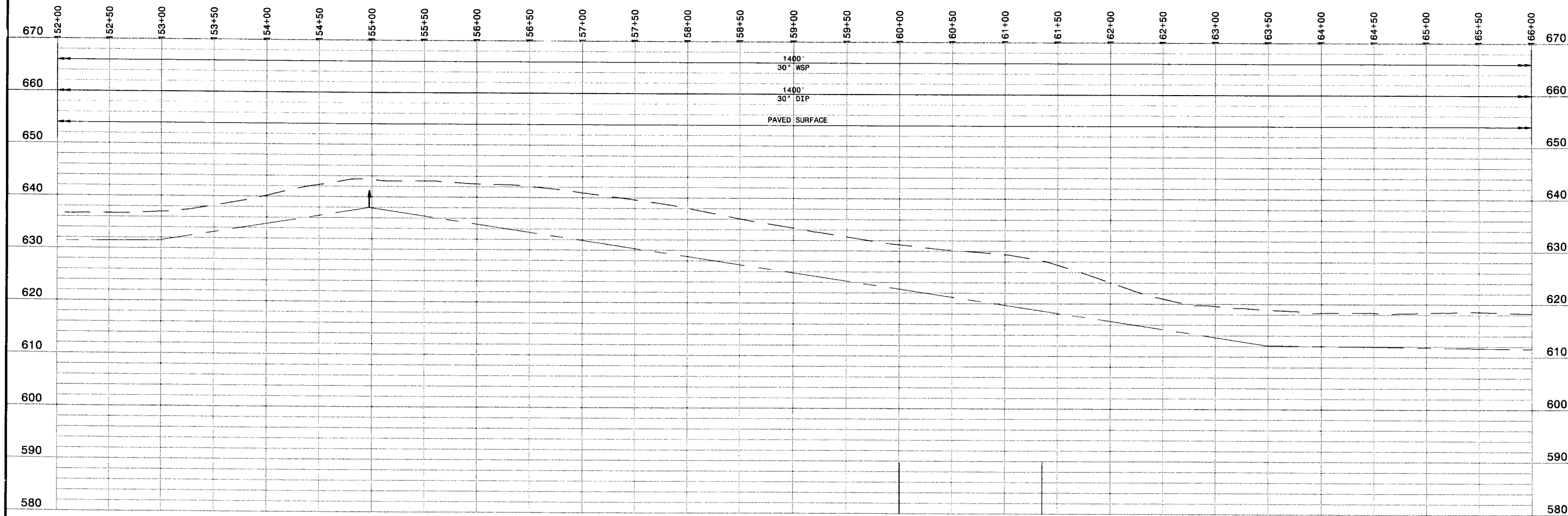
FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C11	1200.00	140.52	279.76	13°21'27"
A1-C12	1400.00	281.43	555.45	22°43'56"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely.
1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP
CYGNET ID: 137522-C BP1-E00007N33	XREF1:BP1-C-HALN01.dwg				
WF: 16.1s (LMS Tech)	XREF2:BP1-C-UTIL01.dwg				
SAVED: MCC10764, 2/9/2006 5:00:57 PM	XREF3:BP1-C-VALN01.dwg				
PLOTTED: 2/10/2006 12:25:23 PM, Batch Plot	XREF4:BP1-C-CNTY-PARC.dwg				
USER: mcc10764	DWG VER: 1.3	XREF5:C-TOPO04.dwg			

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. MIDDLETON
No. C061533
Exp. CIVIL
STATE OF CALIFORNIA

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BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 152+00 TO 166+00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06

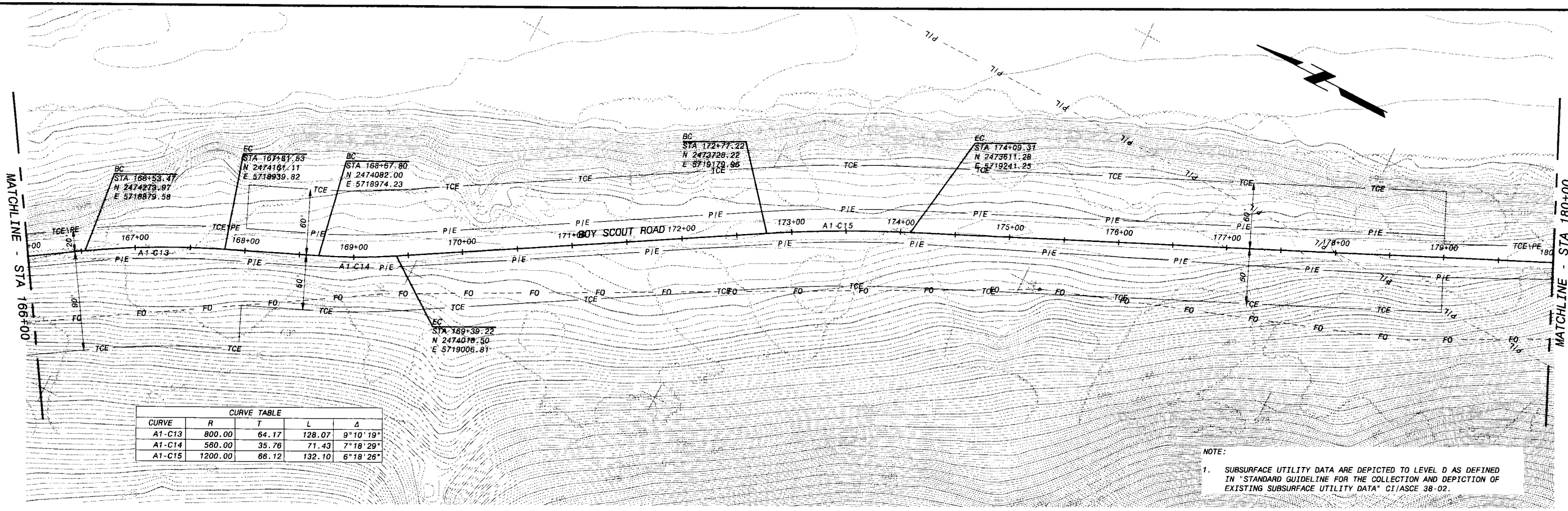
BV PROJECT NO.
137522

NWP PROJECT NO.
3000187.08

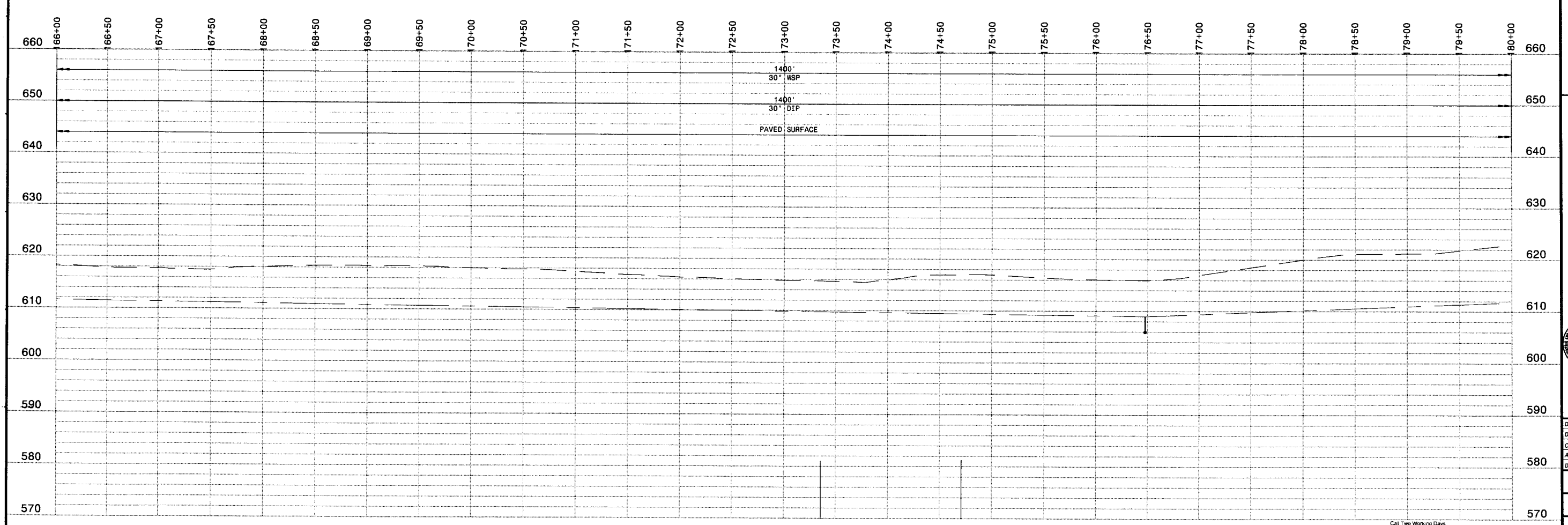
SPEC
01

A1P-C114
SHEET
OF

FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C13	800.00	64.17	128.07	9°10'19"
A1-C14	560.00	35.76	71.43	7°18'29"
A1-C15	1200.00	66.12	132.10	6°18'26"



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE
					CYGNET ID: 137522-C-BP1.E00007N39
					WF: 16.1s (LMS Tech)
					SAVED: MCC10764, 2/9/2006 5:00:51 PM
					PLOTTED: 2/10/2006 12:26:14 PM, Bacon Plot
					USER: mcc10764

XREF1:BP1-C-HALN01.dwg
XREF2:BP1-C-UTIL01.dwg
XREF3:BP1-C-VALN01.dwg
XREF4:BP1-C-CNTY-PARC.dwg
XREF5:C-TOPO04.dwg
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No C061533 CIVIL STATE OF CALIFORNIA

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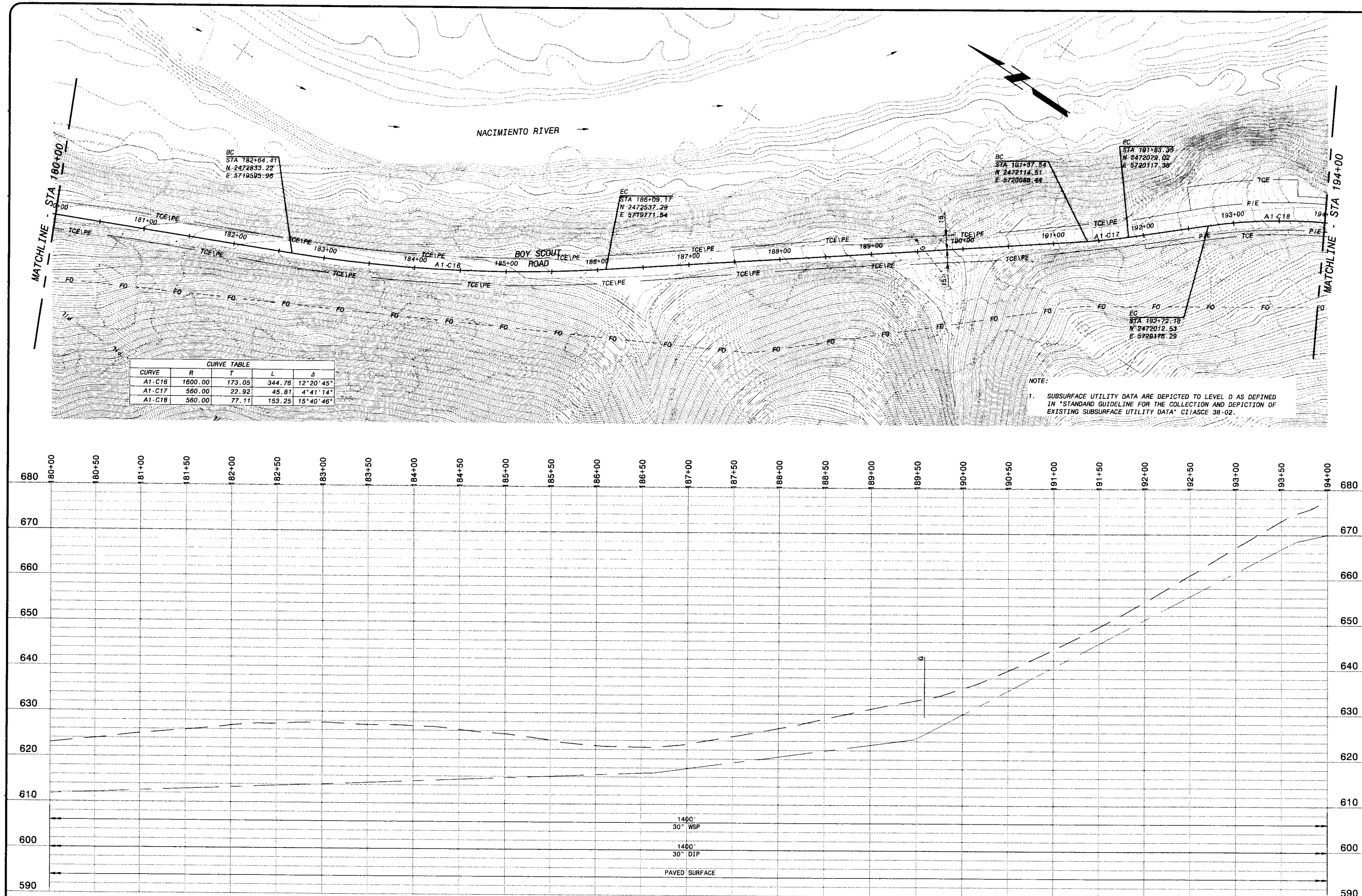
BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 166+00 TO 180+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	A1P-C115
SHEET OF	

FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C16	1600.00	173.05	344.76	12°20'45"
A1-C17	560.00	22.92	45.81	4°41'14"
A1-C18	560.00	77.11	153.25	15°40'46"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.

PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

CYGNET ID: 137522-C-BP1-E00007N3B
WF: 16.1s (LMS Tech)
SAVED: MCC10764, 2/9/2006 5:00:44 PM
PLOTTED: 2/10/2006 12:27:00 PM, Batch Plot
USER: mcc10764
DWG VER: 1.3
XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOP004.dwg

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061533 Exp. CIVIL STATE OF CALIFORNIA

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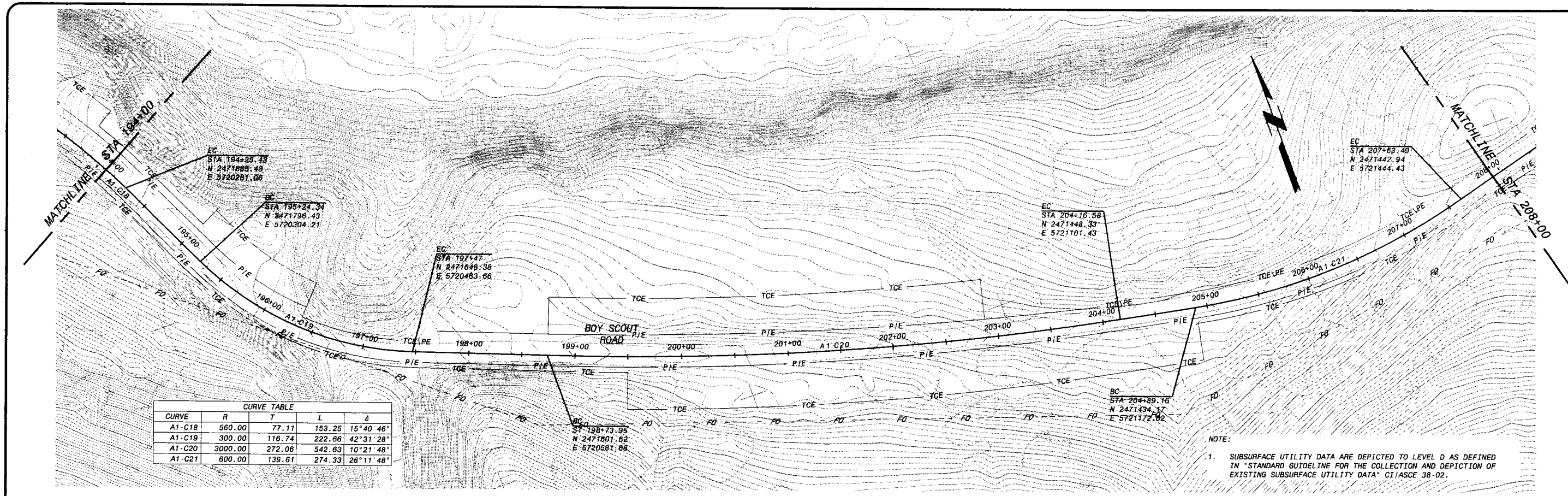
BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 180+00 TO 194+00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06
BV PROJECT NO. 137522
NWP PROJECT NO. 3000187.08
SPEC 01
A1P-C116
SHEET OF

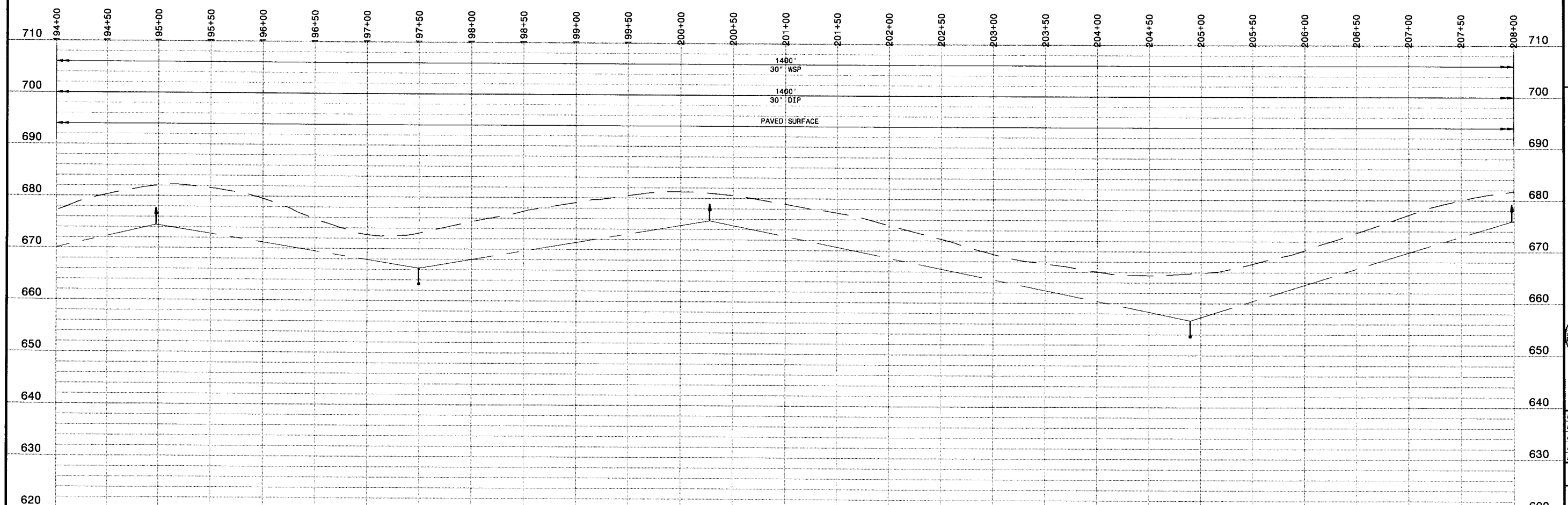
FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C18	560.00	77.11	153.25	15°40'46"
A1-C19	300.00	116.74	222.66	42°31'28"
A1-C20	3000.00	272.06	542.63	10°21'48"
A1-C21	600.00	139.61	274.33	26°11'48"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE
					CYGNET ID: 137522-C-BP1 E00007N3C
					WF: 16.1s (LMS Tech)
					SAVED: MCC10764, 2/9/2006 5:00:37 PM
					PLOTTED: 2/10/2006 12:27:47 PM, Batch Plot
					USER: mcc10764

XREF1:BP1-C-HALN01.dwg
XREF2:BP1-C-UTIL01.dwg
XREF3:BP1-C-VALN01.dwg
XREF4:BP1-C-CNTY-PARC.dwg
XREF5:C-TOPO04.dwg
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061533 CIVIL STATE OF CALIFORNIA

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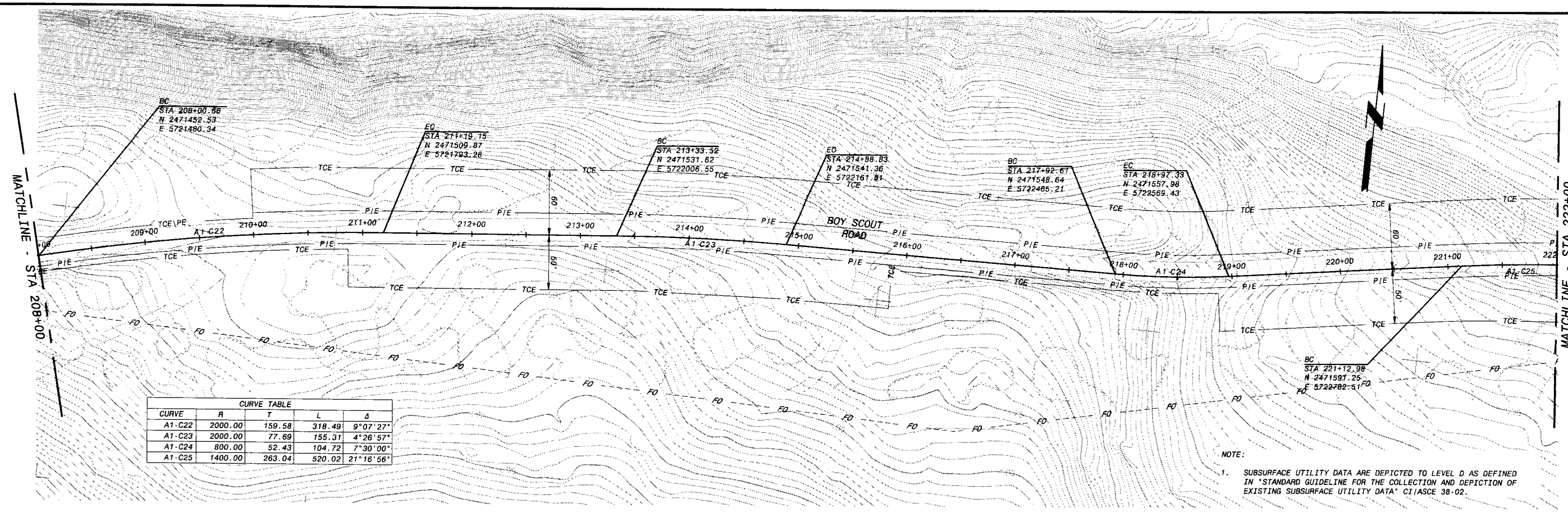
BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 194+00 TO 208+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
SHEET	A1P-C117
OF	

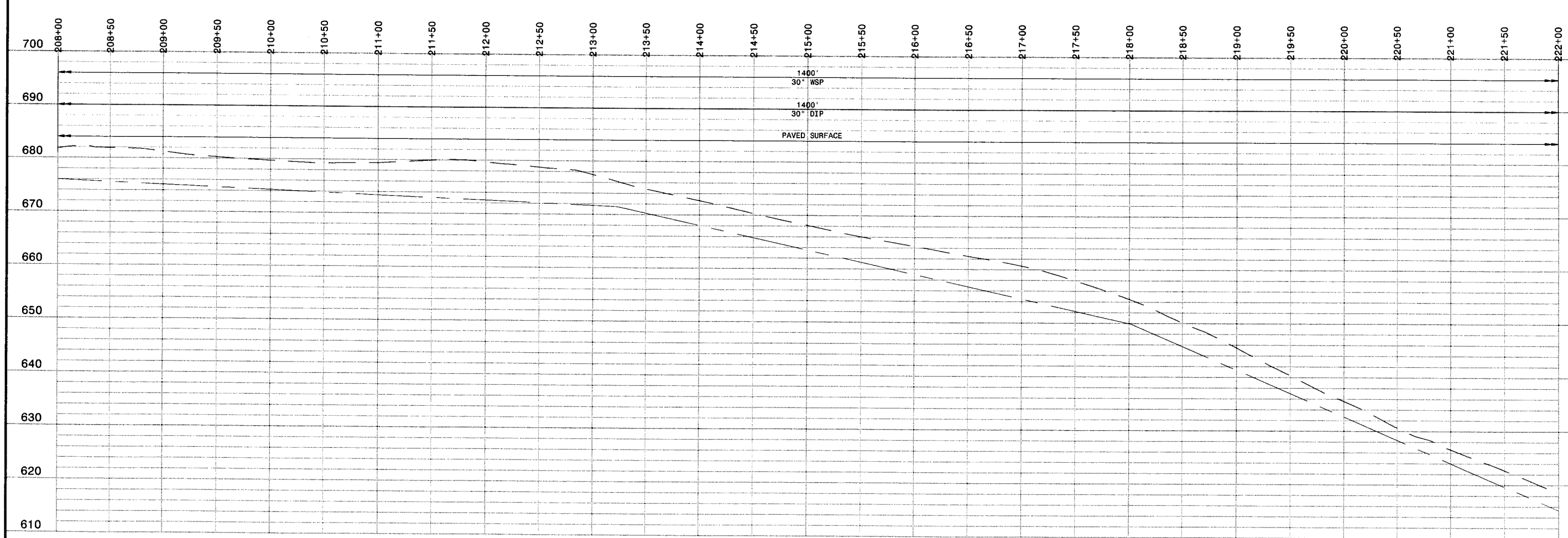
FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C22	2000.00	159.58	318.49	9°07'27"
A1-C23	2000.00	77.69	155.31	4°26'57"
A1-C24	800.00	52.43	104.72	7°30'00"
A1-C25	1400.00	263.04	520.02	21°16'56"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

CYGNET ID: 13/522-C-BP1-E0000TN3D
WF: 16.1s (LMS Tech)
SAVED: MCC10764, 2/9/2006 5:00:30 PM
PLOTTED: 2/10/2006 12:28:39 PM, Batch Plot
USER: MCC10764
XREF1:BP1-C-HALN01.dwg
XREF2:BP1-C-UTIL01.dwg
XREF3:BP1-C-VALN01.dwg
XREF4:BP1-C-CNTY PARC.dwg
XREF5:C-TOPO04.dwg
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No 061533 CIVIL STATE OF CALIFORNIA

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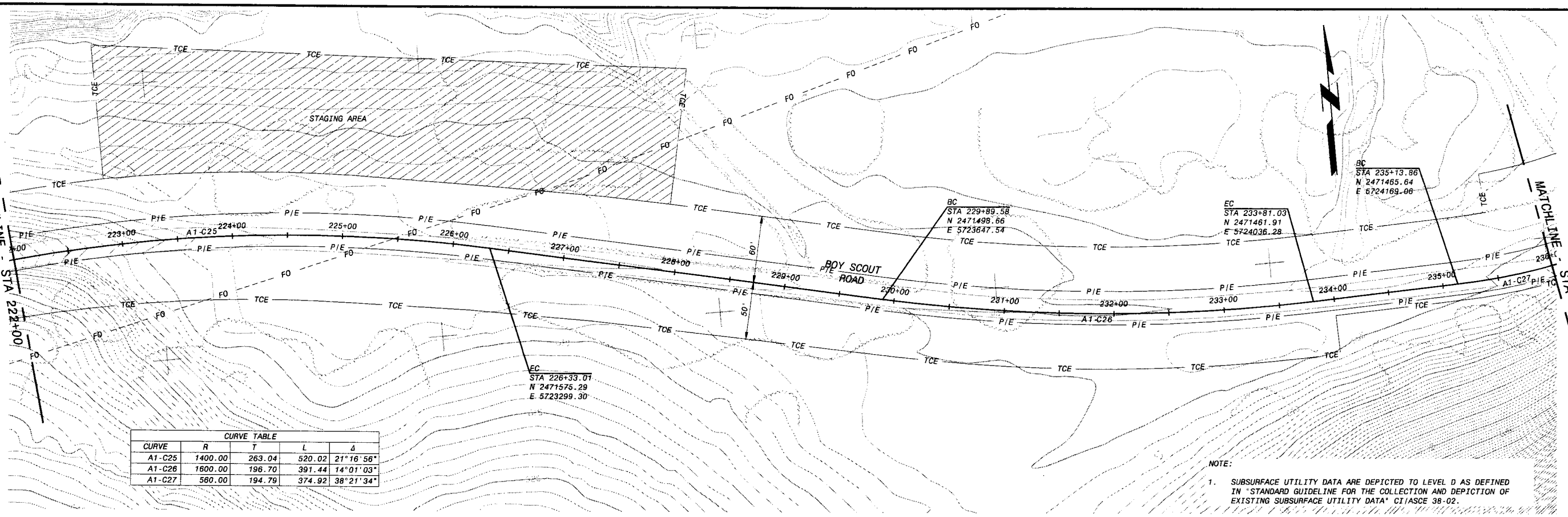
BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 208+00 TO 222+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	A1P-C118
SHEET OF	

FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C25	1400.00	263.04	520.02	21°16'56"
A1-C26	1600.00	196.70	391.44	14°01'03"
A1-C27	560.00	194.79	374.92	38°21'34"

PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

CYGNET ID: 137522-C-BP1-E00007NSF
WF: 16.1s (LMS Tech)
SAVED: BUL41266, 2/7/2006 3:38:22 PM
PLOTTED: 2/10/2006 12:29:31 PM, Batch Plot
USER: RCC10764

XREF1:BP1-C_HAL001.dwg
XREF2:BP1-C-UTIL01.dwg
XREF3:BP1-C-VAL001.dwg
XREF4:BP1-C-CHTY-PARC.dwg
XREF5:C-TOPO04.dwg
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061533 CIVIL STATE OF CALIFORNIA

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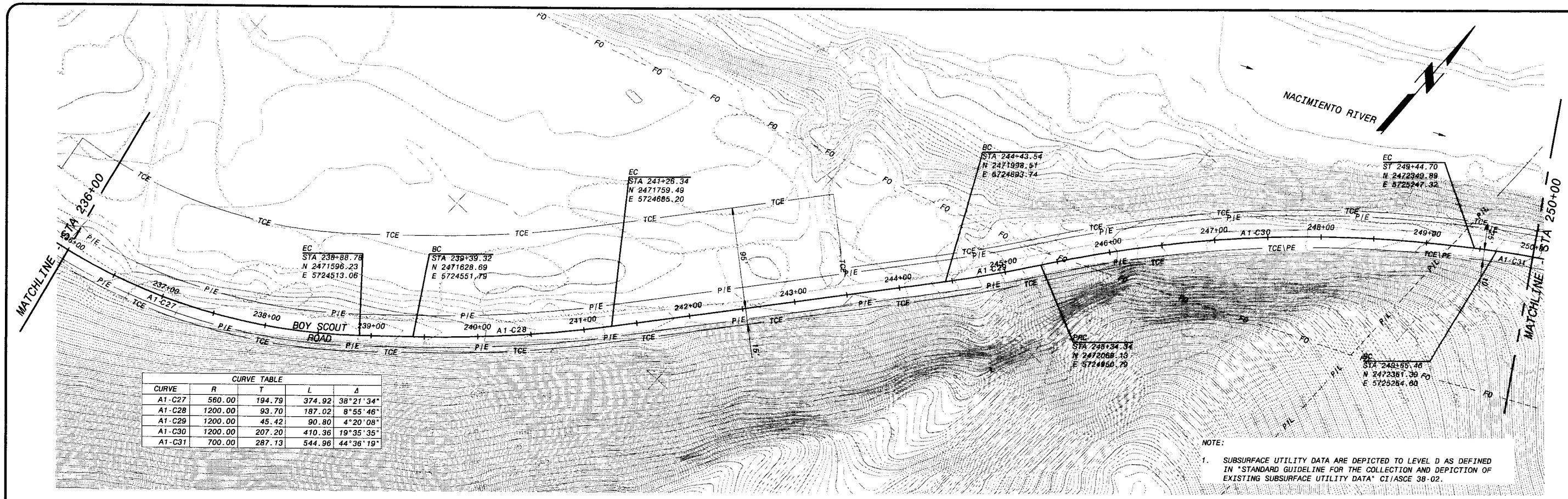
NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 222+00 TO 236+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/08
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	A1P-C119
SHEET OF	

FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C27	560.00	194.79	374.92	38°21'34"
A1-C28	1200.00	93.70	187.02	8°55'46"
A1-C29	1200.00	45.42	90.80	4°20'08"
A1-C30	1200.00	207.20	410.36	19°35'35"
A1-C31	700.00	287.13	544.96	44°36'19"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.

PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP

REVISIONS AND RECORD OF ISSUE | DATE

CYGNET ID: 137522-C-BP1-E000076DG
WF: 16.1a (LMS Tech)
SAVED: BUL41266, 2/7/2006 3:39:02 PM
PLOTTED: 2/10/2006 12:30:17 PM, Batch Plot
USER: mcc-10764

XREF1: BP1-C-VALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOPO05.dwg
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER DAVID MICHAEL MIDDLETON No. C061533 CIVIL STATE OF CALIFORNIA

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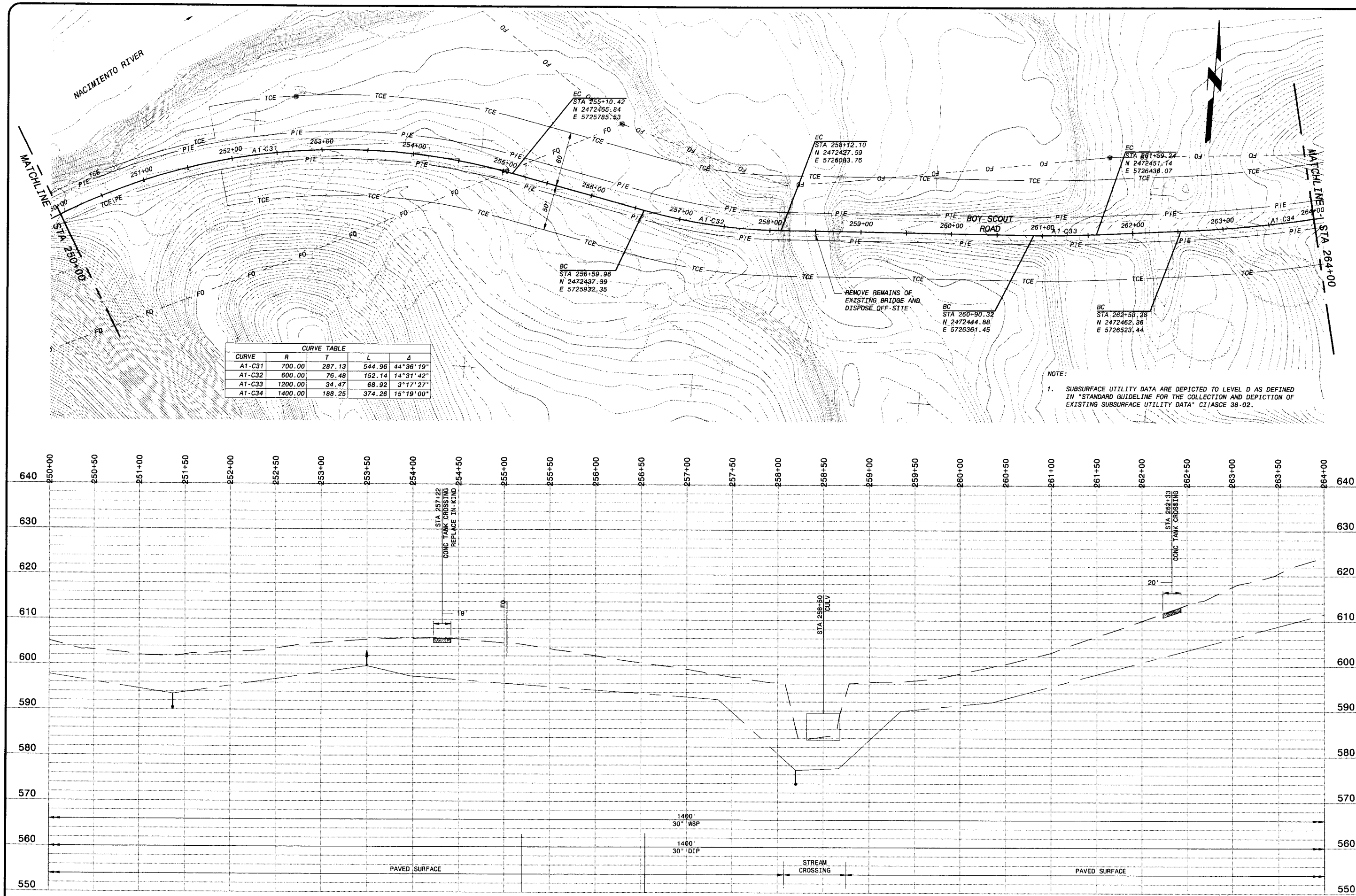
BOYLE
ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 236+00 TO 250+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	A1P-C120
SHEET OF	

FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C31	700.00	287.13	544.96	44°36'19"
A1-C32	600.00	76.48	152.14	14°31'42"
A1-C33	1200.00	34.47	68.92	3°17'27"
A1-C34	1400.00	188.25	374.26	15°19'00"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.

PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

CYGNET ID: 137522-C-BP1-E00007N3H
WF: 16.1s (LMS Tech)
SAVED: BUL41266, 2/7/2006 3:39:52 PM
PLOTTED: 2/10/2006 12:31:04 PM, Batch Plot
USER: mcc10764
DWG VER: 1.3
XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOP005.dwg

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061533 Exp. CIVIL STATE OF CALIFORNIA

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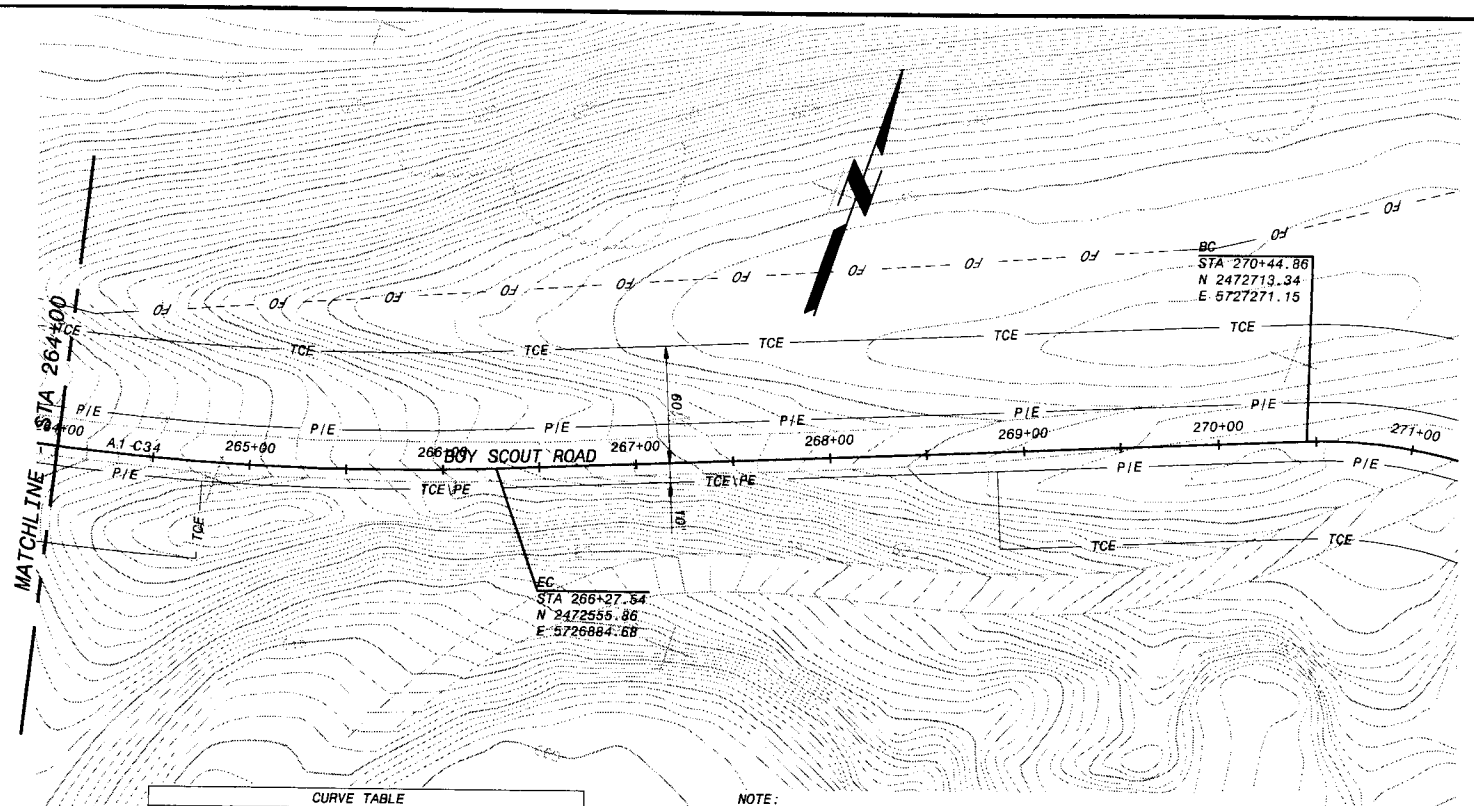
BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 250+00 TO 264+00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06
BV PROJECT NO. 137522
NWP PROJECT NO. 3000187.08
SPEC 01
A1P-C121
SHEET OF

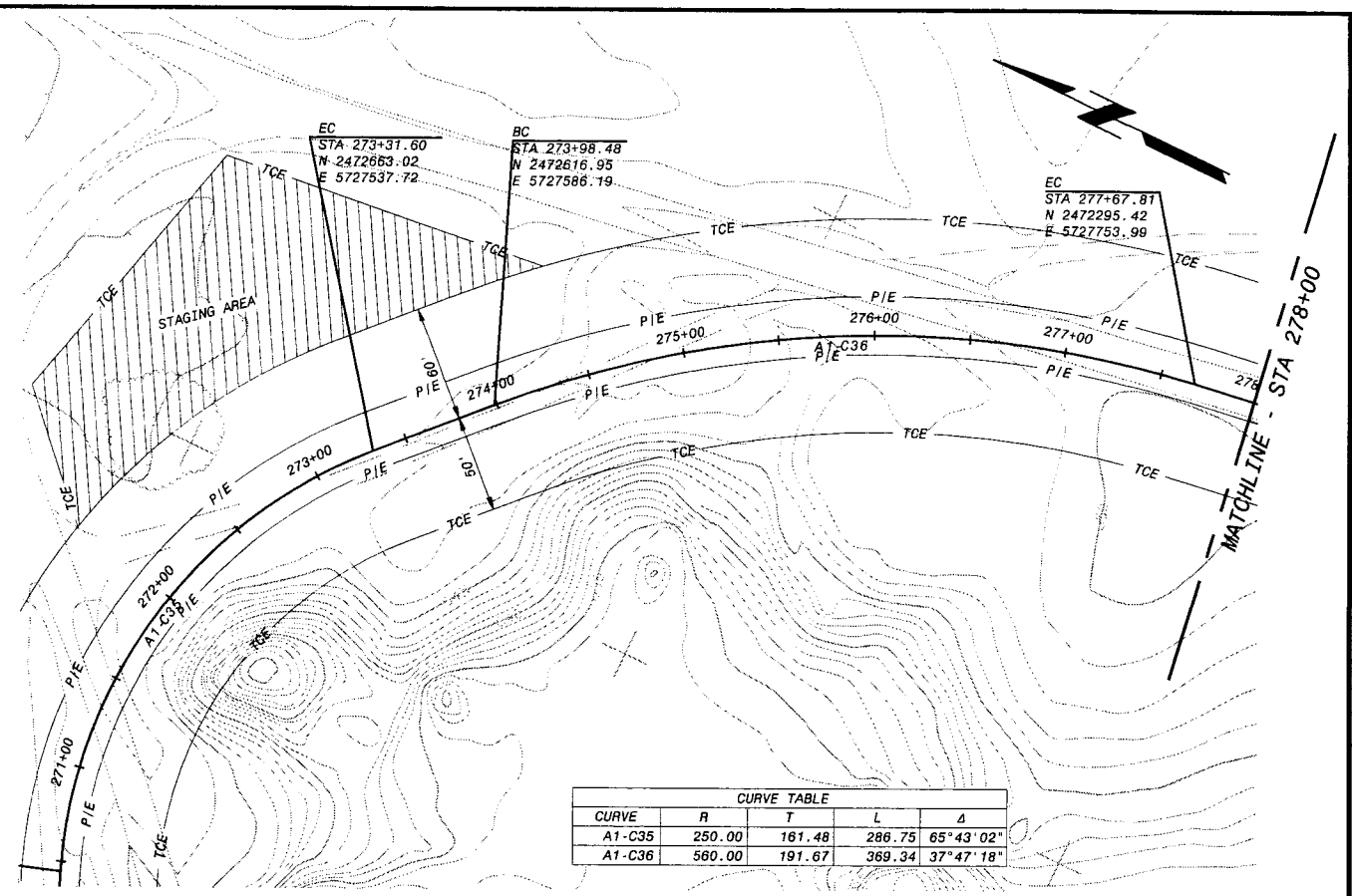
FD137522
D137522



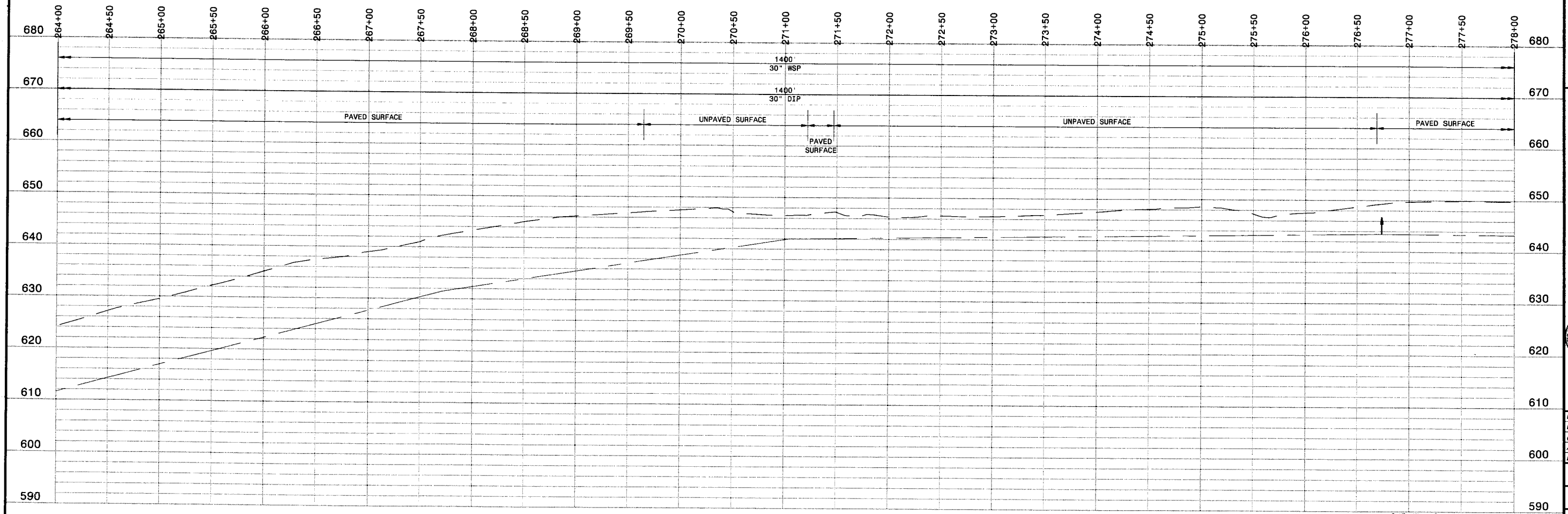
CURVE TABLE				
CURVE	R	T	L	Δ
A1-C34	1400.00	188.25	374.26	15°19'00"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C35	250.00	161.48	286.75	65°43'02"
A1-C36	560.00	191.67	369.34	37°47'18"



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely.
1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

CYGNET ID: 137522-C-BP1-E00007N3J
WF: 16.1s (LMS Tech)
SAVED: BUL41266, 2/7/2006 3:41:00 PM
PLOTTED: 2/10/2006 12:31:53 PM, Batch Plot
USER: mcc10764
XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOPO05.dwg
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. MIDDLETON
No. C061533
Exp. CIVIL
STATE OF CALIFORNIA

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BOYLE ENGINEERING CORPORATION

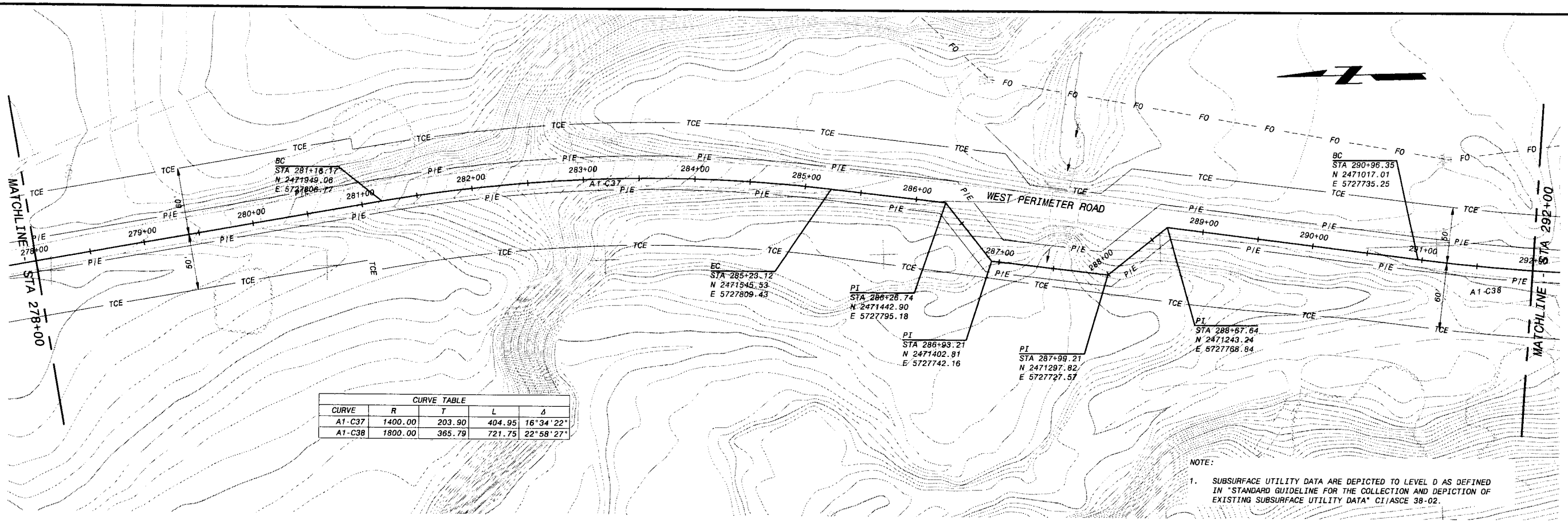
NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 264+00 TO 278+00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06

BV PROJECT NO. 137522
NWP PROJECT NO. 3000187.08
SPEC 01
A1P-C122
SHEET OF

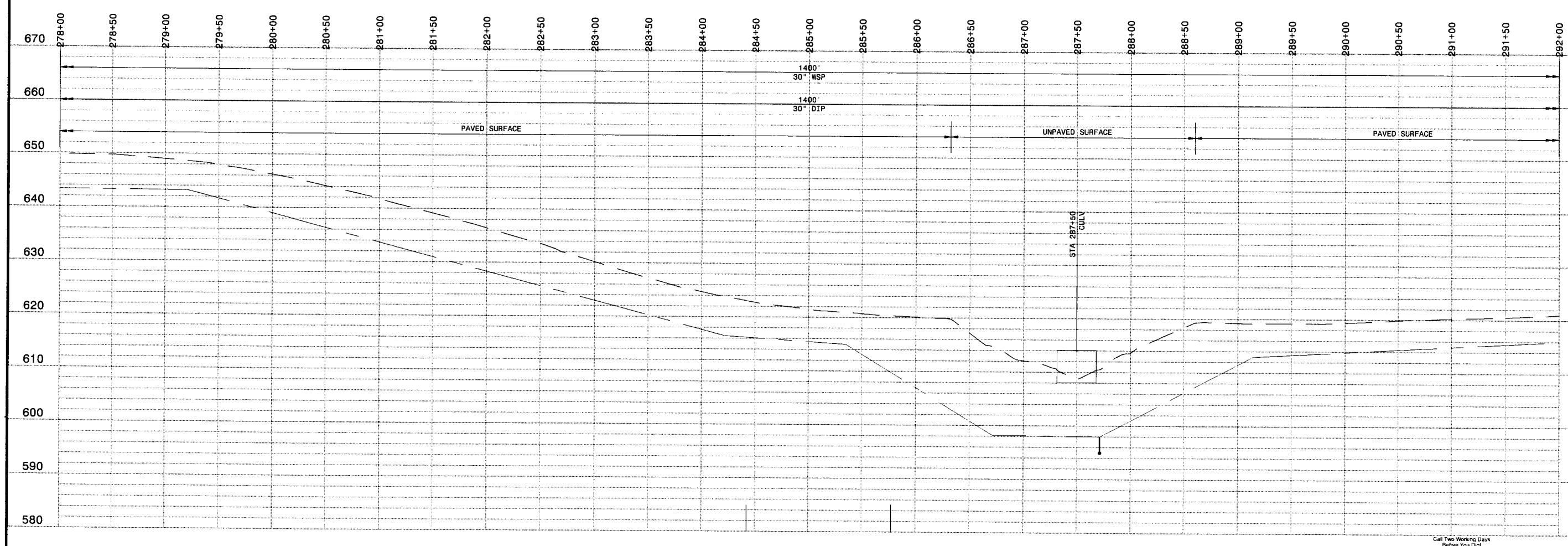
FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C37	1400.00	203.90	404.95	16°34'22"
A1-C38	1800.00	365.79	721.75	22°58'27"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

CYDNET ID: 137522-C BP1-E00007NSK
WF: 16.1$ (LMS Tech)
SAVED: BULK1266, 2/7/2006 3:41:48 PM
PLOTTED: 2/10/2006 12:32:40 PM, Batch Plot
USER: RDC10764
XREF1:BP1-C-HALN01.dwg
XREF2:BP1-C-UTIL01.dwg
XREF3:BP1-C-VALN01.dwg
XREF4:BP1-C-CNTY-PARC.dwg
XREF5:C-TOPO03.dwg
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061533 CIVIL STATE OF CALIFORNIA

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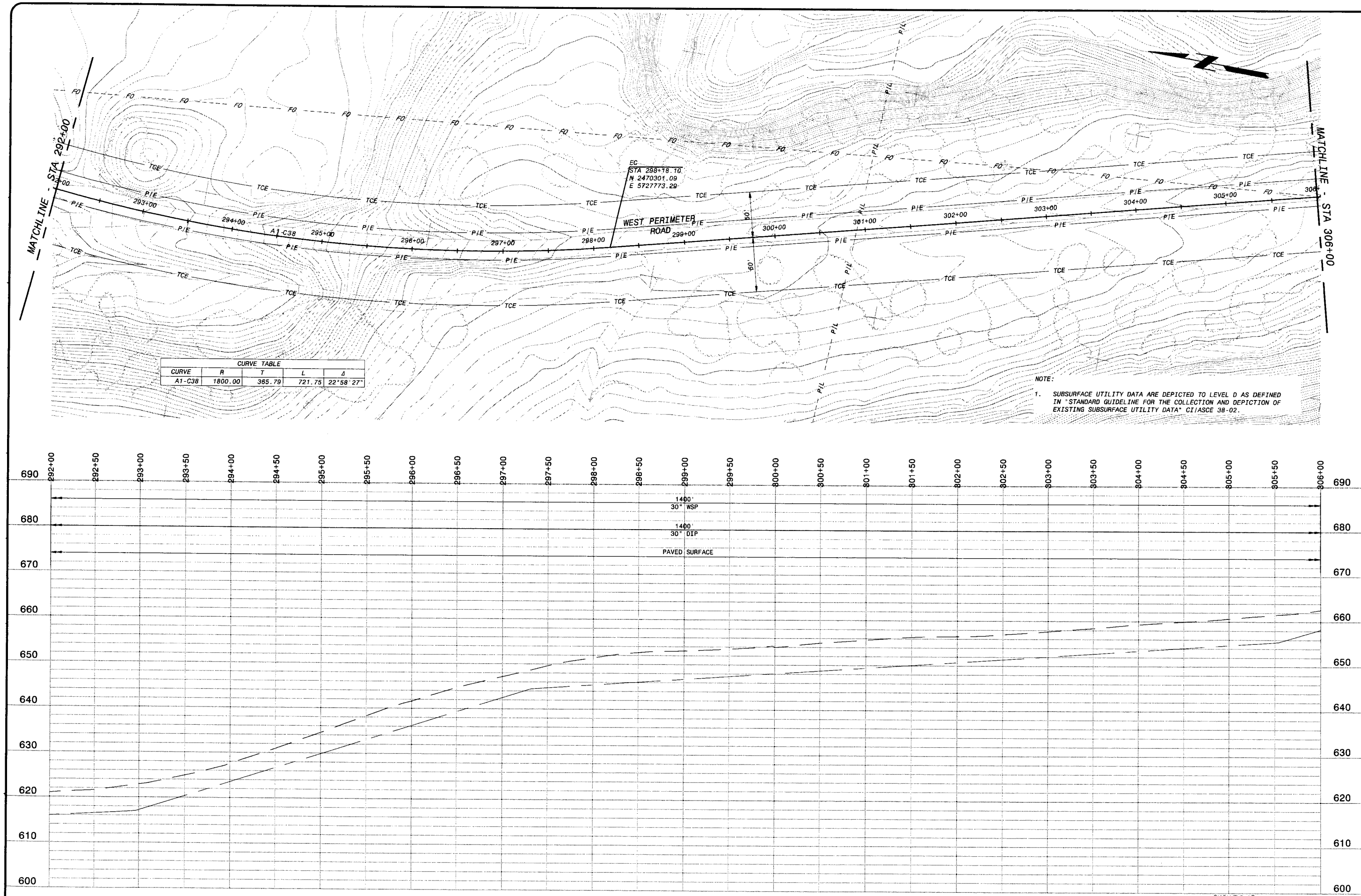
BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 278+00 TO 292+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	A1P-C123
SHEET OF	

FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C38	1800.00	365.79	721.75	22°58'27"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.

PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely.
1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

CYGNET ID: 137522-C-BP1-E00007N3L
WF: 16.1s (LMS Tech)
SAVED: BUL41286, 2/7/2006 3:42:42 PM
PLOTTED: 2/10/2006 12:33:24 PM, Batch Plot
USER: mcc10764
DWG VER: 1.3

XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOP005.dwg

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. MIDDLETON
No. C061533
Exp. CIVIL
STATE OF CALIFORNIA

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NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 292+00 TO 306+00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06

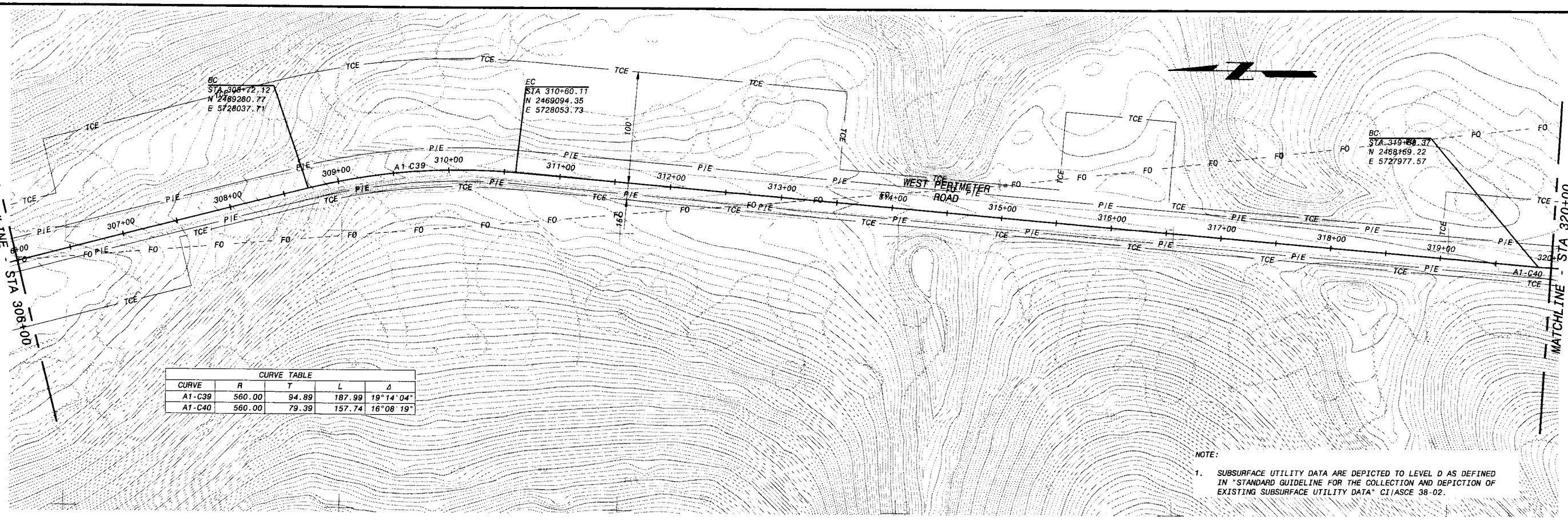
BV PROJECT NO.
137522

NWP PROJECT NO.
3000187.08

SPEC
01

A1P-C124
SHEET
OF

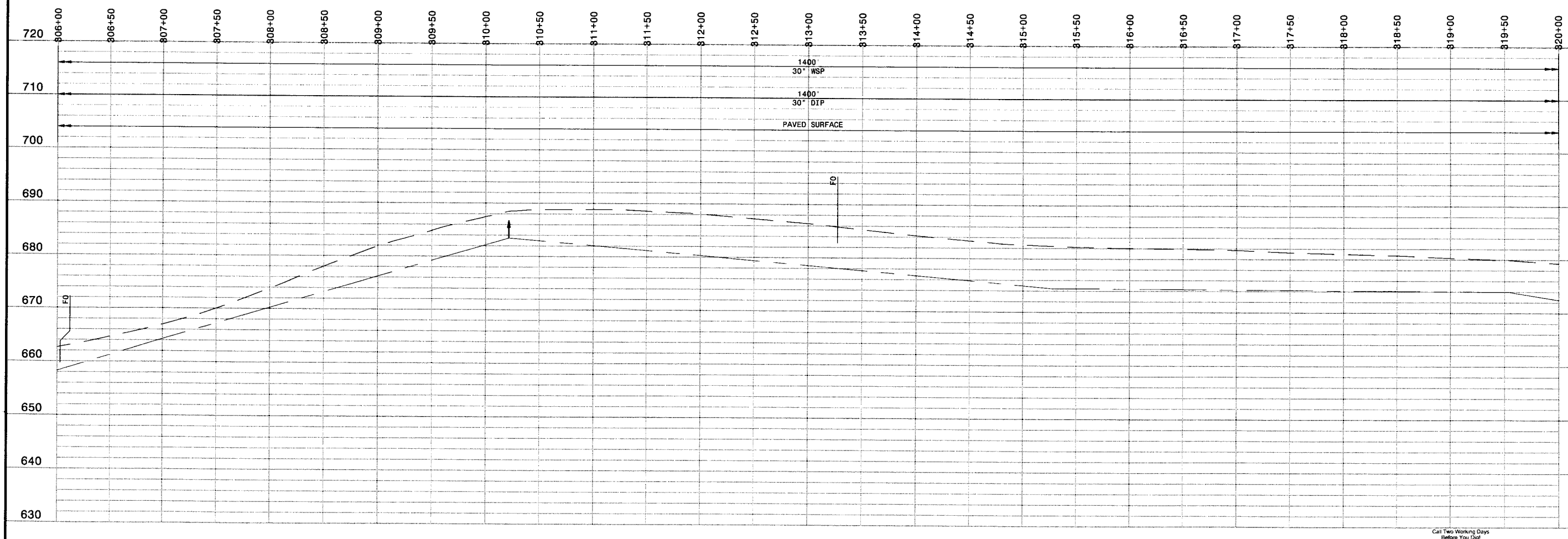
FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C39	560.00	94.89	187.99	19°14'04"
A1-C40	560.00	79.39	157.74	16°08'19"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely.
1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

CYGNET ID: 137522-C-BP1-E000007KNM
WF: 16.1s (LMS Tech)
SAVED: BUL41266, 2/7/2006 3:43:35 PM
PLOTTED: 2/10/2006 12:34:15 PM, Batch Plot
USER: mcc10764

XREF1:BP1-C-VALN01.dwg
XREF2:BP1-C-UTIL01.dwg
XREF3:BP1-C-VALN01.dwg
XREF4:BP1-C-CNTY-PARC.dwg
XREF5:C-TOPO05.dwg
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No C061533 CIVIL STATE OF CALIFORNIA

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BOYLE
ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 306+00 TO 320+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	A1P-C125
SHEET OF	

FD137522
D107522

CURVE TABLE				
CURVE	R	T	L	Δ
A1-C40	560.00	79.39	157.74	16°08'19"
A1-C41	560.00	123.15	242.43	24°48'15"

MATCHLINE STA 320+00

EC STA 321+46.11 N 2469012.28 E 5727986.80

A1-C40

BC STA 324+24.37 N 2467739.53 E 5728041.96

EC STA 326+66.81 N 2467519.50 E 5728139.16

A1-C41

PI STA 328+69.64 N 2467355.90 E 5728259.06

PI STA 329+40.22 N 2467285.61 E 5728252.88

PI STA 330+45.96 N 2467204.39 E 5728320.37

PI STA 331+28.61 N 2467196.91 E 5728402.68

MATCHLINE STA 334+00

WEST PERIMETER ROAD

STAGING AREA

TCE

P/E

FO

50'

25'

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.

1400' 30" WSP

1400' 30" DIP

PAVED SURFACE

UNPAVED SURFACE

PAVED SURFACE

STA 330+00 CULV

PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig! Dig Safely. 1-800-227-2600

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE
					CYGNET ID: 137522-C-BP1-EQ0007MJM
					WF: 16.1s (LMS Tech)
					SAVED: BUL41285, 2/7/2006 3:44:23 PM
					PLOTTED: 2/10/2006 12:35:02 PM, Batch Plot
					USER: mcc10764

XREF1:BP1-C-HALM01.dwg
XREF2:BP1-C-UTIL01.dwg
XREF3:BP1-C-VALM01.dwg
XREF4:BP1-C-CNTY-PARC.dwg
XREF5:C-TOPO06.dwg
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061533 CIVIL STATE OF CALIFORNIA

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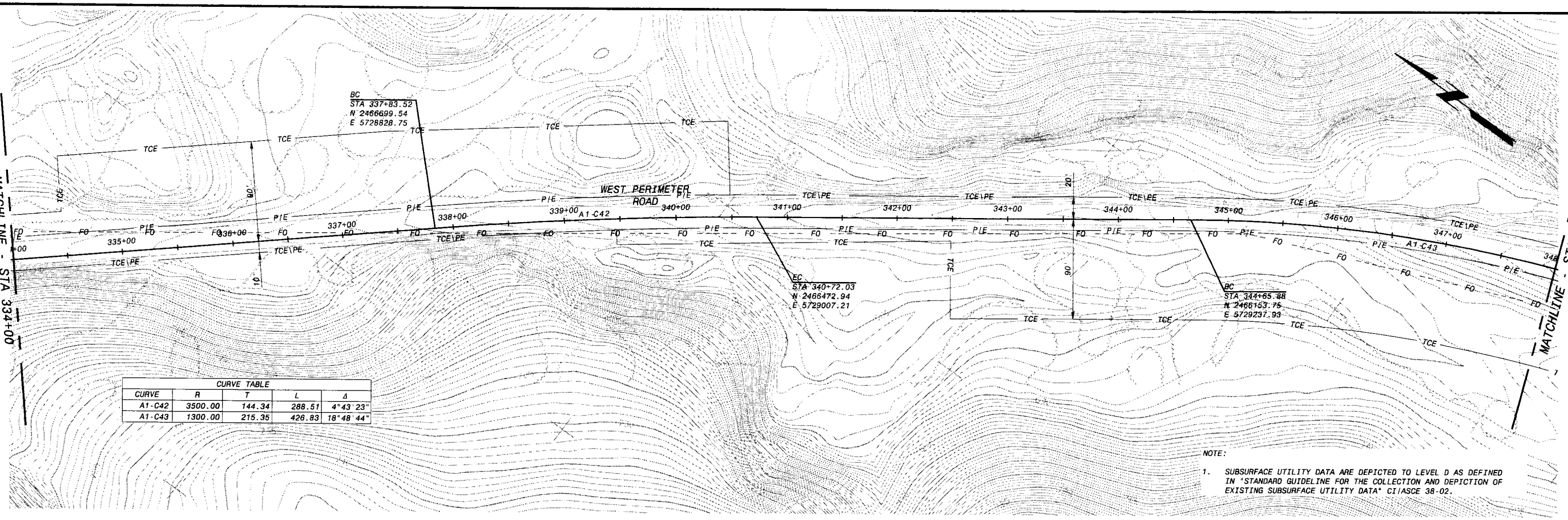
BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 320+00 TO 334+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	A1P-C126
SHEET OF	

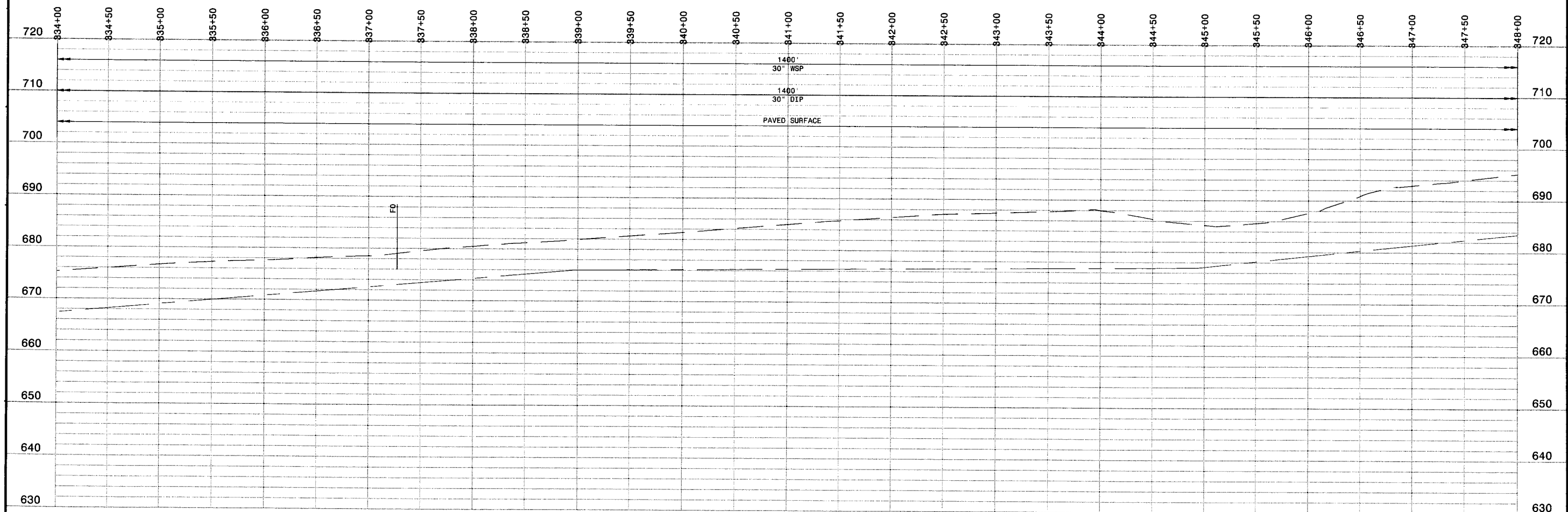
FD137522
DI137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C42	3500.00	144.34	288.51	4°43'23"
A1-C43	1300.00	215.35	426.83	18°48'44"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
DigSafely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	REVISIONS AND RECORD OF ISSUE	DATE
				XREF1:BP1-C-HALN01.dwg	CYGNET ID: 137522-C-BP1-E00007MXP
				XREF2:BP1-C-UTIL01.dwg	WF: 16.1s (LMS Tech)
				XREF3:BP1-C-VALN01.dwg	SAVED: BULA1266, 2/7/2006 3:45:08 PM
				XREF4:BP1-C-CNTY-PARC.dwg	PLOTTED: 2/10/2006 12:35:45 PM, Batch Plot
				XREF5:C-TOPO08.dwg	USER: mcc10764
				DWG VER: 1.3	

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061933 Exp. CIVIL STATE OF CALIFORNIA

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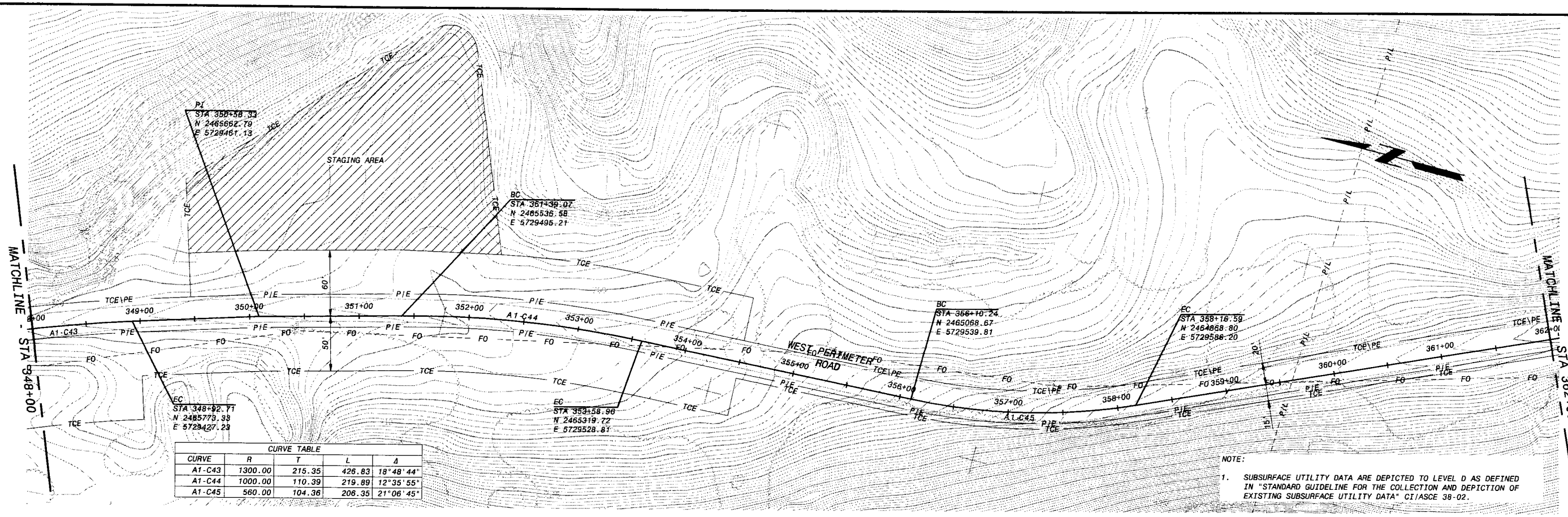
BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 334+00 TO 348+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	A1P-C127
SHEET OF	

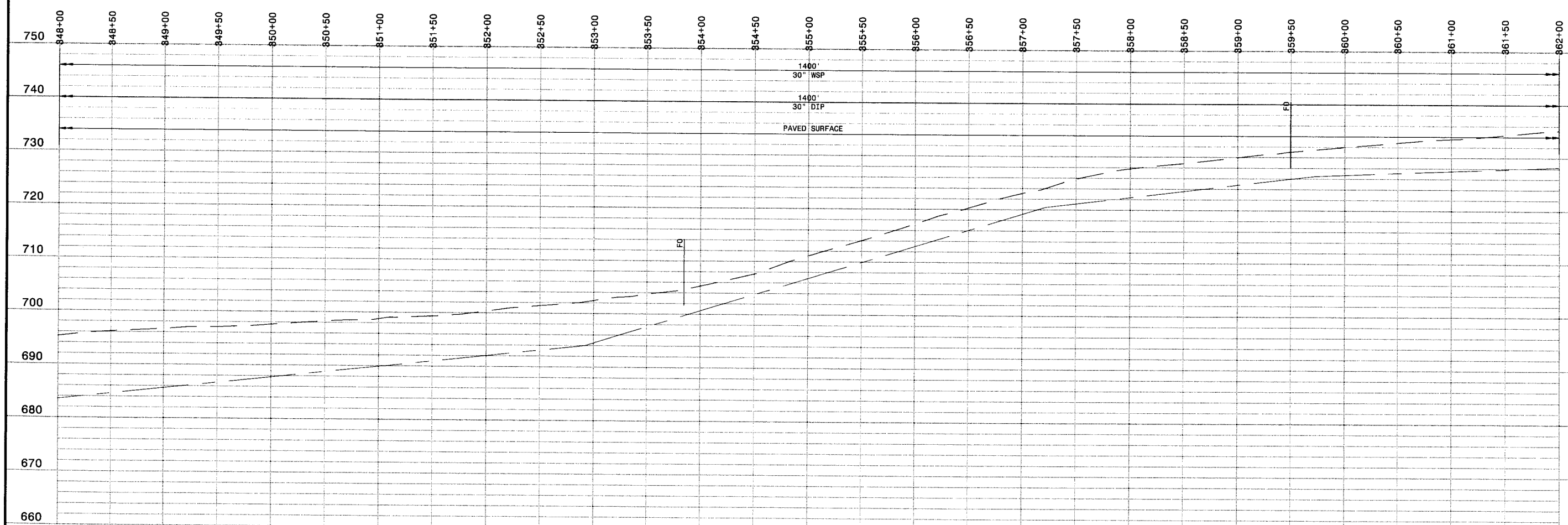
FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C43	1300.00	215.35	426.83	18°48'44"
A1-C44	1000.00	110.39	219.89	12°35'55"
A1-C45	560.00	104.36	206.35	21°06'45"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely.
1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

CYGNET ID: 137522-C-BP1-E00007N3Q
WF: 16.1s (LMS Tech)
SAVED: BUL41266, 2/7/2006 3:45:54 PM
PLOTTED: 2/10/2006 12:36:33 PM, Batch Plot
USER: mcc10764
DWG VER: 1.3
XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOP006.dwg

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. MIDDLETON
No. C061533
Exp. CIVIL
STATE OF CALIFORNIA

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BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 348+00 TO 362+00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06

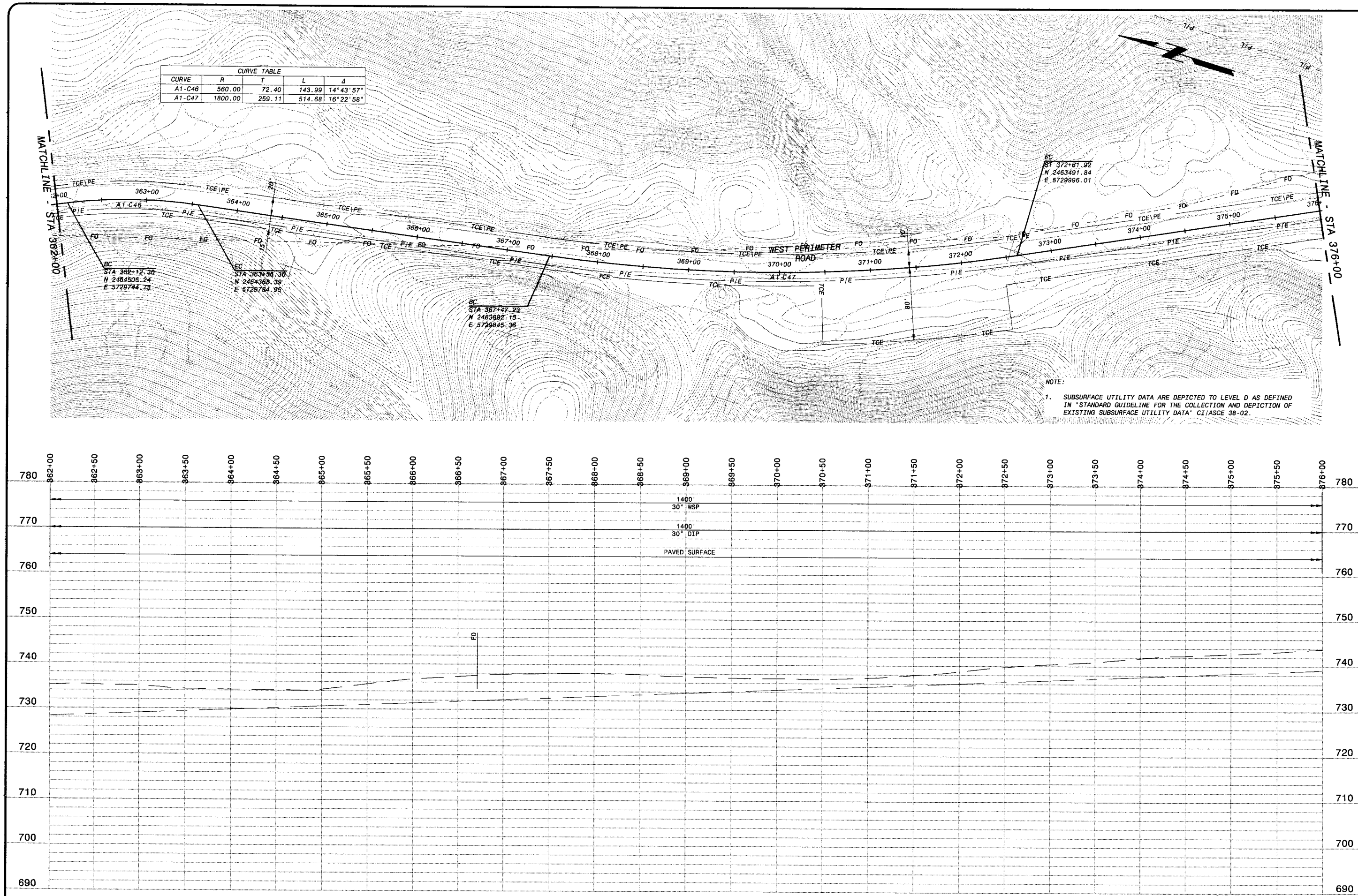
BV PROJECT NO.
137522

NWP PROJECT NO.
3000187.08

SPEC
01

A1P-C128
SHEET
OF

FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C46	560.00	72.40	143.99	14°43'57"
A1-C47	1800.00	259.11	514.68	16°22'58"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.

PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

CYGNET ID: 137522-C-BP1-E00007N82
WF: 1s (LMS Tech)
SAVED: MCC10764, 2/10/2006 9:41:02 AM
PLOTTED: 2/10/2006 12:38:21 PM, Batch Plot
USER: mcc10764
DWG VER: 1.3
XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOPO06.dwg

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061533 Exp. CIVIL STATE OF CALIFORNIA

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NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 362+00 TO 376.00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06
BV PROJECT NO. 137522
NWP PROJECT NO. 3000187.08
SPEC 01
A1P-C129
SHEET OF

FD137522
D137522

CURVE TABLE				
CURVE	R	T	L	Δ
A1-C48	2200.00	214.72	428.08	11°08'55"
A1-C49	800.00	52.28	104.42	7°28'42"

MATCHLINE - STA 376+00

MATCHLINE - STA 390+00

WATER POND

WEST PERIMETER ROAD

A1-C48

A1-C49

PT
STA 377+34.09
N 2463064.86
E 5730197.59

BC
STA 381+78.67
N 2462722.45
E 5730373.00

EC
STA 385+46.89
N 2462362.73
E 5730603.90

BC
STA 387+66.53
N 2462190.36
E 5730739.95

EC
STA 388+70.94
N 2462112.84
E 5730809.79

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.

1400'
30" WSP

1400'
30" DIP

PAVED SURFACE

PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely.
1-800-227-2600

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE
					XREF1:BP1-C-HALN01.dwg
					XREF2:BP1-C-UTIL01.dwg
					XREF3:BP1-C-VALN01.dwg
					XREF4:BP1-C-CNTY-PARC.dwg
					XREF5:C-TOPO02.dwg

CYGNET ID: 137522-C-BP1-E00001N83
WP: 16.1S (LMS Tech)
SAVED: MCC10764, 2/10/2006 9:40:52 AM
PLOTTED: 2/10/2006 12:39:09 PM, Balch Plot
USER: Rcc10764
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061533 CIVIL STATE OF CALIFORNIA

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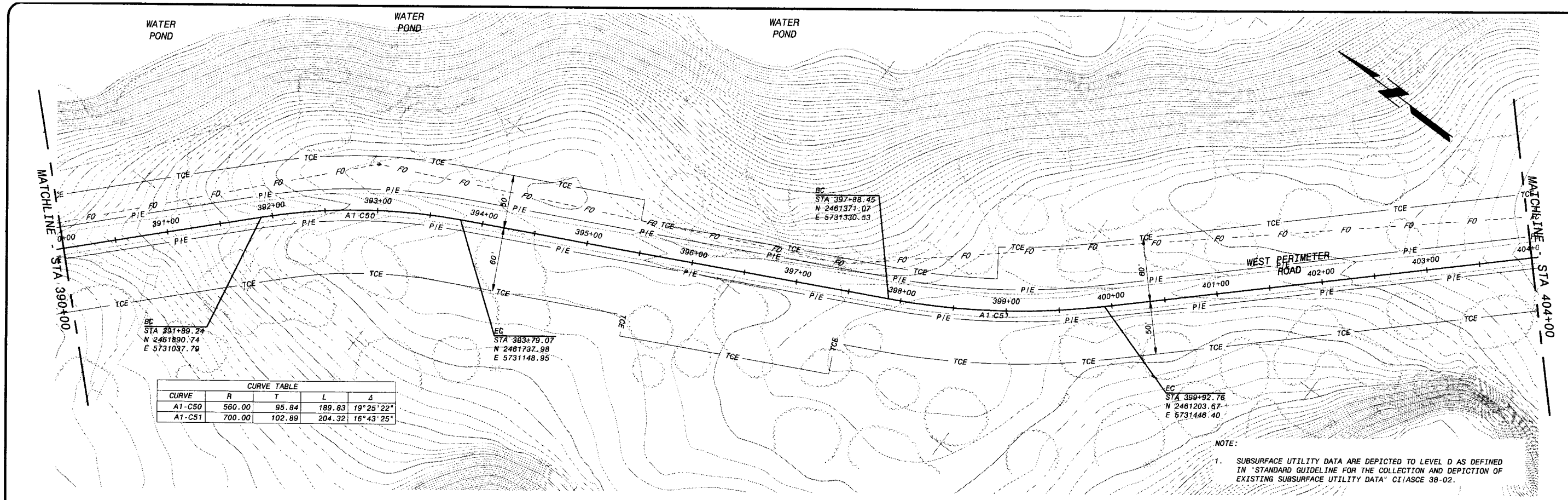
NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 376+00 TO 390+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	A1P-C130
SHEET OF	

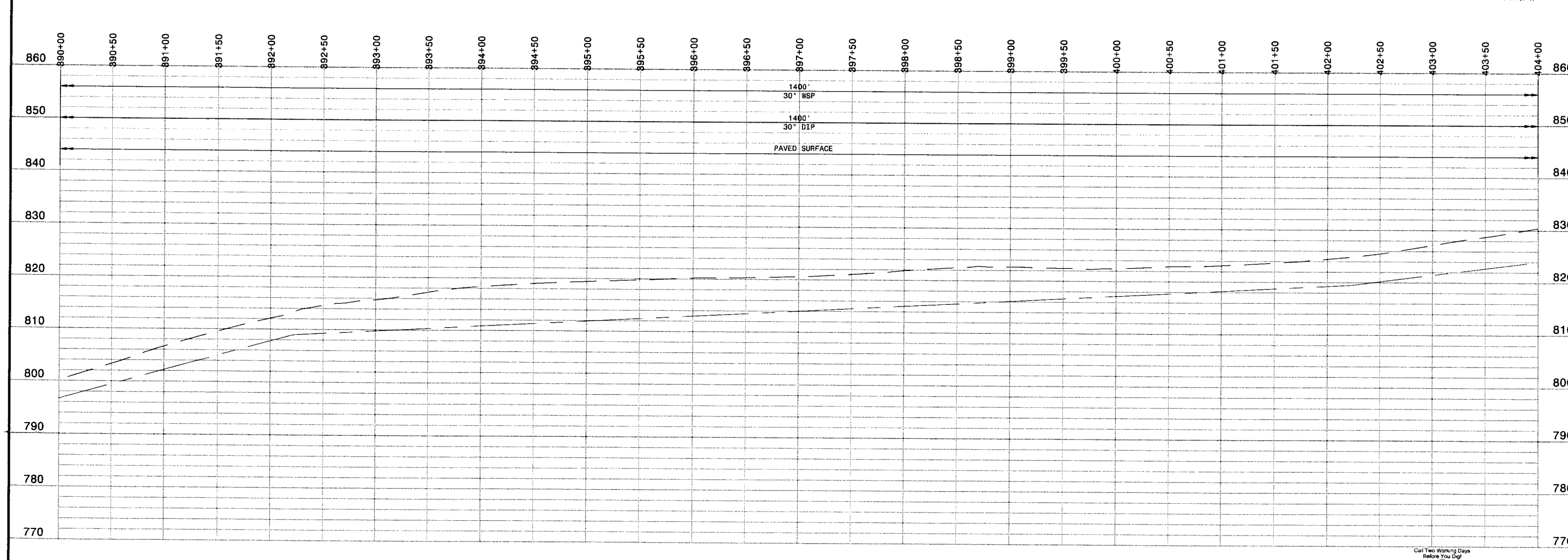
FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C50	560.00	95.84	189.83	19°25'22"
A1-C51	700.00	102.89	204.32	16°43'25"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely
1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	REVISIONS AND RECORD OF ISSUE	DATE
				XREF1:BP1-C-HALN01.dwg	CYGNET ID: 137522-C-BP1-E000007N84
				XREF2:BP1-C_UTIL01.dwg	WF: 16.1s (LMS Tech)
				XREF3:BP1-C-VALN01.dwg	SAVED: MCC10764, 2/10/2006 9:40:37 AM
				XREF4:BP1-C-CNTY_PARC.dwg	PLOTTED: 2/10/2006 12:39:52 PM, Batch Plot
				XREF5:C-TOPO07.dwg	USER: mcc10764
				DWG VER: 1.3	

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061533 CIVIL STATE OF CALIFORNIA

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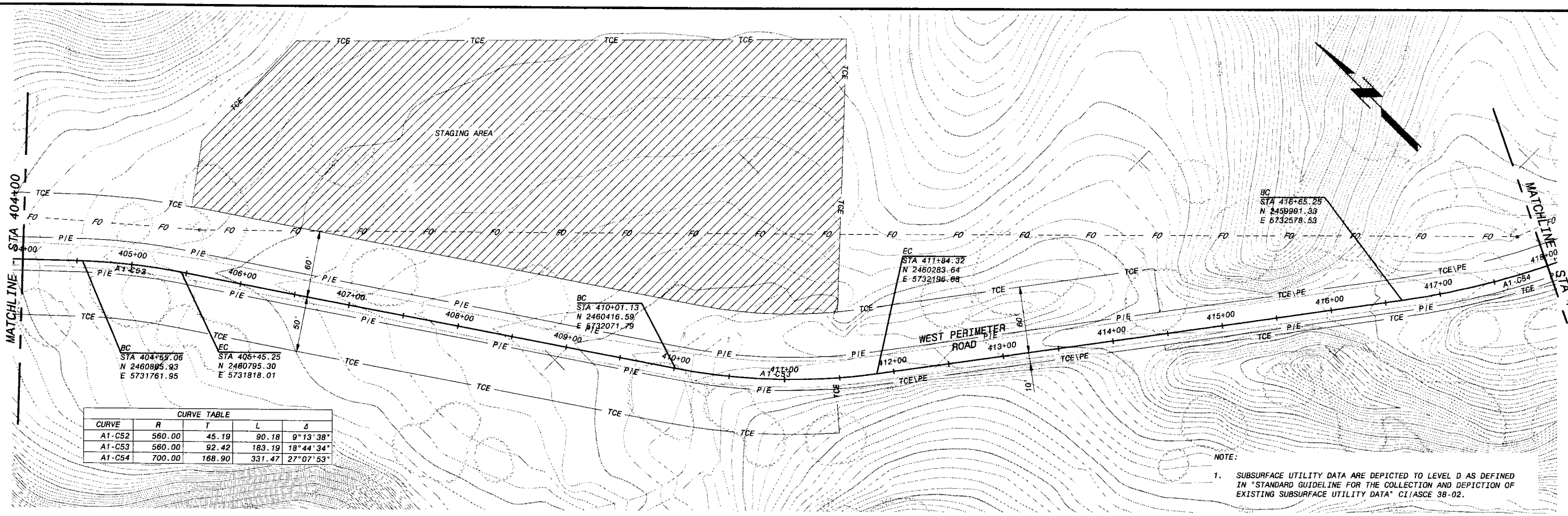
NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 390+TO 404+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	A1P-C131
SHEET OF	

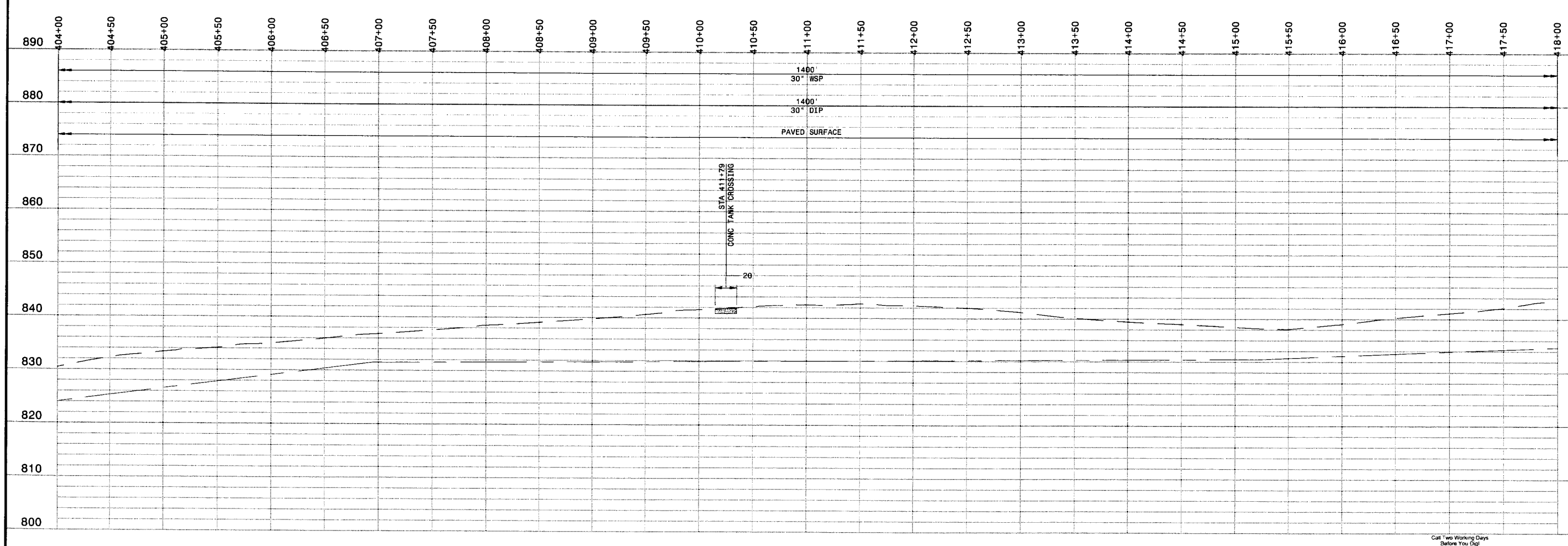
D137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C52	560.00	45.19	90.18	9°13'38"
A1-C53	560.00	92.42	183.19	18°44'34"
A1-C54	700.00	168.90	331.47	27°07'53"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	REVISIONS AND RECORD OF ISSUE	DATE

CYGNET ID: 137522-C-BP1-E000078N5
WF: 16.1s [LMS Tech]
SAVED: MCC10764, 2/10/2006 9:40:27 AM
PLOTTED: 2/10/2006 12:40:41 PM, Balch Plot
USER: MCC10764

XREF1:BP1-C-HALN01.dwg
XREF2:BP1-C-UTIL01.dwg
XREF3:BP1-C-VALN01.dwg
XREF4:BP1-C-CNTY-PARC.dwg
XREF5:C-TOPO09.dwg
DWG VER: 1.3

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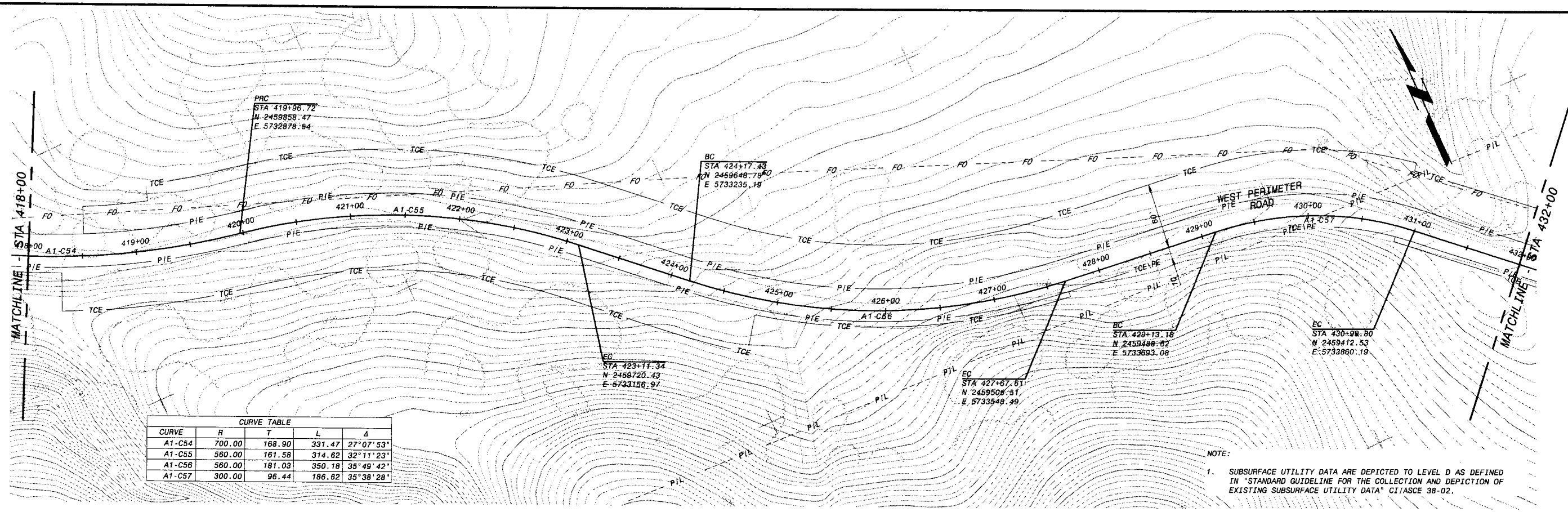
BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 404+00 TO 418+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	A1P-C132
SHEET OF	

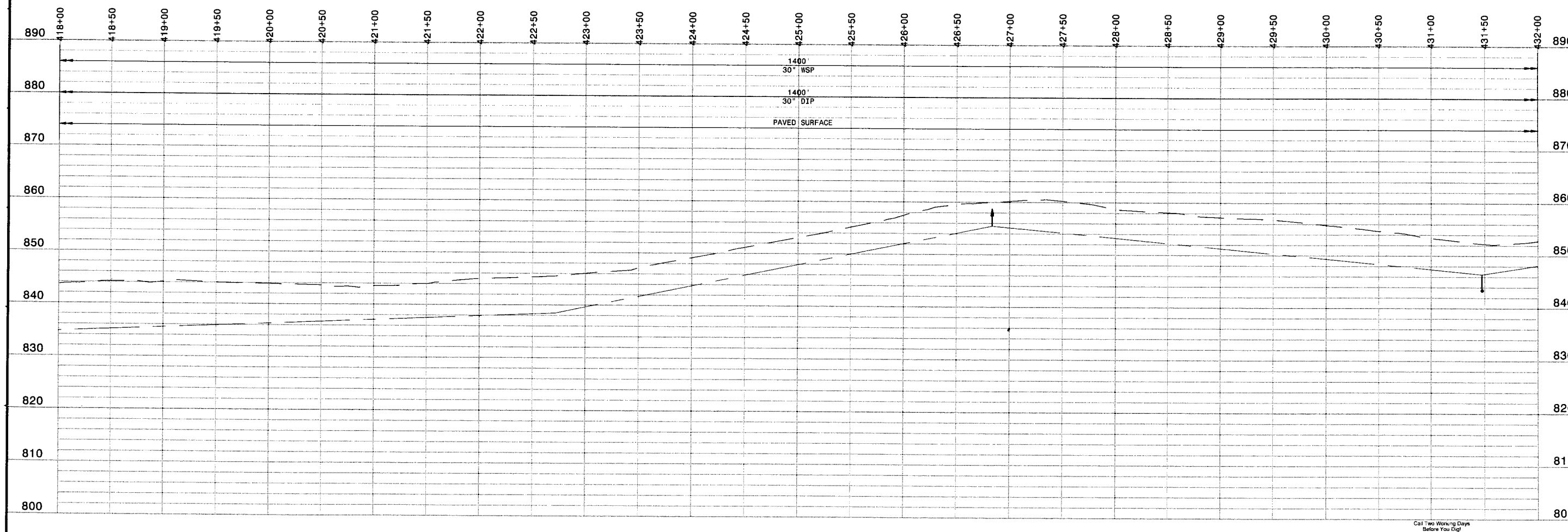
FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C54	700.00	168.90	331.47	27°07'53"
A1-C55	560.00	161.58	314.62	32°11'23"
A1-C56	560.00	181.03	350.18	35°49'42"
A1-C57	300.00	96.44	186.62	35°38'28"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

CYGNET ID: 137522-C-BP1-E00007N86
WF: 16.1s (LMS Tech)
SAVED: MCC10764, 2/10/2006 9:40:17 AM
PLOTTED: 2/10/2006 12:41:22 PM, Batch Plot
USER: mcc10764

XREF1:BP1-C-HALN01.dwg
XREF2:BP1-C-UTIL01.dwg
XREF3:BP1-C-VALN01.dwg
XREF4:BP1-C-CINT-PARC.dwg
XREF5:C-TOPO08.dwg
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER MICHAEL C. MIDDLETON No. C061533 Exp. CIVIL STATE OF CALIFORNIA

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BOYLE
ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 418+00 TO 432+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
SHEET	A1P-C133
OF	

FD137522
D137522

MATCHLINE STA 432+00

MATCHLINE STA 446+00

WEST PERIMETER ROAD

CURVE TABLE				
CURVE	R	T	L	Δ
A1-C58	1200.00	167.71	333.25	15°54'42"
A1-C59	560.00	16.34	32.68	3°20'36"

BC
STA 437+29.70
N 2458988.57
E 5734326.07

EC
STA 440+62.95
N 2456801.16
E 5734600.34

BC
STA 442+99.17
N 2458896.16
E 5734811.93

EC
STA 443+31.84
N 2458682.50
E 5734841.61

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.

1400'
30" WSP

1400'
30" DIP

PAVED SURFACE

PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE
					XREF1:BP1-C-HALN01.dwg
					XREF2:BP1-C-UTIL01.dwg
					XREF3:BP1-C-VALN01.dwg
					XREF4:BP1-C-CNTY-PARC.dwg
					XREF5:C-TOPO08.dwg

CYGNET ID: 137522-C-BP1-E00007N87
MF: 16.1s (LMS Tech)
SAVED: MCC10764, 2/10/2006 9:40:12 AM
PLOTTED: 2/10/2006 12:42:02 PM, Batch Plot
USER: mcc10764
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER · MICHAEL D. MIDDLETON · No. C061531 · CIVIL · STATE OF CALIFORNIA

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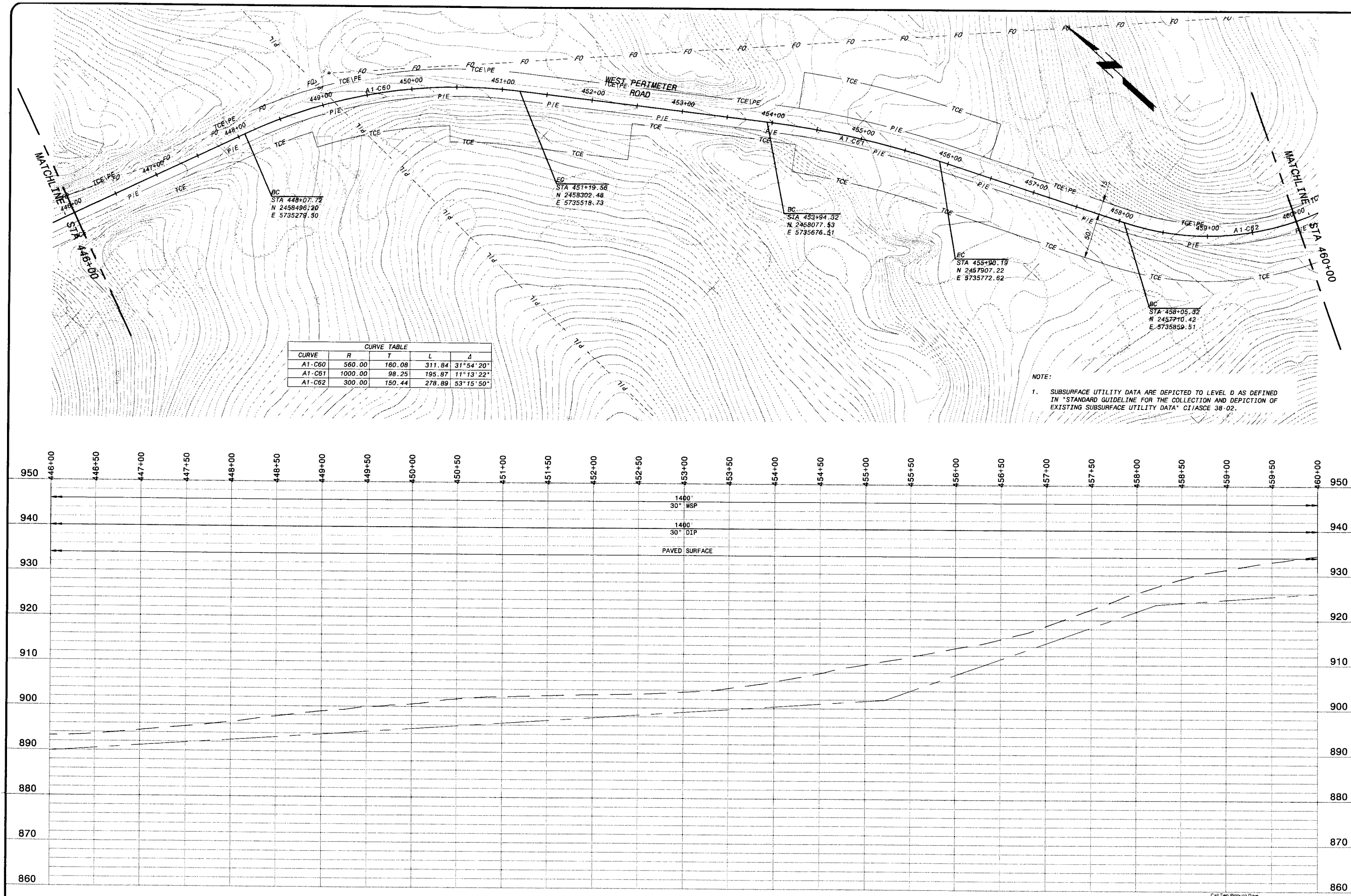
BOYLE
ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 432+00 TO 446+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	A1P-C134
SHEET OF	

FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C60	560.00	160.08	311.84	31°54'20"
A1-C61	1000.00	98.25	195.87	11°13'22"
A1-C62	300.00	150.44	278.89	53°15'50"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.

PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

CYGNET ID: 137522-C-BP1-E00007N88
WF: 16.1s (LMS Tech)
SAVED: MCC10764, 2/10/2006 9:40:06 AM
PLOTTED: 2/10/2006 12:42:49 PM, Batch Plot
USER: mcc10764
DWG VER: 1.3
XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOPO08.dwg

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061533 Exp. CIVIL STATE OF CALIFORNIA

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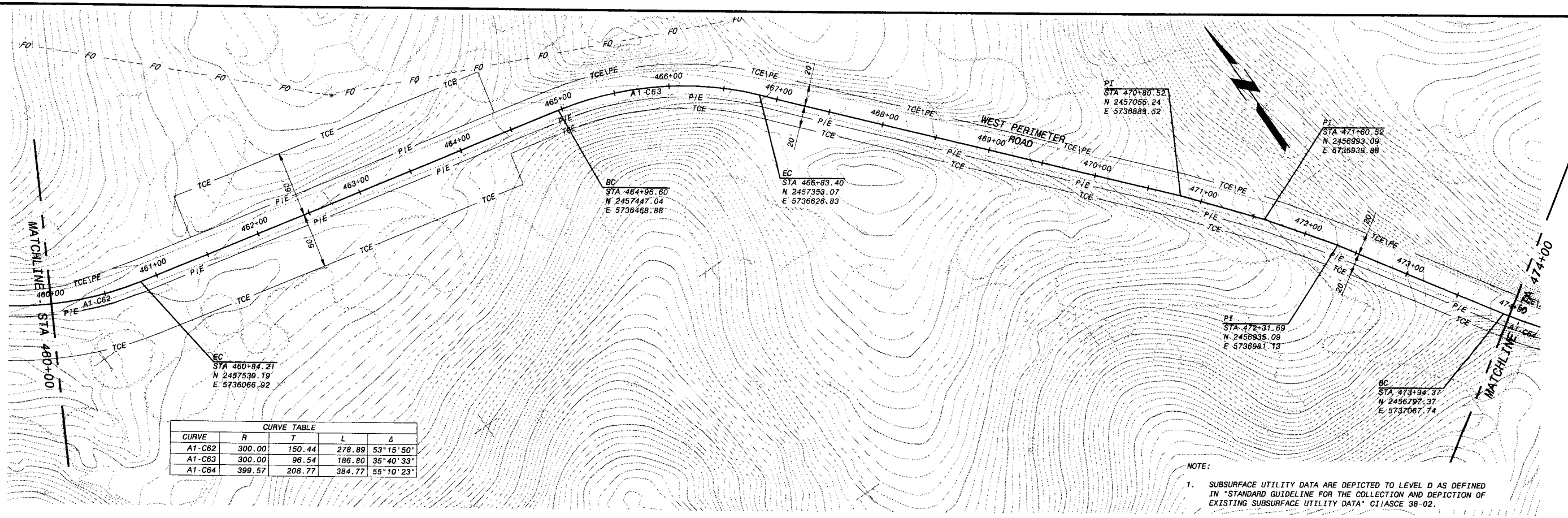
BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 446+00 TO 460+00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06
BV PROJECT NO. 137522
NWP PROJECT NO. 3000187.08
SPEC 01
A1P-C135
SHEET OF

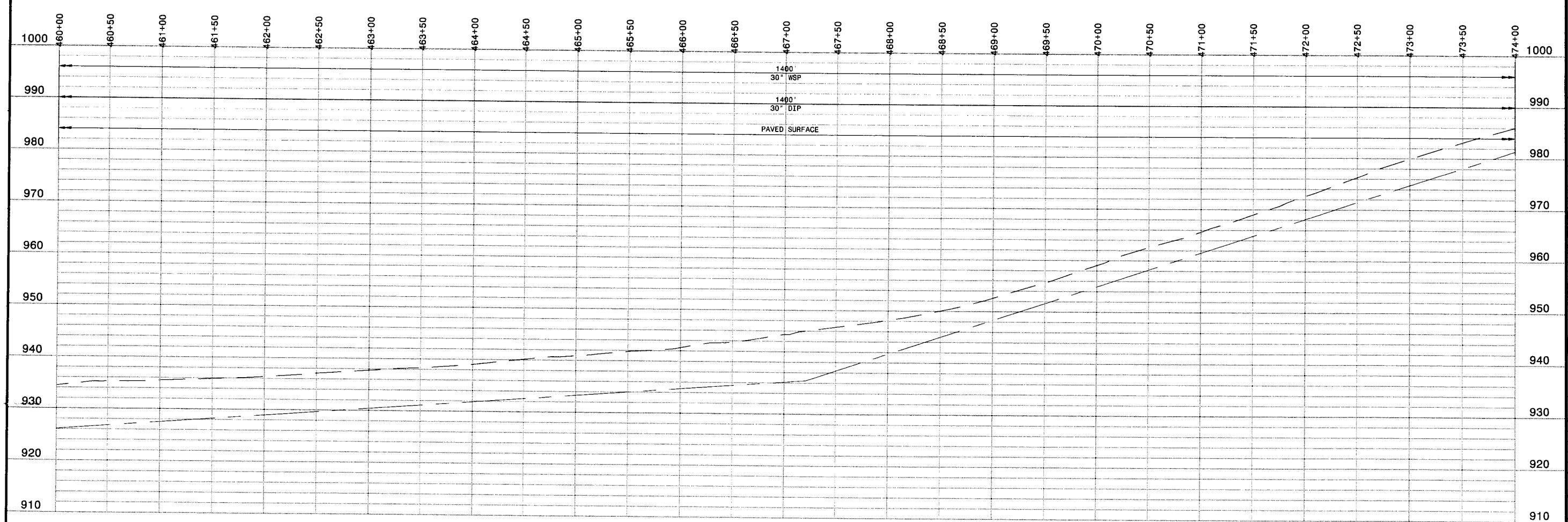
FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C62	300.00	150.44	278.89	53°15'50"
A1-C63	300.00	96.54	186.80	35°40'33"
A1-C64	399.57	208.77	384.77	55°10'23"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

CYGNET ID: 137522-C-BP1-E00007N89
WF: 16.1s (LMS Tech)
SAVED: MCC10764, 2/10/2006 9:40:00 AM
PLOTTED: 2/10/2006 12:43:30 PM, Batch Plot
USER: mcc10764
XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOPO09.dwg
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061533 Exp. CIVIL STATE OF CALIFORNIA

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ENERGY WATER INFORMATION GOVERNMENT

BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 460+00 TO 474+00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06

BV PROJECT NO. 137522
NWP PROJECT NO. 3000187.08
SPEC 01

A1P-C136
SHEET
OF

FD137522
D137522

CURVE TABLE				
CURVE	R	T	L	Δ
A1-C64	399.57	208.77	384.77	55°10'23"
A1-C65	2000.00	76.26	152.46	4°22'03"

MATCHLINE - STA 474+00

MATCHLINE - STA 488+00

EC
STA 477+79.14
N 2456611.12
E 5737387.53

BC
STA 483+24.37
N 2456586.79
E 5737932.17

EC
STA 484+76.83
N 2456584.52
E 5738084.58

WEST PERIMETER ROAD

A1-C64

A1-C65

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.

1400'
30" WSP

1400'
30" DIP

PAVED SURFACE

PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely.
1-800-227-2600

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	REVISIONS AND RECORD OF ISSUE	DATE

CYGNET ID: 137522-C-BP1-E000007MBB
WF: 18.1S (LMS Tech)
SAVED: MCC10764, 2/10/2006 9:39:55 AM
PLOTTED: 2/10/2006 12:44:19 PM, Batch Plot
USER: mcc10764

XREF1:BP1-C-HALN01.dwg
XREF2:BP1-C-UTIL01.dwg
XREF3:BP1-C-VALN01.dwg
XREF4:BP1-C-CNTY-PARC.dwg
XREF5:C-TOPO09.dwg
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061933 Exp. CIVIL STATE OF CALIFORNIA

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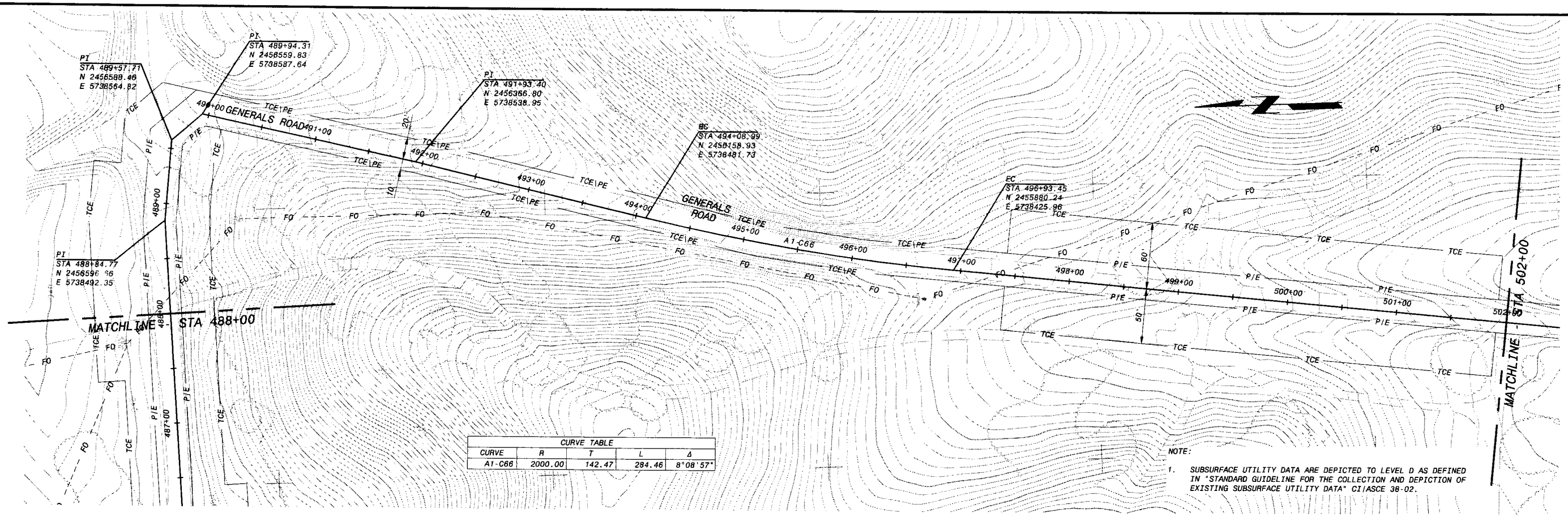
BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 474+00 TO 488+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	A1P-C137
SHEET OF	

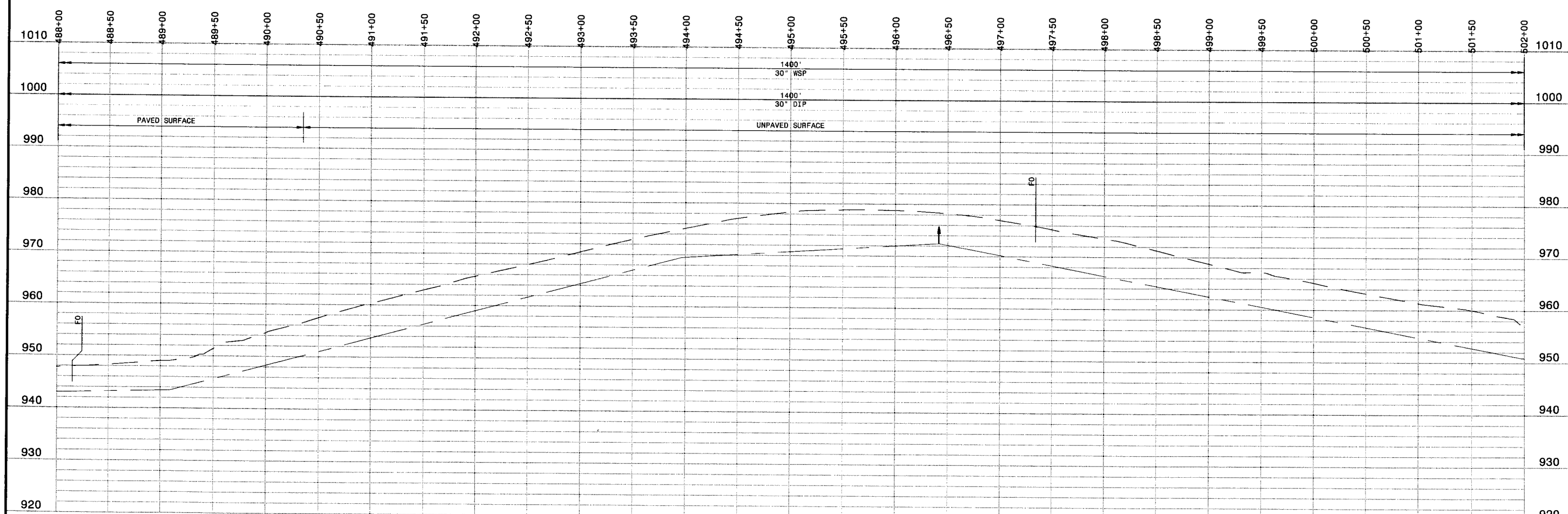
FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C66	2000.00	142.47	284.46	8°08'57"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely.
1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

CYGNET ID: 137522-C-BP1-E00007NBC
WF: 16.1s (LMS Tech)
SAVED: MCC10764, 2/10/2006 9:39:49 AM
PLOTTED: 2/10/2006 12:45:10 PM, Batch Plot
USER: mcc10764
DWG VER: 1.3

XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOPO09.dwg

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. MIDDLETON
No. C061533
Exp. CIVIL
STATE OF CALIFORNIA

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BOYLE ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 488+00 TO 502+00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06

BV PROJECT NO.
137522

NWP PROJECT NO.
3000187.08

SPEC
01

A1P-C138
SHEET
OF

FD137522
D137522

CURVE TABLE				
CURVE	R	T	L	Δ
A1-C67	400.00	174.82	329.63	47°12'56"
A1-C68	560.00	152.43	297.66	30°27'16"

MATCHLINE STA 502+00

BC
STA 502+74.68
N 2455309.65
E 5738352.70

EC
STA 506+04.31
N 2454998.25
E 5738442.97

BC
STA 511+69.87
N 2454582.84
E 5738806.32

EC
STA 514+67.53
N 2454394.96
E 5739047.88

MATCHLINE STA 516+00

STAGING AREA

GENERALS ROAD

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN 'STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA' CI/ASCE 38-02.

1400'
30" WSP

1400'
30" DIP

UNPAVED SURFACE

PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely.
1-800-227-2600

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE
					XREF1:BP1-C-HALN01.dwg
					XREF2:BP1-C-UTIL01.dwg
					XREF3:BP1-C-VALN01.dwg
					XREF4:BP1-C_CNTY_PARC.dwg
					XREF5:C_TOPO05.dwg

CYGNET ID: 137522-C-BP1_E00007NBD
WF: 16.1s (LMS Tech)
SAVED: MCC10764, 2/10/2006 9:39:43 AM
PLOTTED: 2/10/2006 12:45:56 PM, Balch Plot
USER: mcc10764
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER MICHAEL C. MIDDLETON No. C061533 CIVIL STATE OF CALIFORNIA

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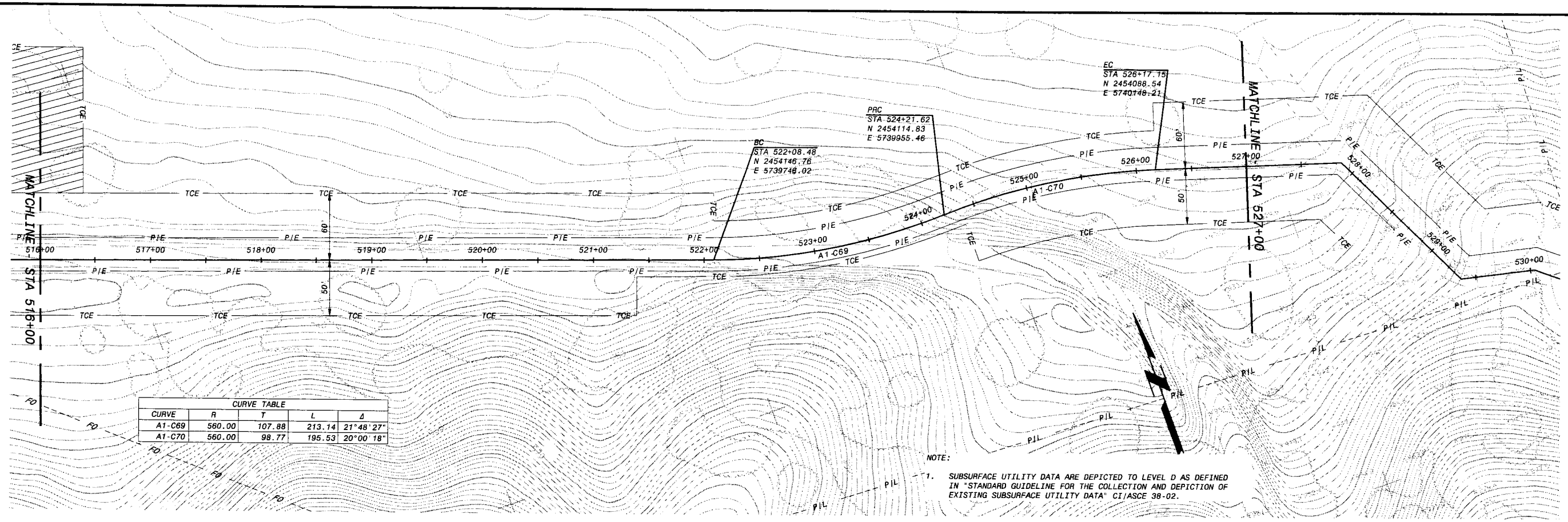
NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 502+00 TO 516+00

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
A1P-C139	
SHEET OF	

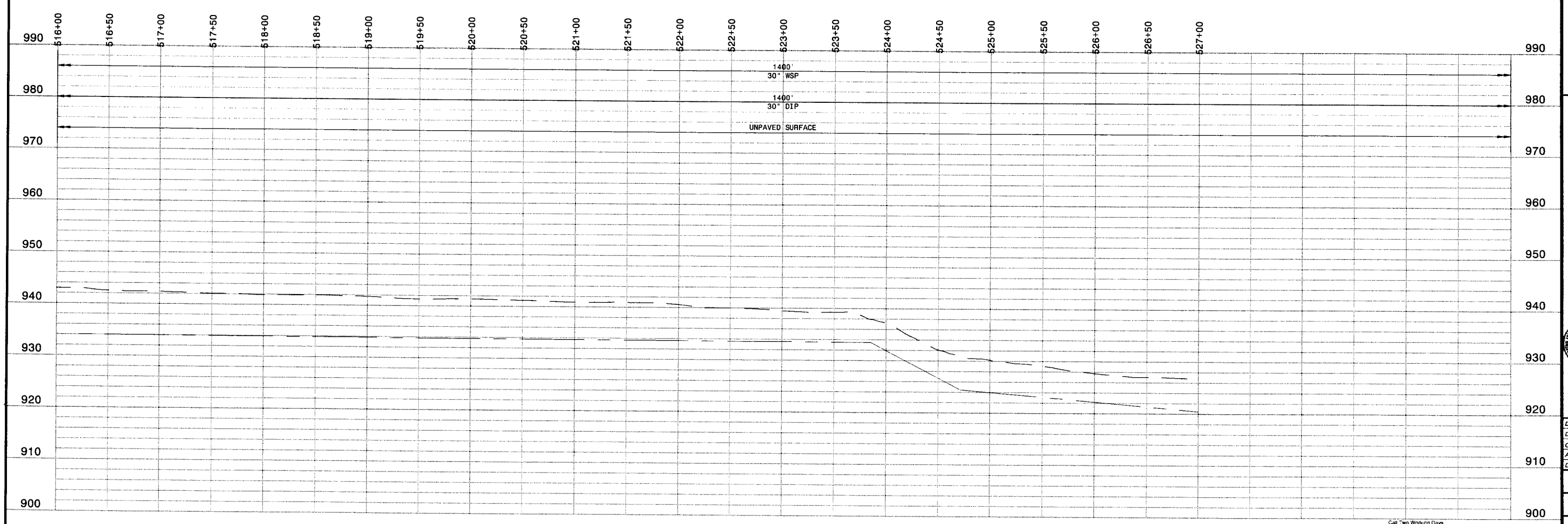
FD137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C69	560.00	107.88	213.14	21°48'27"
A1-C70	560.00	98.77	195.53	20°00'18"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely.
1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

CYGNET ID: 137522-C-BP1-E00007N8F
WF: 16.1s (LMS Tech)
SAVED: MCC10764, 2/10/2006 9:39:37 AM
PLOTTED: 2/10/2006 12:46:54 PM, Batch Plot
USER: mcc10764
DWG VER: 1.3
XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOPO10.dwg

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. MIDDLETON
No. C061533
Exp. CIVIL
STATE OF CALIFORNIA

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NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 516+00 TO 527+00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06

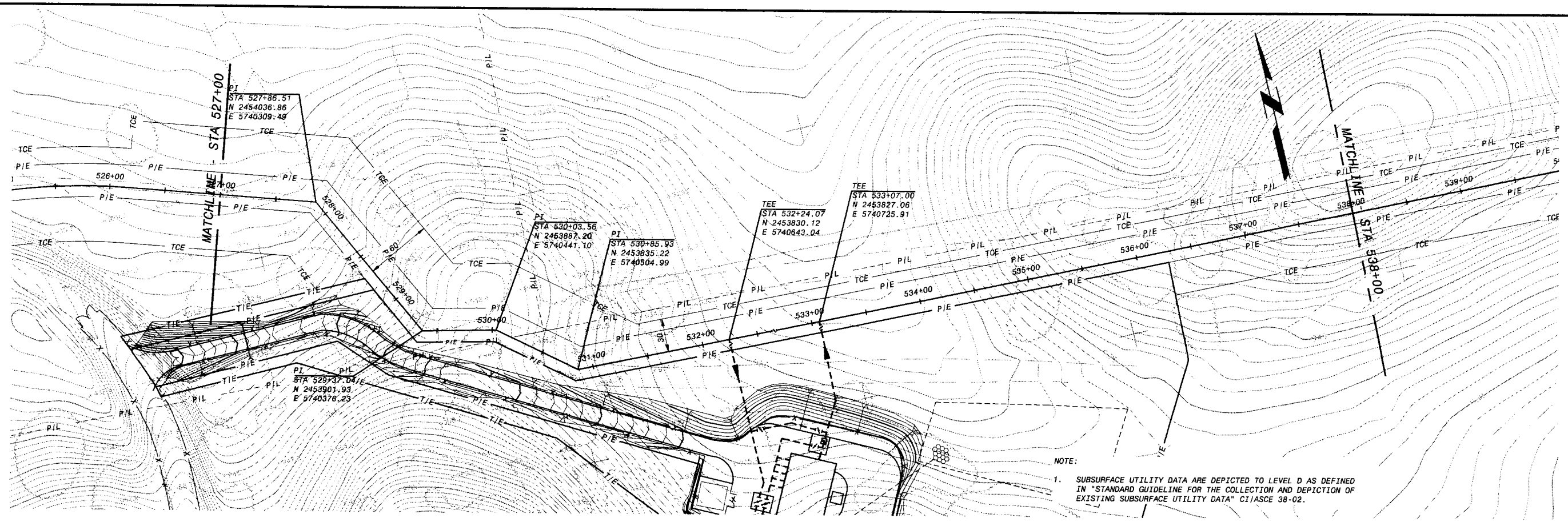
BV PROJECT NO.
137522

NWP PROJECT NO.
3000187.08

SPEC
01

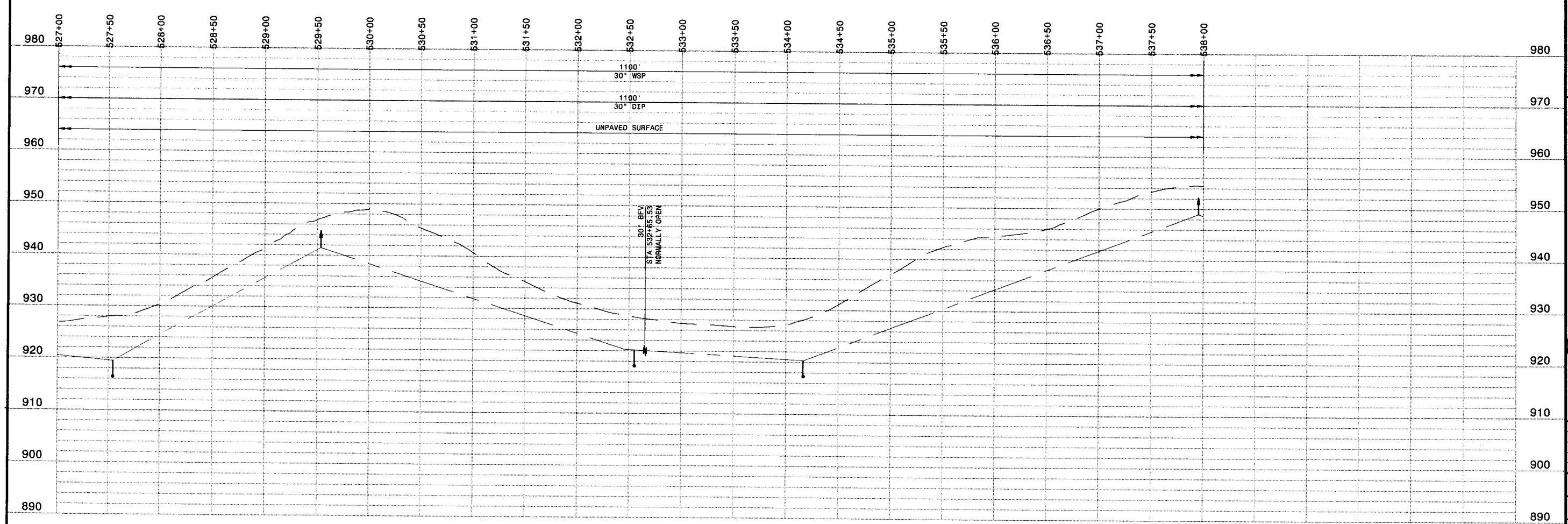
A1P-C140
SHEET
OF

FD137522
D137522



NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

CYGNET ID: 137522-C-BP1-E000084C3
WF: 18.1s (LMS Tech)
SAVED: MCC10764, 2/10/2006 9:39:31 AM
PLOTTED: 2/10/2006 12:47:46 PM, Batch Plot
USER: mcc10764
XREF1: BP1-C-HALN01.dwg
XREF2: BP1-C-UTIL01.dwg
XREF3: BP1-C-VALN01.dwg
XREF4: BP1-C-CNTY-PARC.dwg
XREF5: C-TOPO10.dwg
DWG VER: 1.5

REGISTERED PROFESSIONAL ENGINEER MICHAEL D. MIDDLETON No. C061533 Exp. CIVIL STATE OF CALIFORNIA

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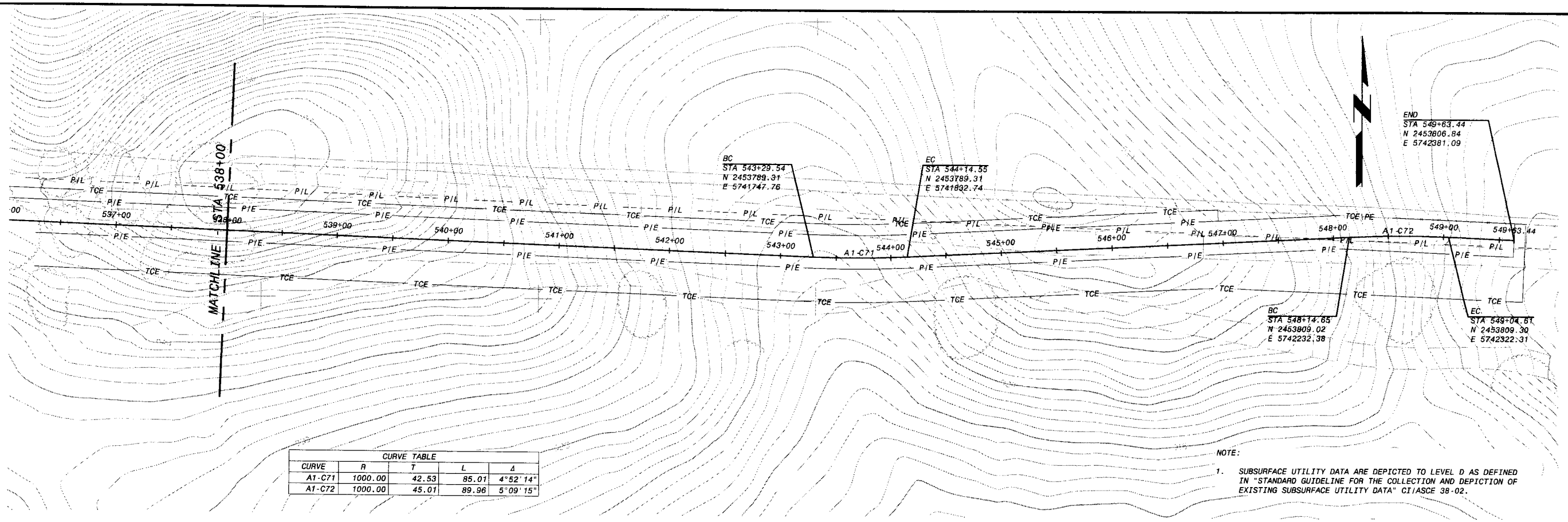
NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 527+00 TO 538+00

DESIGNED:
DETAILED:
CHECKED:
APPROVED:
DATE: 2/22/06
BV PROJECT NO. 137522
NWP PROJECT NO. 3000187.08
SPEC 01
A1P-C141
SHEET OF

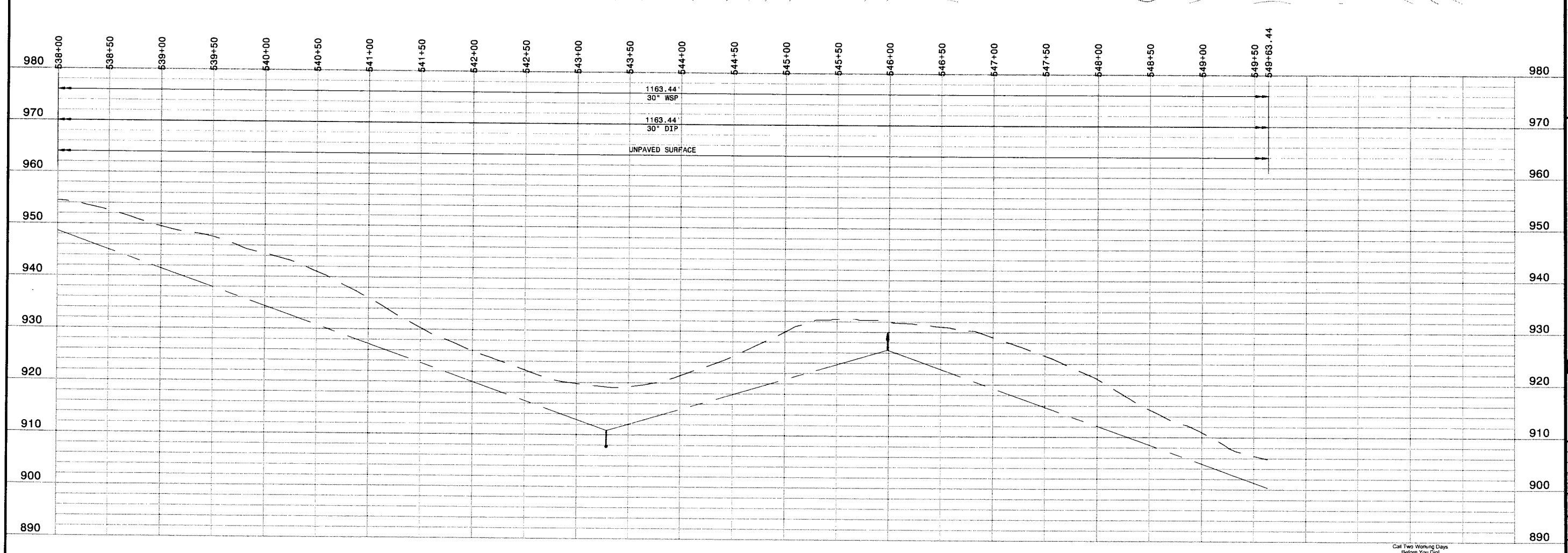
F0137522
D137522



CURVE TABLE				
CURVE	R	T	L	Δ
A1-C71	1000.00	42.53	85.01	4°52'14"
A1-C72	1000.00	45.01	89.96	5°09'15"

NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 50'
VER: 1" = 10'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely.
1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

CYDNET ID: 137522-C-BP1-E00008AC4
WF: 16.1s (LMS Tech)
SAVED: MCC10764, 2/10/2006 9:39:24 AM
PLOTTED: 2/10/2006 12:48:40 PM, Batch Plot
USER: MCC10764

XREF1:BP1-C-HALN01.dwg
XREF2:BP1-C-UTIL01.dwg
XREF3:BP1-C-VALN01.dwg
XREF4:BP1-C-CNTY_PARC.dwg
XREF5:C-TOPO10.dwg
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. MIDDLETON
No. C061933
Exp. CIVIL
STATE OF CALIFORNIA

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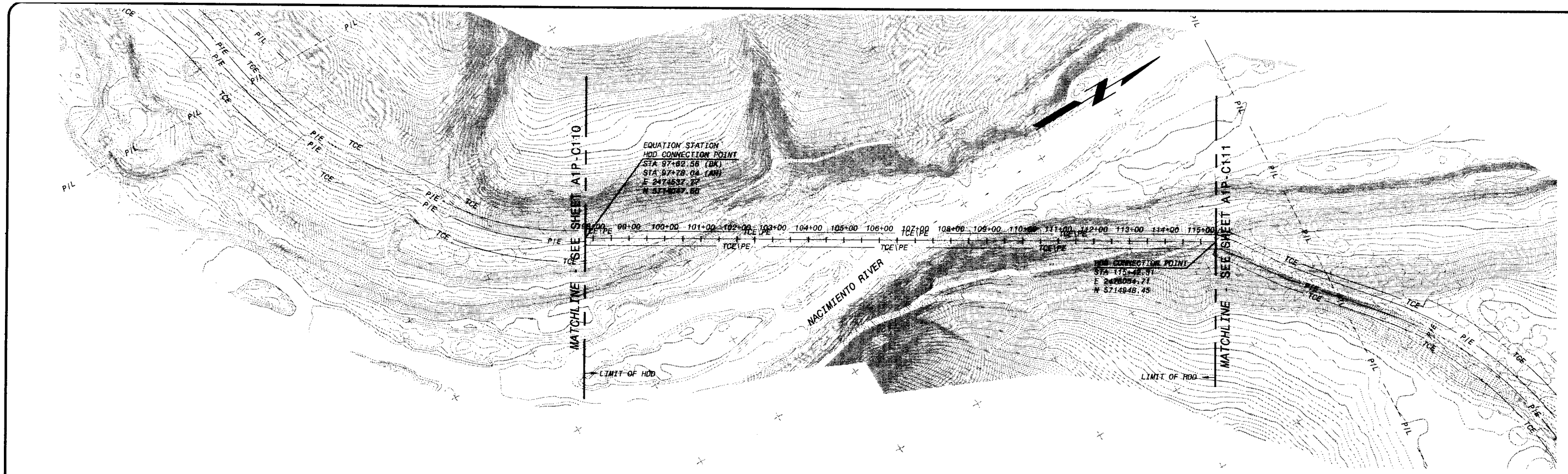
BOYLE
ENGINEERING CORPORATION

NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 538+00 TO 549+63.44

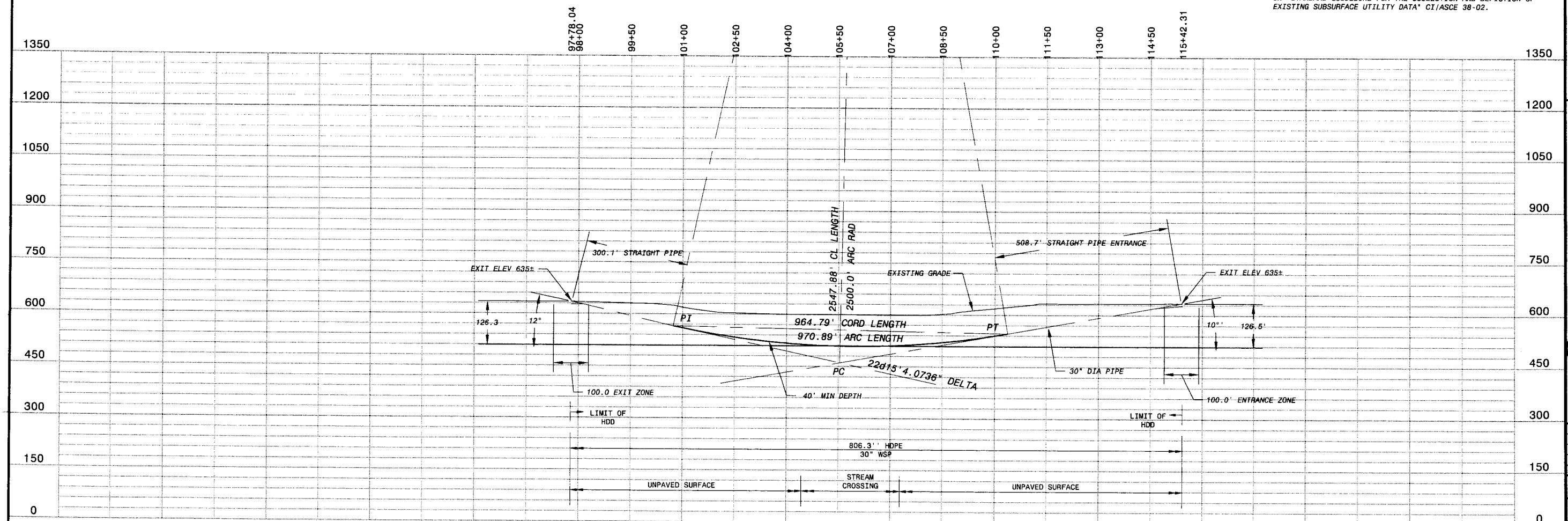
DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	A1P-C142
SHEET OF	

F0137522
D137522



NOTE:

1. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" CI/ASCE 38-02.



PLAN AND PROFILE
HOR: 1" = 150'
VER: 1" = 150'

PRELIMINARY - NOT FOR CONSTRUCTION

Call Two Working Days Before You Dig!
Dig Safely. 1-800-227-2600

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

CYGNET ID: 137522-C-BP1-E00008405
WF: 16.1s (LMS Tech)
SAVED: MCC10764, 2/10/2006 9:39:17 AM
PLOTTED: 2/10/2006 12:49:27 PM, Batch Plot
USER: mcc10764

XREF1:BP1_C-HALN01.dwg
XREF2:BP1_C-UTIL01.dwg
XREF3:BP1-C_VALN01.dwg
XREF4:BP1_C-CNTY_PARC.dwg
XREF5:C_TOPO02.dwg
DWG VER: 1.3

REGISTERED PROFESSIONAL ENGINEER DAVID R. YANOVICH No. 041394 Exp. CIVIL STATE OF CALIFORNIA

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BOYLE
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NWP NACIMIENTO WATER PROJECT

UNIT A1 - PIPELINE
CIVIL
PLAN AND PROFILE STA 97+78.04 TO 115+42.31

DESIGNED:	
DETAILED:	
CHECKED:	
APPROVED:	
DATE:	2/22/06
BV PROJECT NO.	137522
NWP PROJECT NO.	3000187.08
SPEC	01
	A1P-C143
SHEET OF	

FD137522
D137522