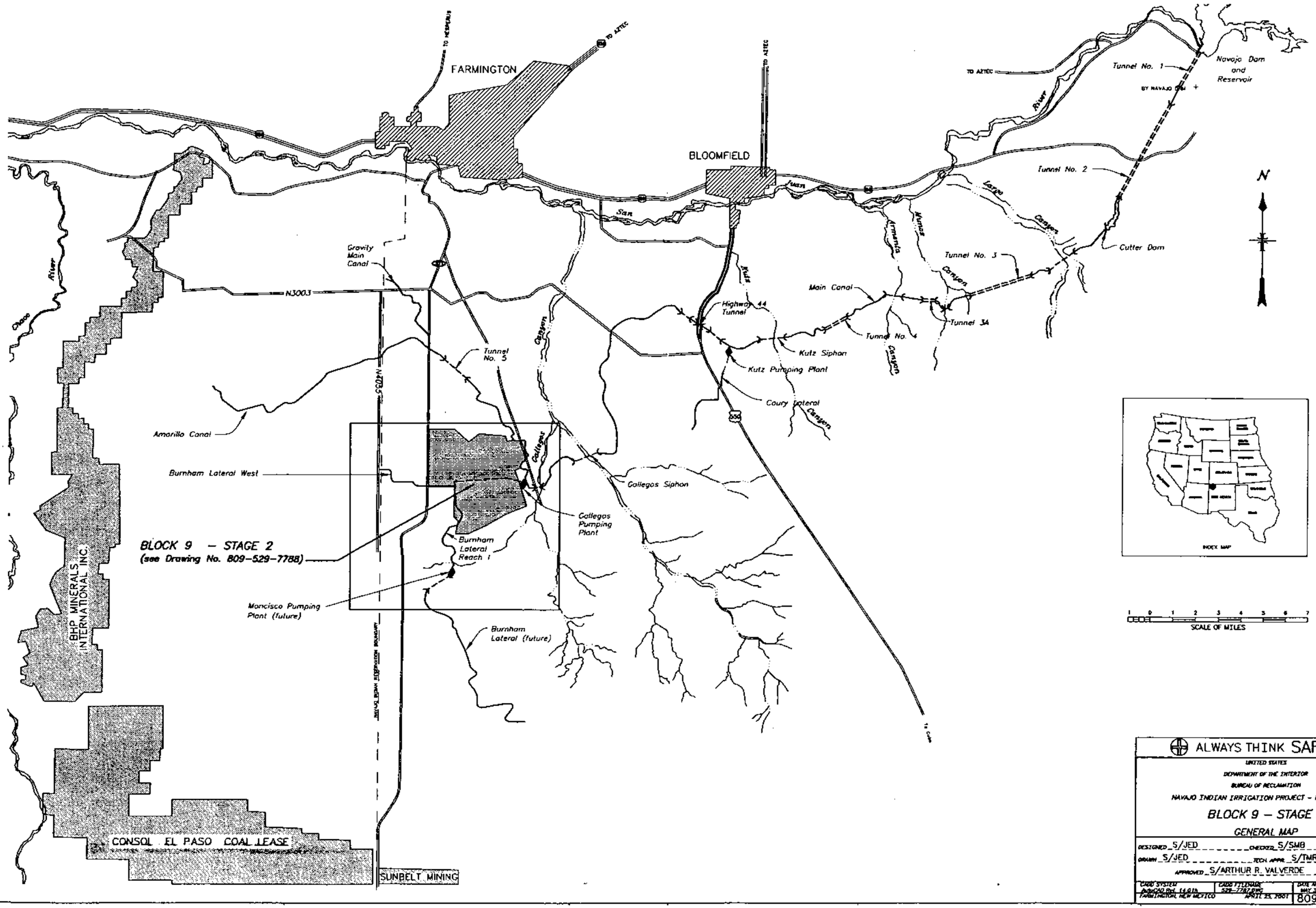
Appendix A
Drawings

809-529-7787



ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

NAVAJO INDIAN IRRIGATION PROJECT - NEW MEXICO

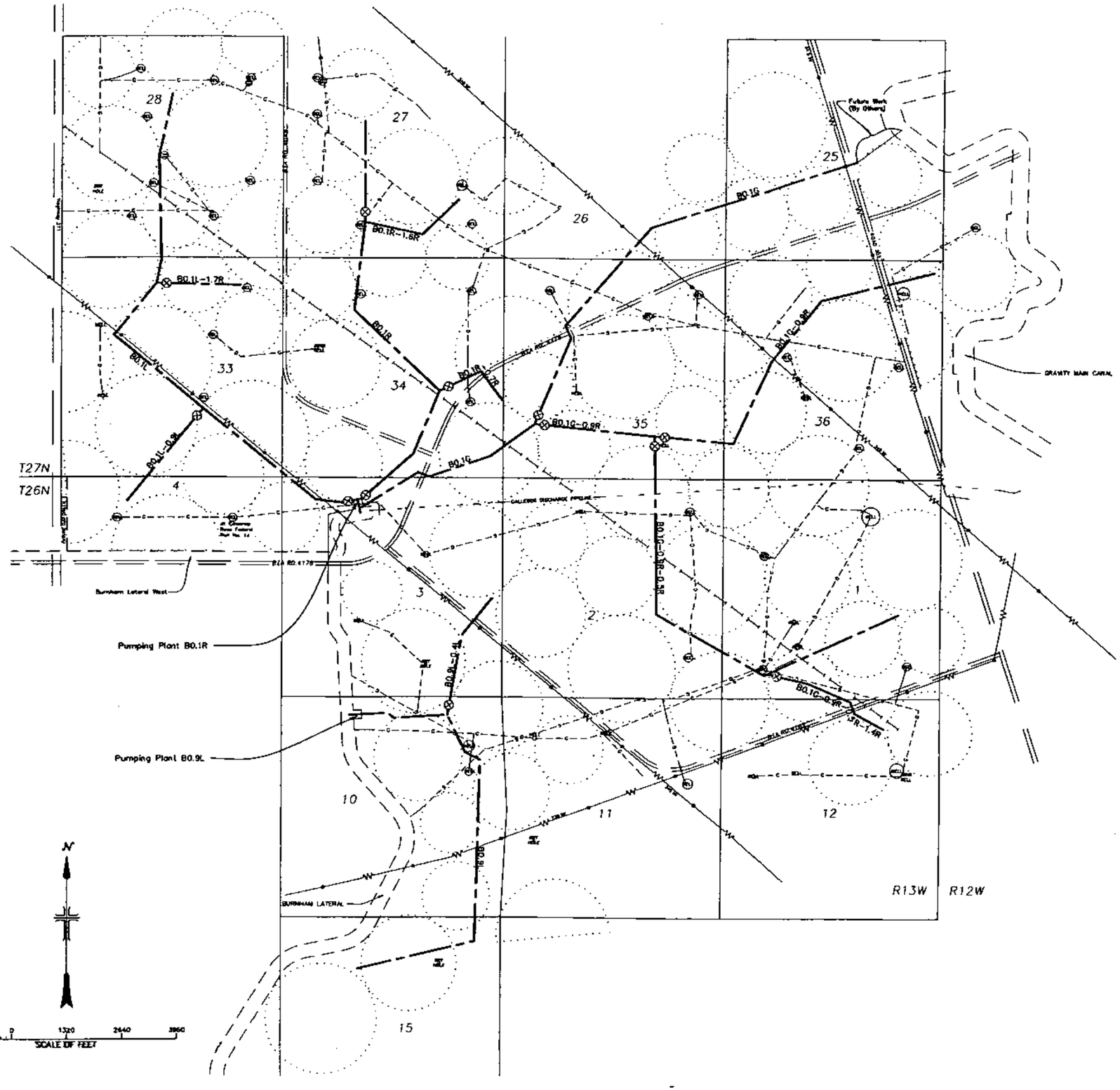
BLOCK 9 – STAGE 2

GENERAL MAP

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

CADD SYSTEM	CADD FILENAME	DATE AND TIME PLOTTED
AutoCAD Rel. 14.01b FARMINGTON, NEW MEXICO	529-7787.DWG APRIL 25, 2001	MAY 3 2001 15:28

809-529-7787



LEGEND:

- BURIED AND EXPOSED GAS LINES
- BURIED OIL LINE
- TRANSMISSION LINES
- EXISTING PAVED ROADS
- FUTURE BIA ROADS
- GALLEGOS DISCHARGE LINE
- PIPE LATERAL ℄
- SECTIONALIZING VALVE
- FUTURE FIELDS

ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT - NEW MEXICO

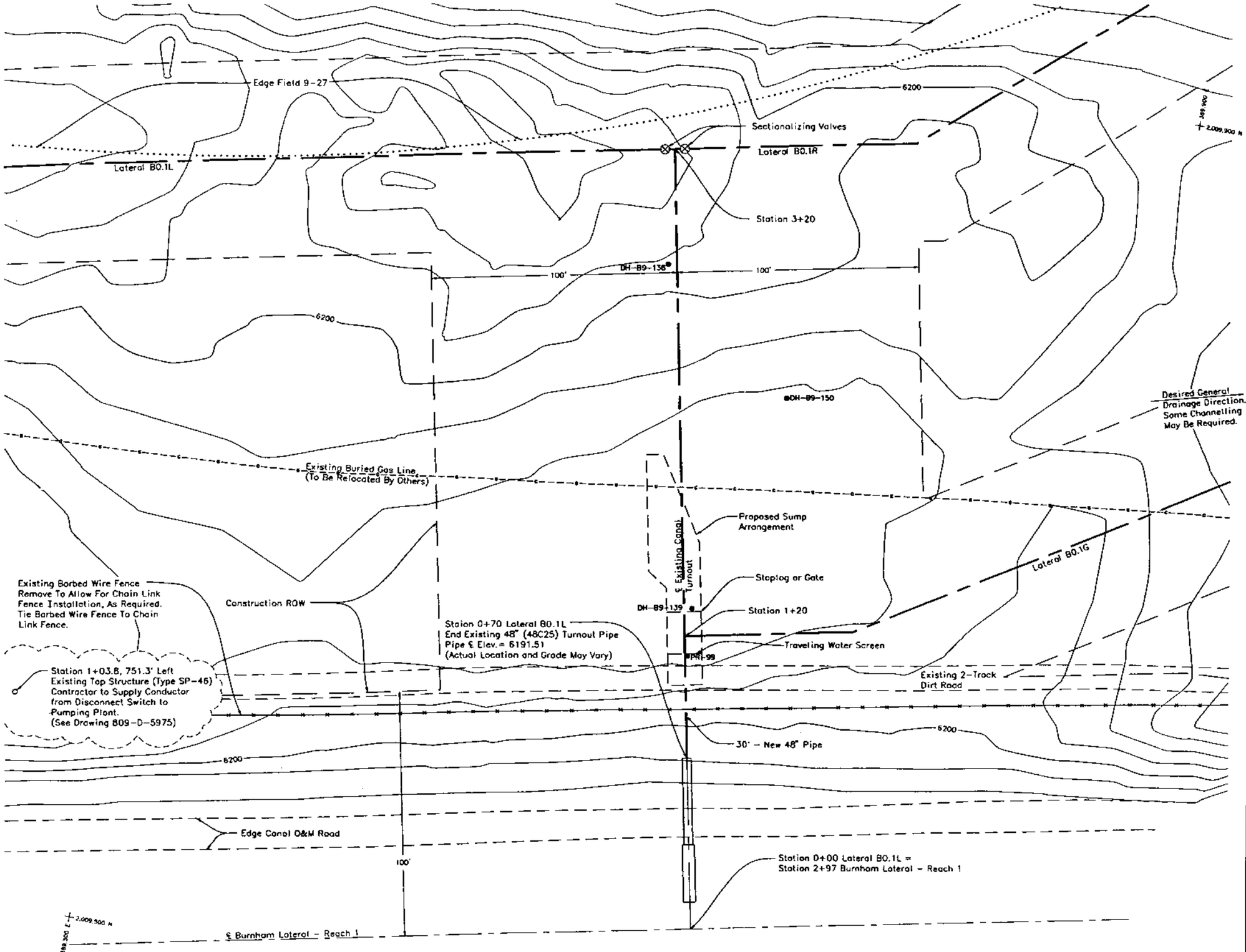
BLOCK 9 -- STAGE 2

LOCATION MAP

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

CADD SYSTEM	CADD FILENAME	CADD ADDITIONAL PLOTTED
AutoCAD Rel. 14.01b FARMINGTON, NEW MEXICO	529-7788.DWG APRIL 25, 2001	MAY 3, 2001 15:31

809-529-7788



Section 3, T.26 N., R.13 W.

NOTES

Grid based on New Mexico State Coordinate System, West Zone
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 1 Foot.
BLM Datum.

ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT - NEW MEXICO

BLOCK 9 - STAGE 2

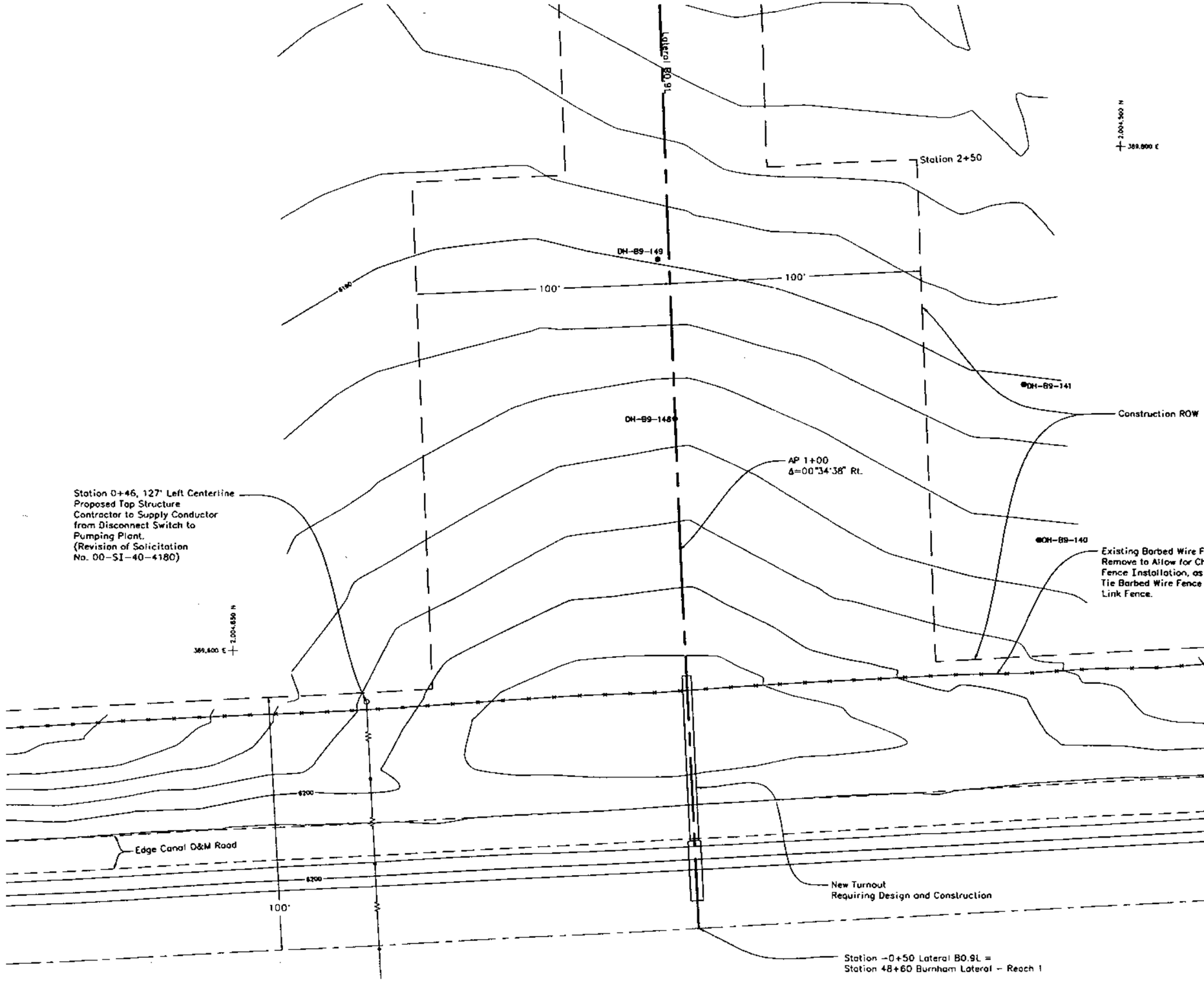
PUMPING PLANT B0.1R

SITE PLAN

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

GRID SYSTEM	CADD FILENAME	DATE AND TIME PLOTTED
AutoCAD Rel. 14.01b Farmington, New Mexico	529-7789.DWG APRIL 25, 2001	MAY 3, 2001 11:52

809-529-7789



N

20 0 20 40 60
SCALE OF FEET

Section 10, T.26 N., R.13 W.

NOTES

Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 1 Foot.
BLM Datum.

NOTE TO DESIGNERS: MANIFOLD CENTERLINE AFTER HORIZONTAL BEND WILL NOT PARALLEL TURNOUT CENTERLINE. (SMALL A.P. AT 1+00)

ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT – NEW MEXICO

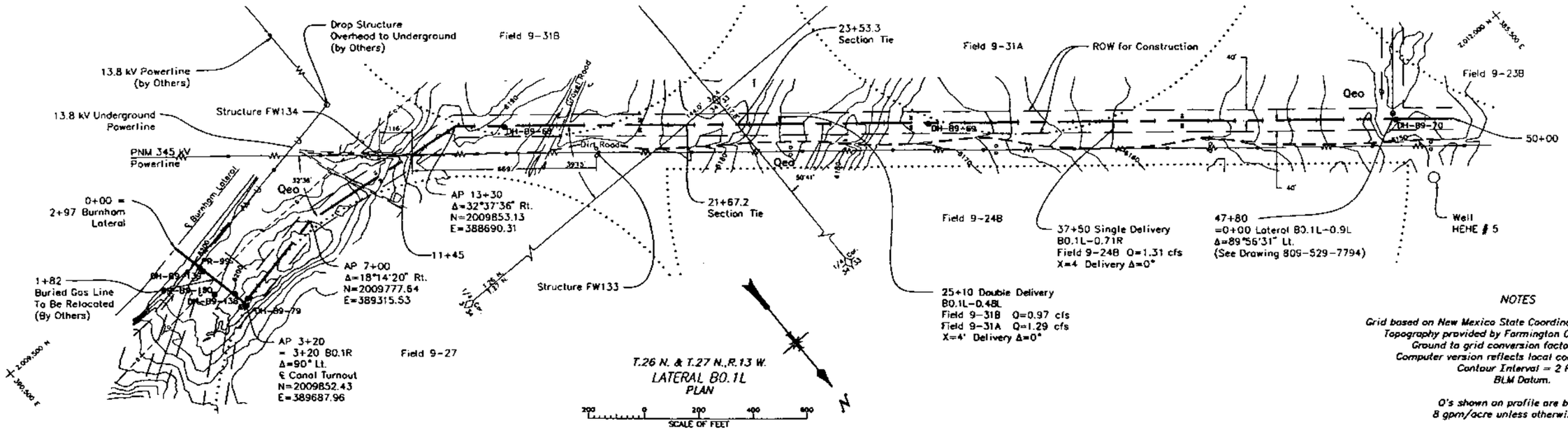
BLOCK 9 – STAGE 2

PUMPING PLANT B0.9L

SITE PLAN

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

CADD SYSTEM	CADD FILENAME	DATE AND TIME PLOTTED
AutoCAD Rel. 14.01h	529-7790.DWG	MAY 3, 2001 13:33
FARMINGTON, NEW MEXICO	APRIL 25, 2001	809-529-7790



NOTES

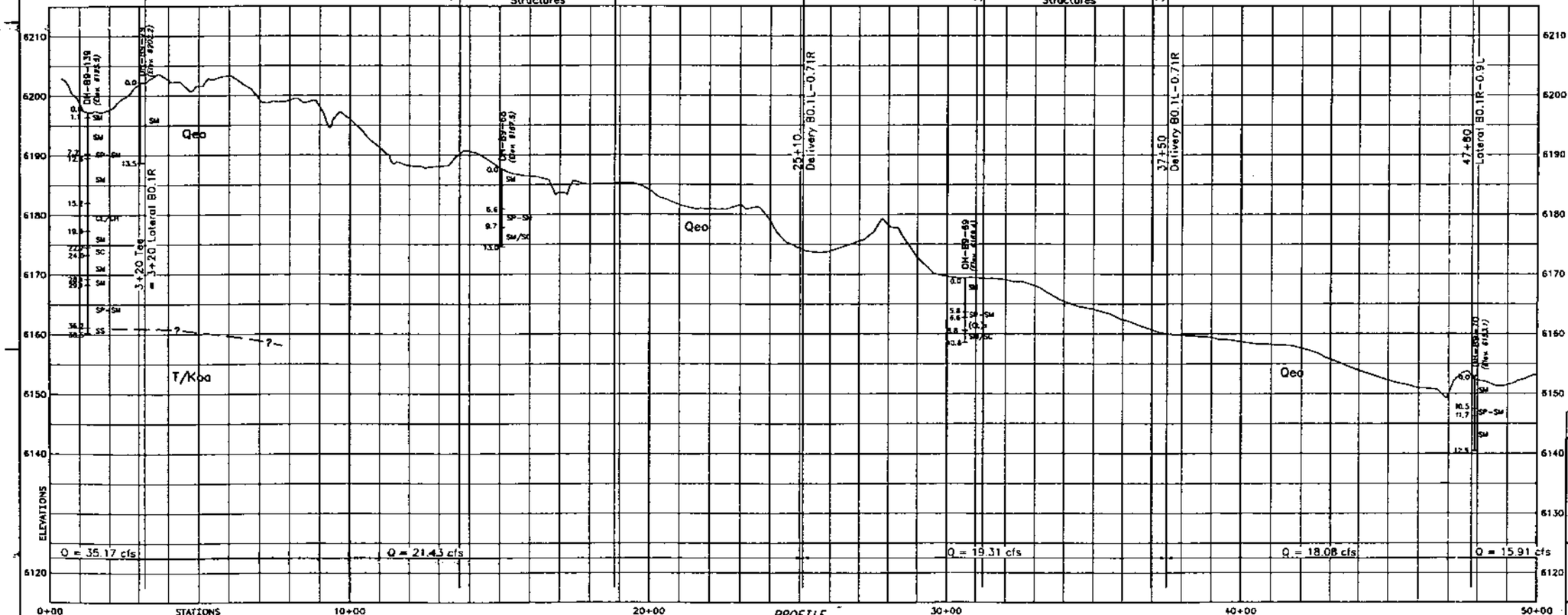
Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 2 Feet.
BLM Datum.

Q's shown on profile are based on 8 gpm/acre unless otherwise noted.

For General Geologic Legend, Explanation, and Notes, see Drawing No. 809-529-7820

For Further Detail see the Specific Drill Hole Log and the Station to Station Geology Sections.

Drill holes PR-99 and DH-89-150 not shown on Profile.



ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT -- NEW MEXICO

BLOCK 9 - STAGE 2

LATERAL B0.1L

BEGINNING TO STATION 50+00

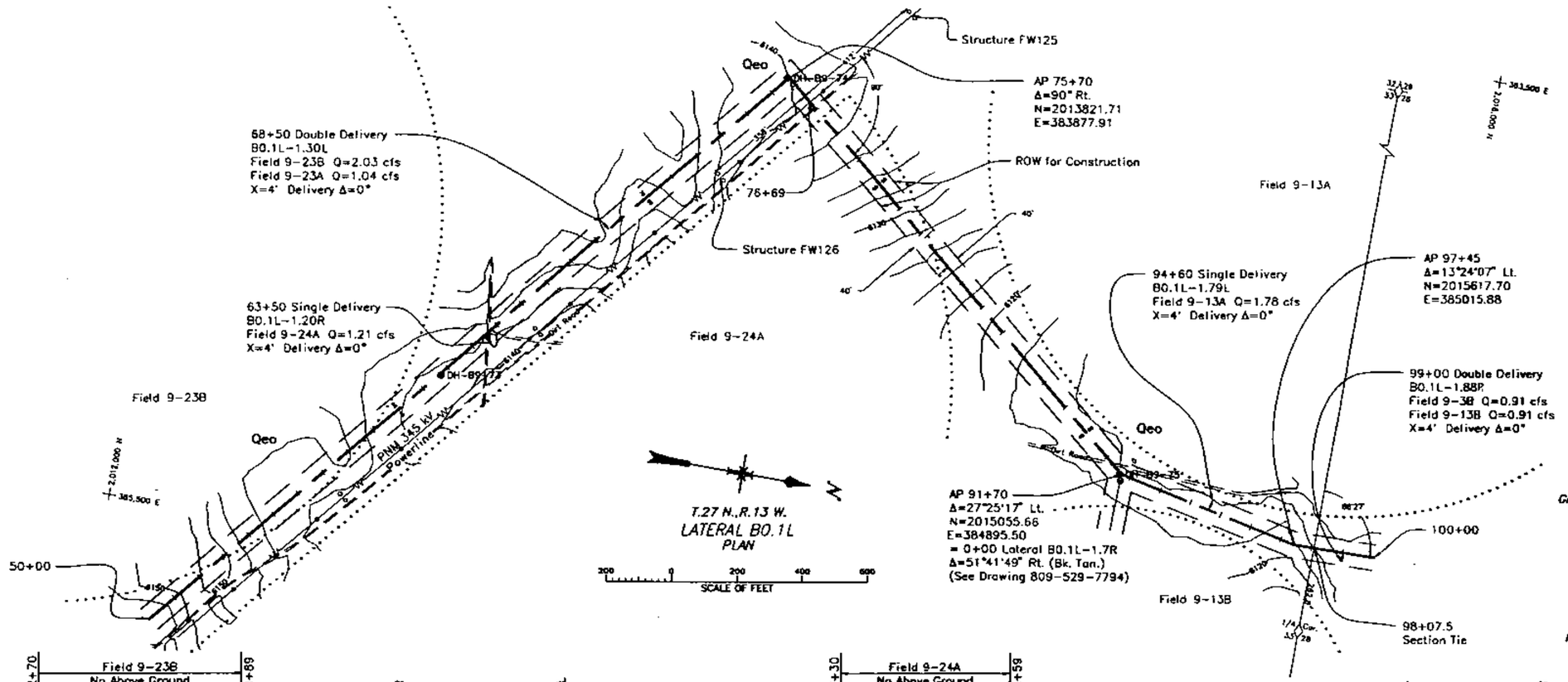
PLAN AND PROFILE

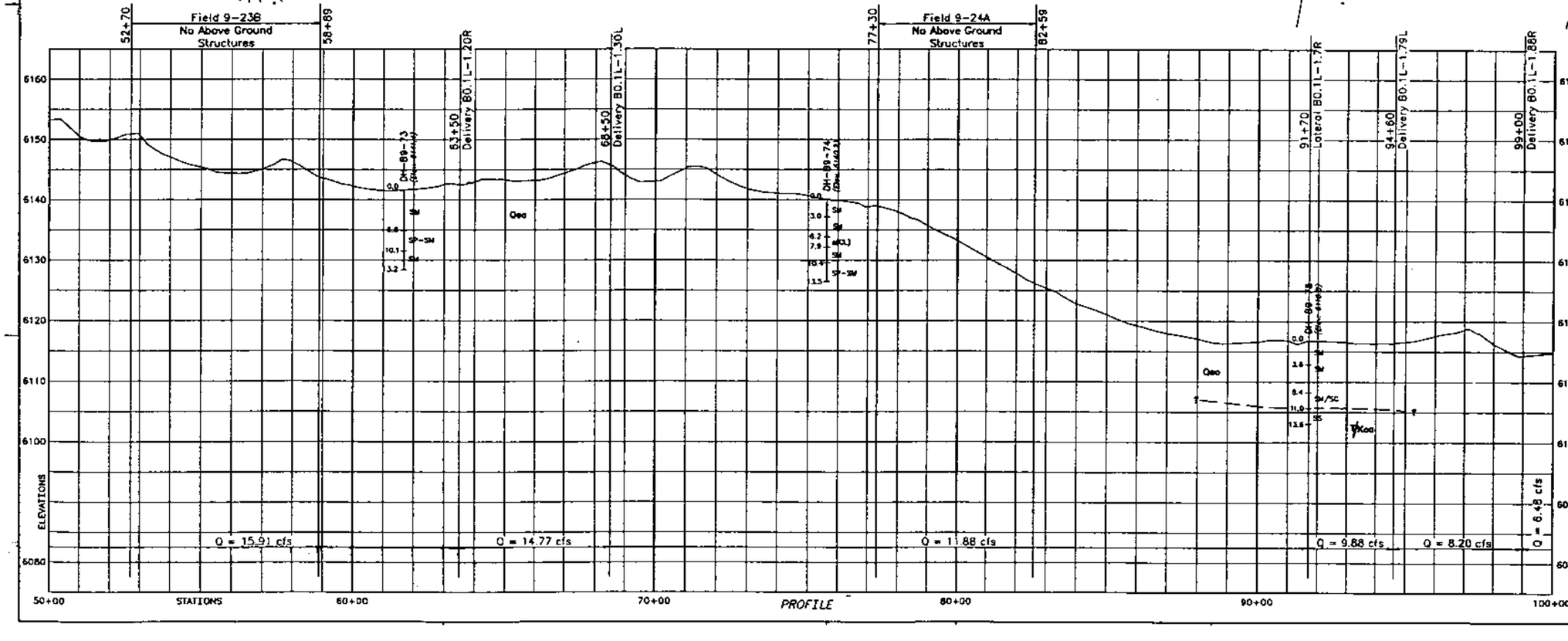
GEOLOGY Date 6-7-01
TECHNICAL APPROVAL S/JAMES A. GATES
SUBMITTED S/LES W. STONE
APPROVED S/MICHAEL R. DEHING

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

CADD SYSTEM AutoCAD Rel. 14.01b FARMINGTON, NEW MEXICO
CADD FILENAME 529-7791.DWG APRIL 25, 2001
DATE AND TIME PLOTTED MAY 2, 2001 13:33

809-529-7791





S/JAMES A. GATES
S/LES W. STONE
S/MICHAEL R. DEMING

ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT - NEW MEXICO

BLOCK 9 - STAGE 2

LATERAL 80.1L

STATION 50+00 TO 100+00

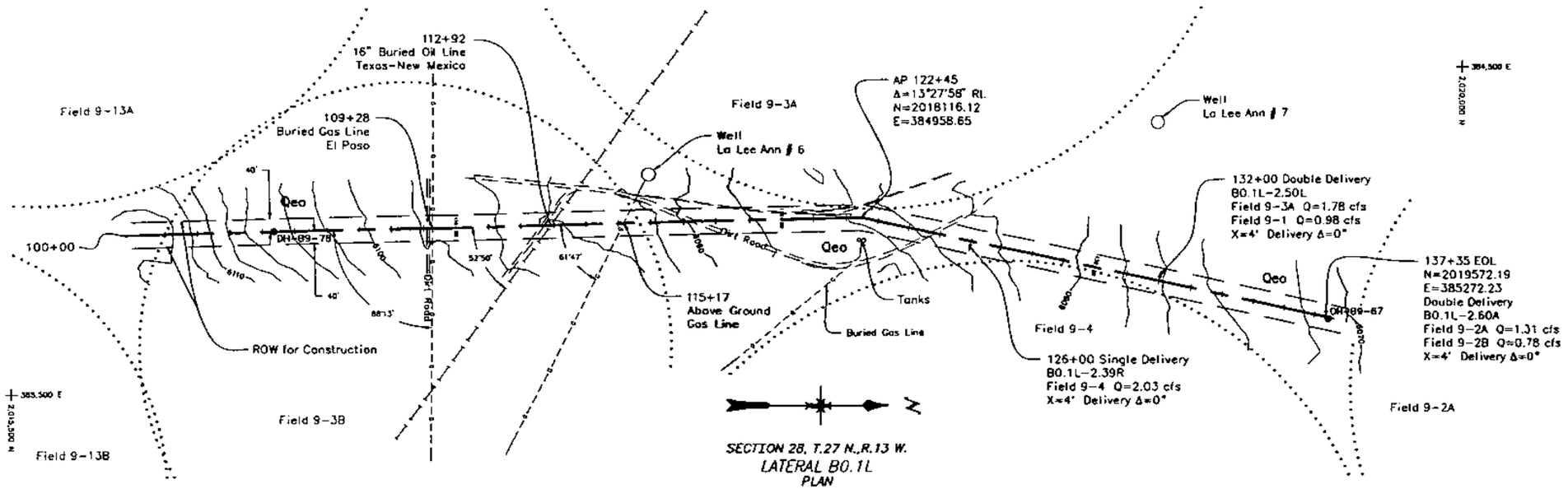
PLAN AND PROFILE

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

CADD SYSTEM	CADD FILENAME	DATE AND TIME PLOTTED
AutoCAD Rel. 14.01b FARMINGTON, NEW MEXICO	529-7792.DWG APRIL 25, 2001	MAY 3, 2001 13:34

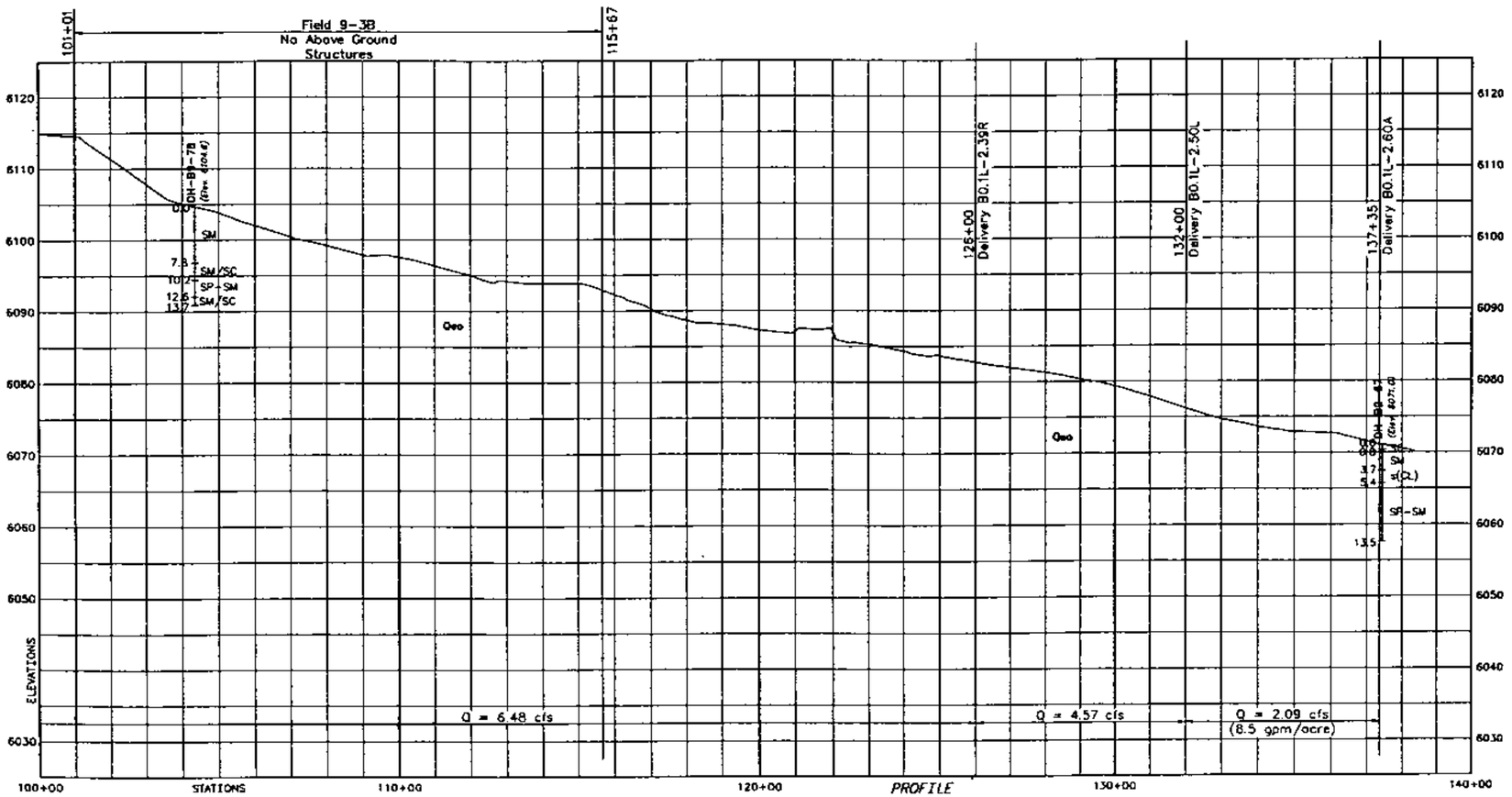
809-529-7792

809-529-7793



SECTION 28, T.27 N.,R.13 W.
LATERAL B0.1L
PLAN

200 0 200 400 800
SCALE OF FEET



NOTES

Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 2 Feet.
BLM Datum.

Q's shown on profile are based on 8 gpm/acre unless otherwise noted.

For General Geologic Legend, Explanation, and Notes, see Drawing No. 809-529-7820

For Further Detail see the Specific Drill Hole Log and the Station to Station Geology Sections.

TECHNICAL APPROVAL S/JAMES A. GATES
SUBMITTED S/LES W. STONE
APPROVED S/MICHAEL R. DEMING

ALWAYS THINK SAFETY

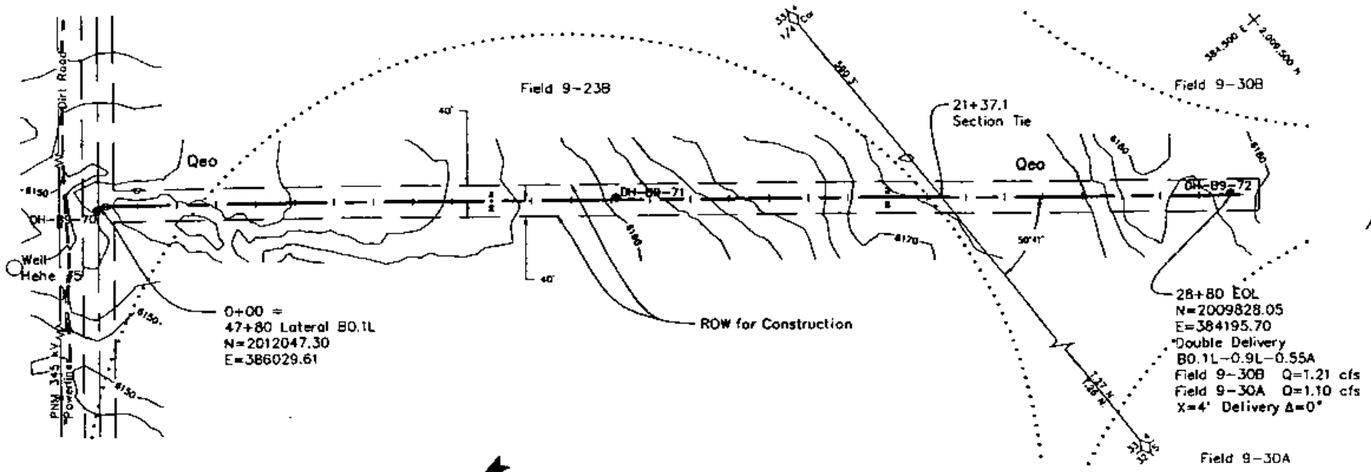
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT – NEW MEXICO

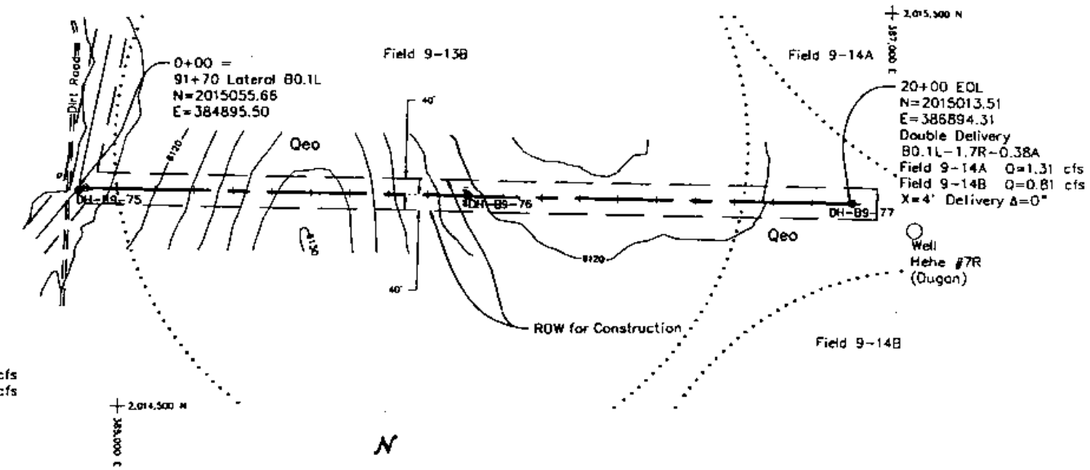
BLOCK 9 – STAGE 2
LATERAL B0.1L
STATION 100+00 TO END
PLAN AND PROFILE

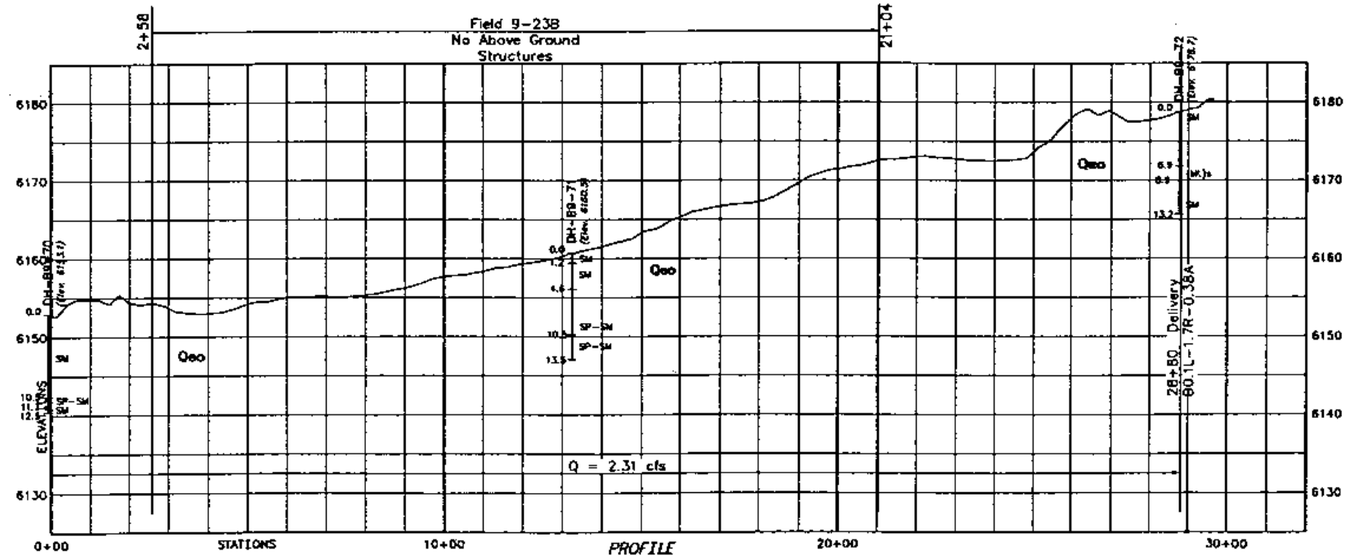
DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

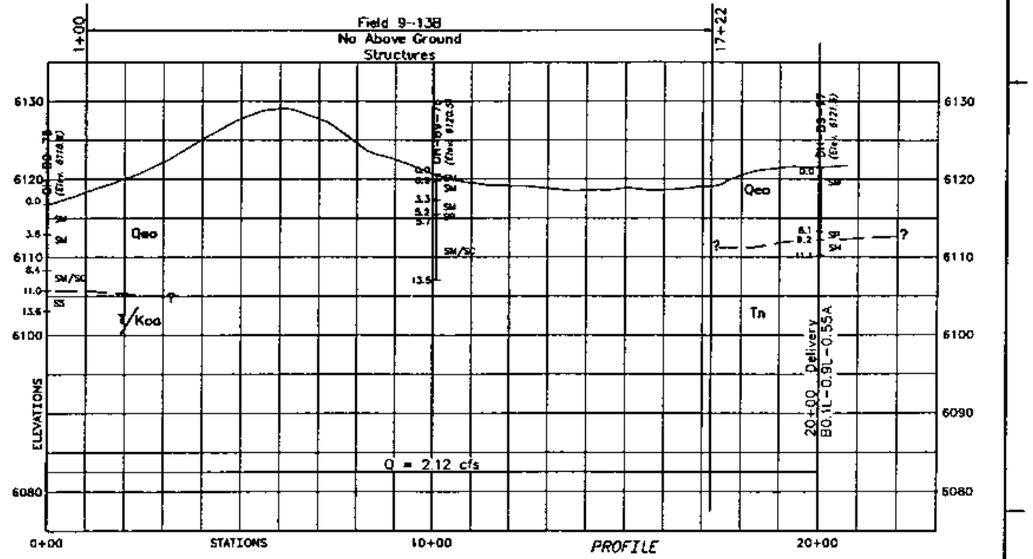
CADD SYSTEM	CADD FILENAME	DATE AND TIME PLOTTED
AutoCAD Rel. 14.01a FARMINGTON, NEW MEXICO	529-7793.DWG APRIL 25, 2001	MAY 3, 2001 11:33

809-529-7793









NOTES

Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 2 Feet.
BLM Datum.

Q's shown on profile are based on 8.5 gpm/acre.

For General Geologic Legend, Explanation, and Notes, see Drawing No. 809-529-7820

For Further Detail see the Specific Drill Hole Log and the Station to Station Geology Sections.

GEOLOGY Date 4-3-01
TECHNICAL APPROVAL S/JAMES A. GATES
SUBMITTED S/LES W. STONE
APPROVED S/MICHAEL R. DEMING

ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT - NEW MEXICO

BLOCK 9 - STAGE 2
LATERAL B0.1L-0.9L
LATERAL B0.1L-1.7R
PLANS AND PROFILES

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

CADD SYSTEM AutoCAD Rel. 14.01b
CADD FILENAME 529-7794.DWG
DATE AND TIME PLOTTED MAY 3, 2001 13:56
FARMINGTON, NEW MEXICO APRIL 25, 2001
809-529-7794

TECHNICAL APPROVAL S/JAMES A. GATES
SUBMITTED S/LES W. STONE
APPROVED S/MICHAEL R. DEMING

3+20 =
3+20 Lateral B0.1L
Δ=90° Rt.
℄ Canal Turnout
N=2009852.43
E=389687.96

AP 4+20
Δ=29°44'24" Lt.
N=2009872.11
E=389785.97

11+85.7
Section Tie

10+50 Single Delivery
B0.1R-0.20L
Field 9-27 Q=1.16 cfs
X=4' Delivery Δ=0°

Field 9-27

Field 9-18

T.26 N. & T.27 N.,R.13 W.
LATERAL B0.1R
PLAN

SCALE OF FEET

AP 20+60
Δ=26°39'24" Lt.
N=2010949.69
E=391021.46

BIA Road ROW

ROW for Construction

22+03.4
℄ BIA Road 4049
Δ=90°
(Future)

35+96
16" Buried Oil Line
Texas-New Mexico

AP 37+00
Δ=68°29'05" Lt.
N=2012467.03
E=391642.18
=0+00 Lateral B0.1R-0.7R
Δ=42°34'22" Rt. (Bk. Tan.)
(See Drawing 809-529-7797)

60+00

Qeo

DH-89-79

DH-89-80

DH-89-81

DH-89-84

Tn

2,009,500 N
391,000 E

2,011,000 N
380,500 E

NOTES

Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 2 Feet.
BLM Datum.

Q's shown on profile are based on 8 gpm/acre unless otherwise noted.

For General Geologic Legend, Explanation, and Notes, see Drawing No. 809-529-7820

For Further Detail see the Specific Drill Hole Log and the Station to Station Geology Sections.

ELEVATIONS

STATIONS

PROFILE

3+20 Tee = 3+20 Lateral B0.1L

10+50 Delivery B0.1R-0.20L

37+00 Lateral B0.1R-0.7R

See Drawing 809-529-7797

Q = 13.74 cfs

Q = 12.65 cfs

Q = 9.57 cfs

ALWAYS THINK SAFETY

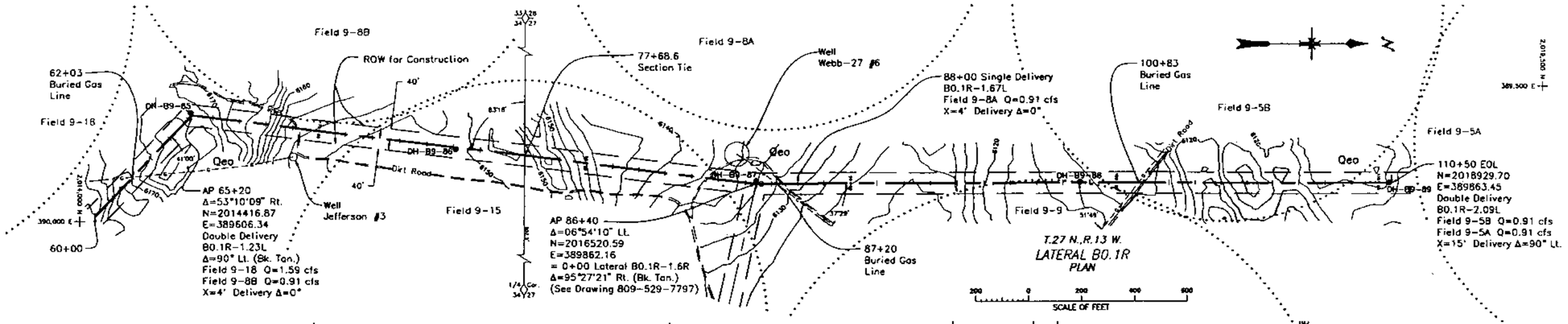
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT - NEW MEXICO

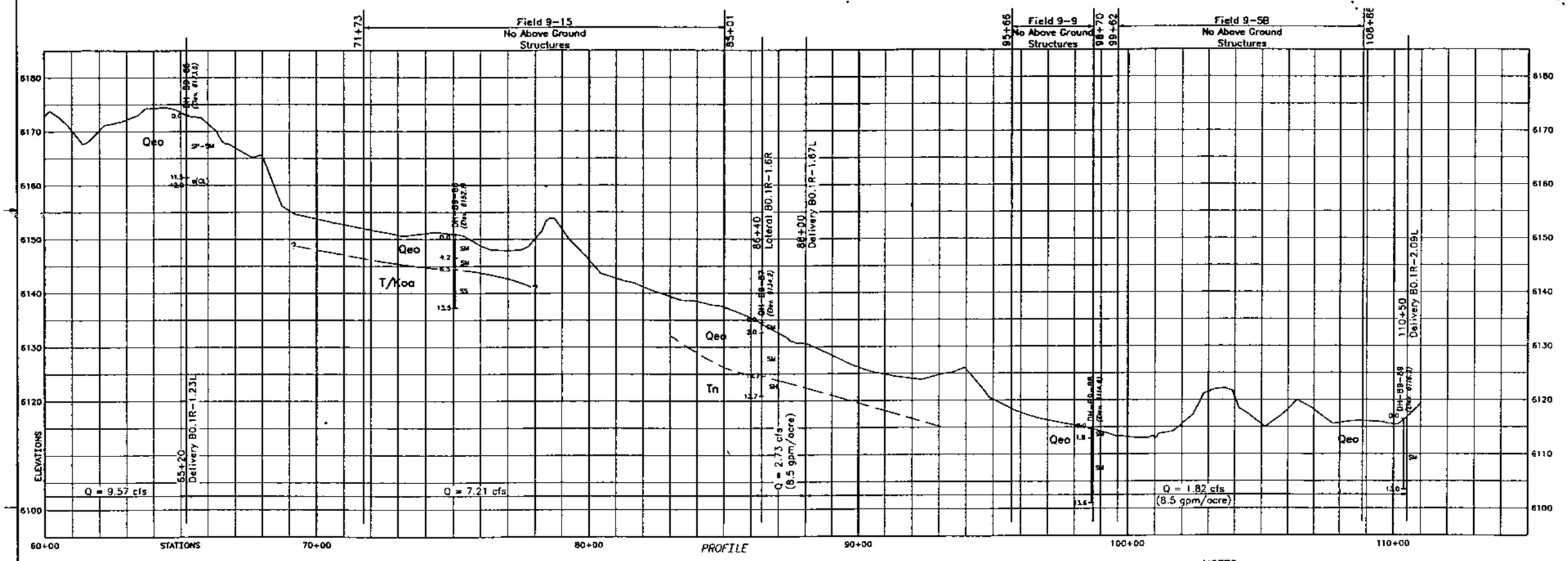
BLOCK 9 - STAGE 2
LATERAL B0.1R
BEGINNING TO STATION 60+00
PLAN AND PROFILE

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

CADD SYSTEM	CADD FILENAME	DATE AND TIME PLOTTED
AutoCAD Rel. 14.01b FARMINGTON, NEW MEXICO	529-7795.DWG APRIL 25, 2001	MAY 3, 2001 13:37

809-529-7795





NOTES

Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 2 Feet.
BLM Datum.

Q's shown on profile are based on 8 gpm/acre unless otherwise noted.

For General Geologic Legend, Explanation, and Notes, see Drawing No. 809-529-7820

For Further Detail see the Specific Drill Hole Log and the Station to Station Geology Sections.

TECHNICAL APPROVAL S/JAMES A. GATES
SUBMITTED S/LES W. STONE
APPROVED S/MICHAEL R. DEMING

ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT – NEW MEXICO

BLOCK 9 – STAGE 2

LATERAL B0.1R

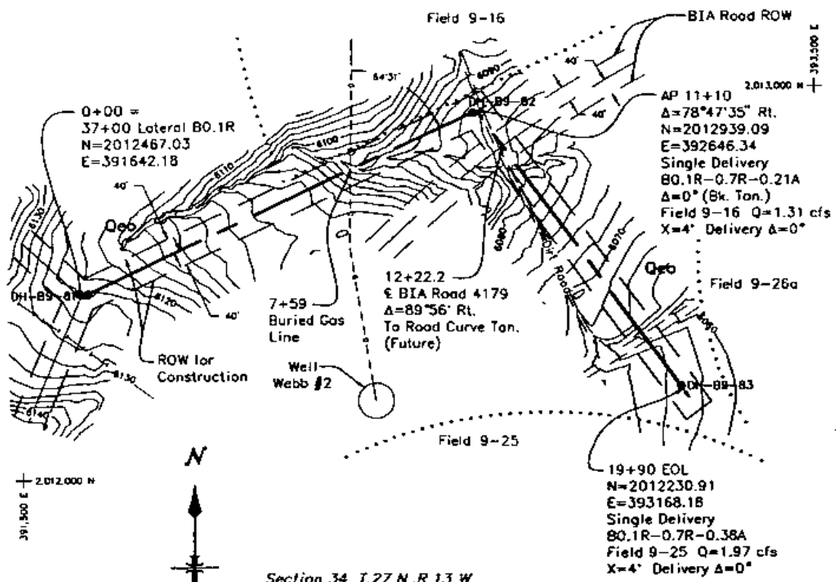
STATION 60+00 TO END

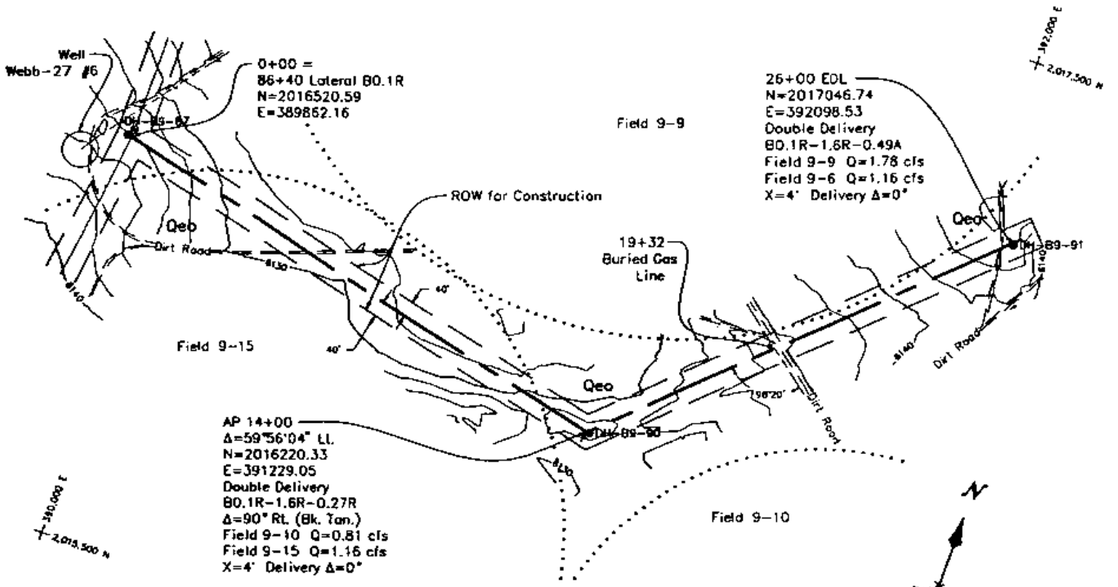
PLAN AND PROFILE

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

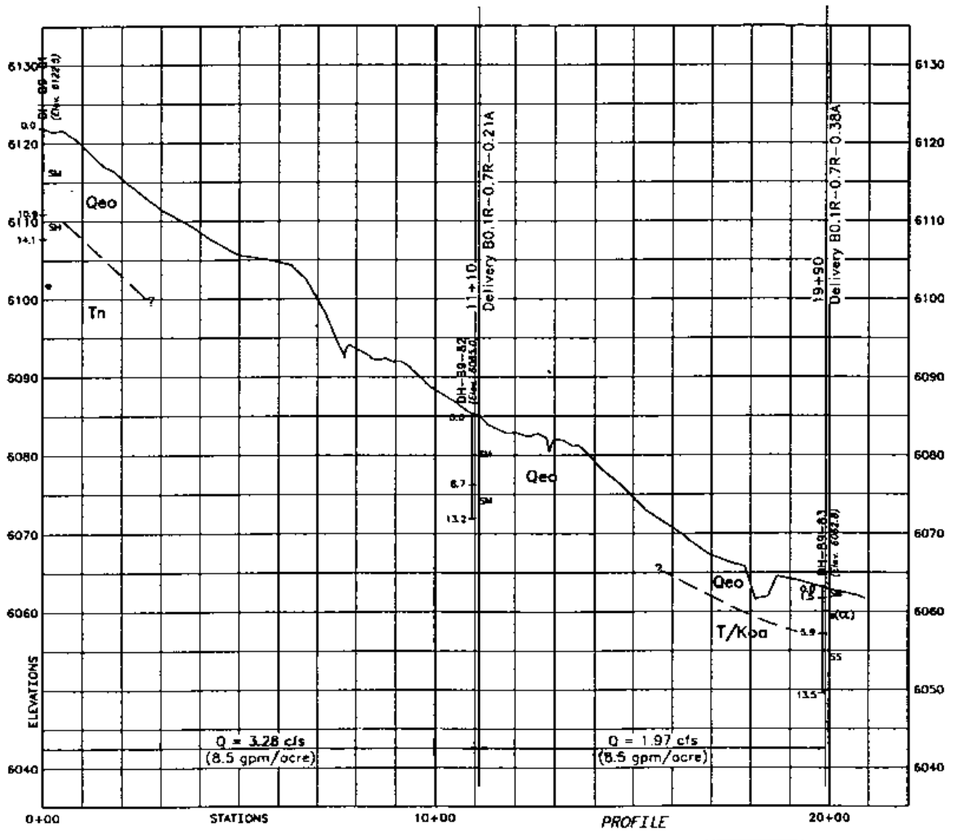
CADD SYSTEM	CADD FILENAME	DATE AND TIME PLOTTED
AutoCAD Rel. 14.01b FARMINGTON, NEW MEXICO	529-7796.DWG APRIL 23, 2001	MAY 3, 2001 13:38

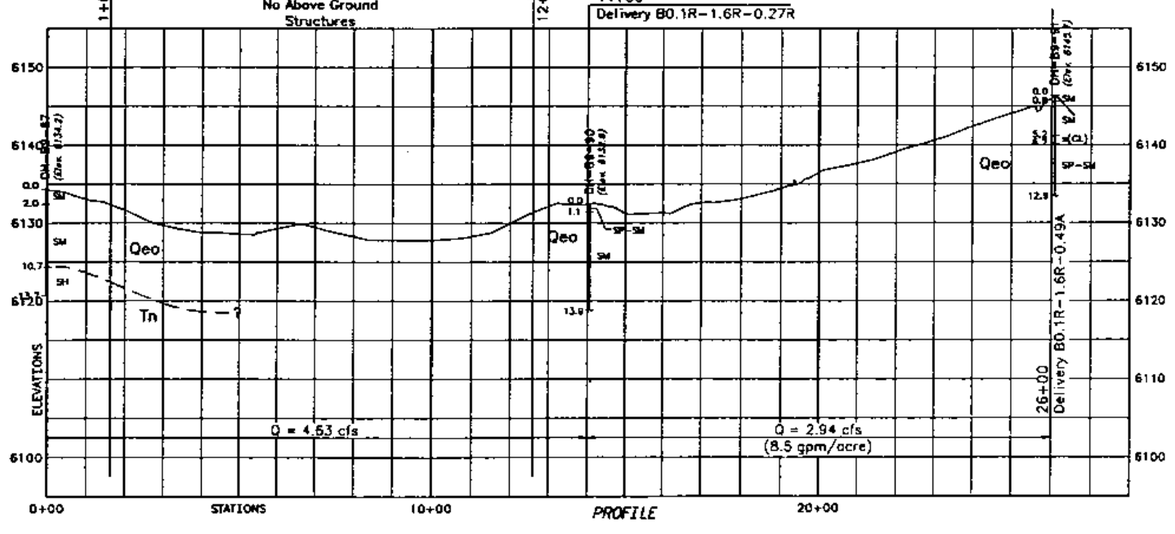
809-529-7796





SCALE OF FEET
200 0 200 400 600





NOTES

Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 2 Feet.
BLM Datum.

Q's shown on profile are based on 8 gpm/acre unless otherwise noted.

For General Geologic Legend, Explanation, and Notes, see Drawing No. 809-529-7820

For Further Detail see the Specific Drill Hole Log and the Station to Station Geology Sections.

DESIGNED S/JED
TECHNICAL APPROVAL S/JAMES A. GATES
SUBMITTED S/LES W. STONE
APPROVED S/MICHAEL R. DEMING

ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT – NEW MEXICO

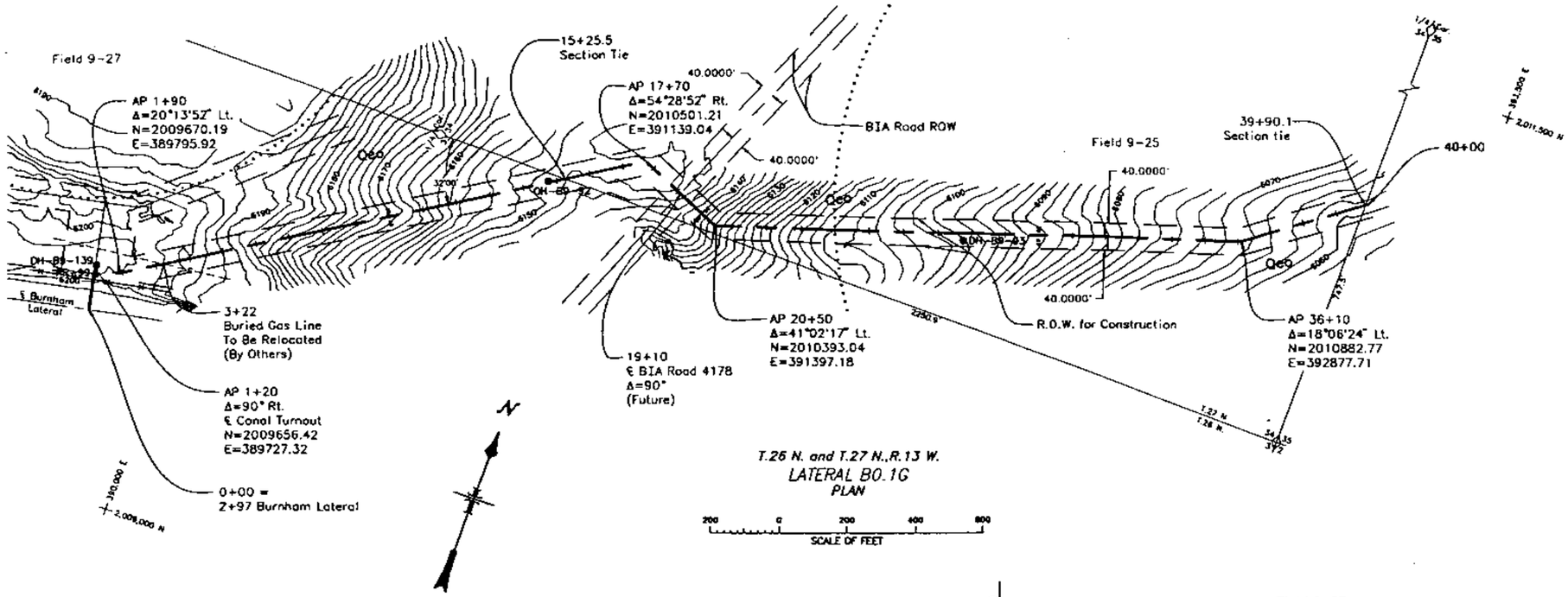
BLOCK 9 – STAGE 2

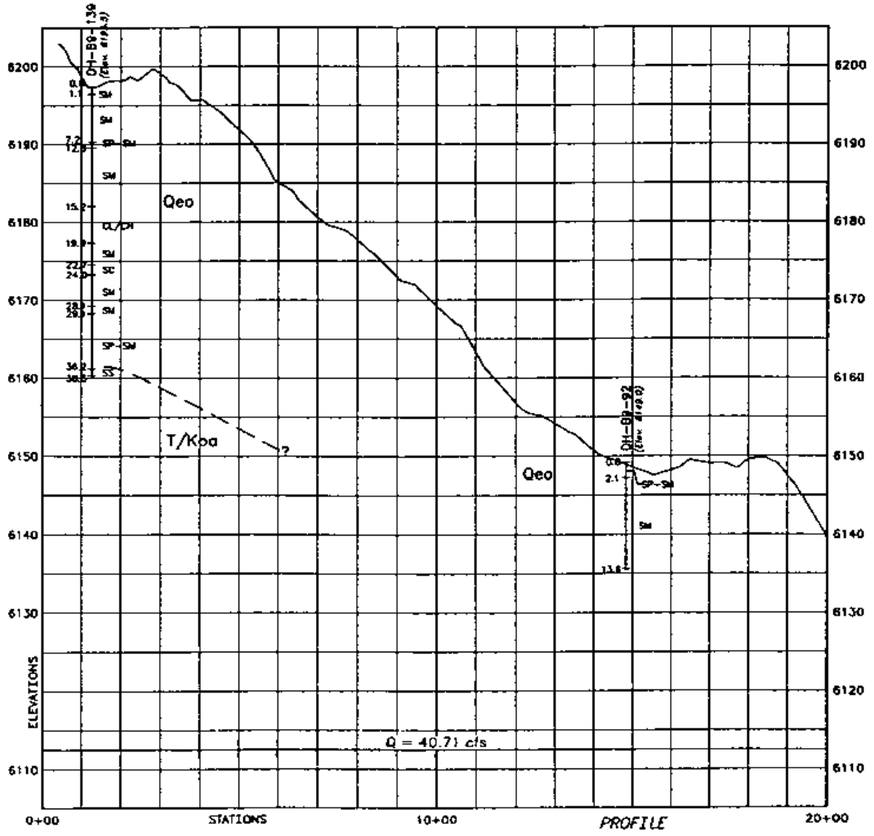
LATERAL B0.1R-0.7R
LATERAL B0.1R-1.6R
PLANS AND PROFILES

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

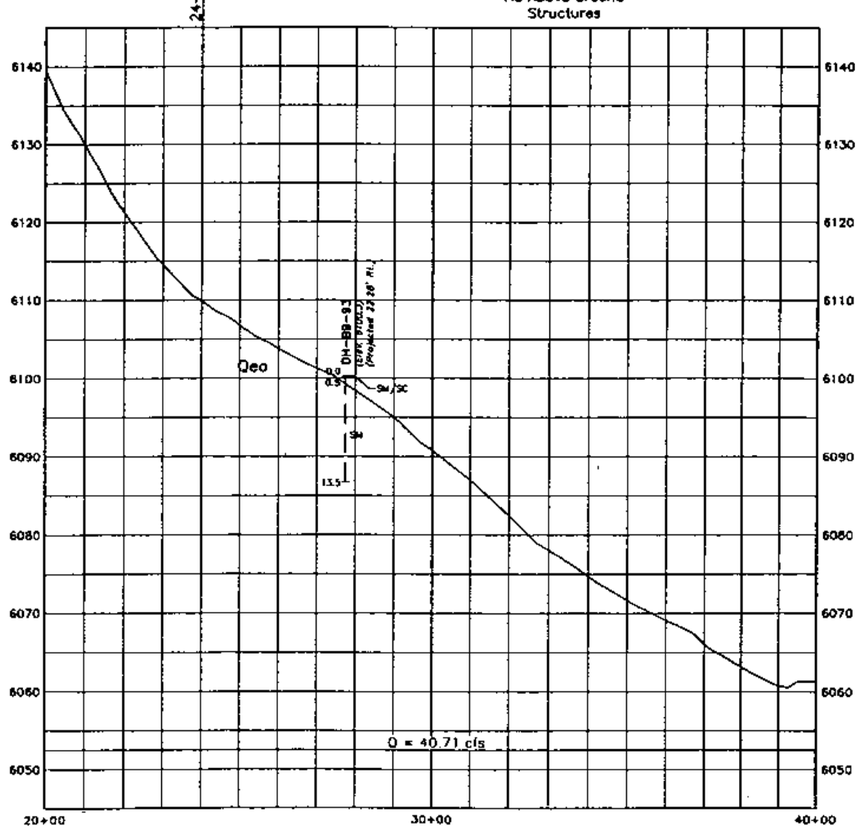
CADD SYSTEM	CADD FILENAME	DATE AND TIME PLOTTED
AutoCAD Rel. 14.01h FARMINGTON, NEW MEXICO	529-7797.DWG APRIL 19, 2001	MAY 3, 2001 13:39

809-529-7797





PROFILE



NOTES

Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 2 Feet.
BLM Datum.

Q's shown on profile are based on
8 gpm/acre unless otherwise noted.

For General Geologic Legend, Explanation, and Notes, see Drawing No. 809-529-7820

For Further Detail see the Specific Drill Hole Log and the Station to Station Geology Sections.

Drill hole PR-99 not shown on Profile.

GEOLOGY Date 4-3-01
TECHNICAL APPROVAL S/JAMES A. GATES
SUBMITTED S/LES W. STONE
APPROVED S/MICHAEL R. DEMING

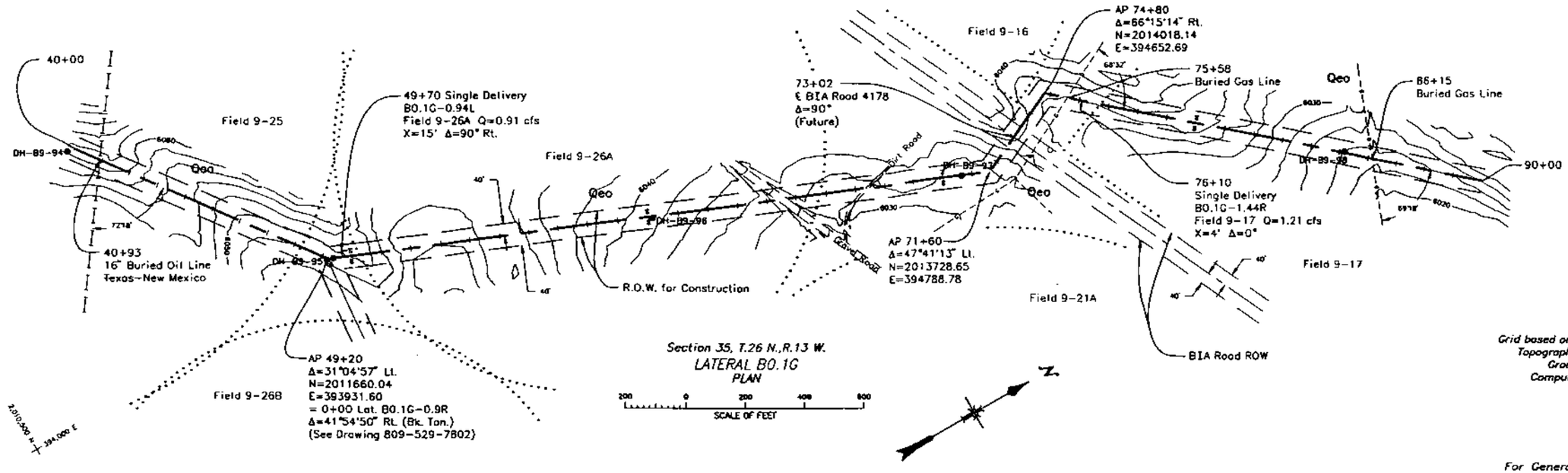
ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT - NEW MEXICO

BLOCK 9 - STAGE 2
LATERAL B0.1G
BEGINNING TO STATION 40+00
PLAN AND PROFILE

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

CADD SYSTEM AutoCAD Rel. 14.01b | CADD FILENAME 529-7798.DWG | DATE AND TIME PLOTTED MAY 3 2001 13:40
FARMINGTON, NEW MEXICO APRIL 25, 2001 | 809-529-7798



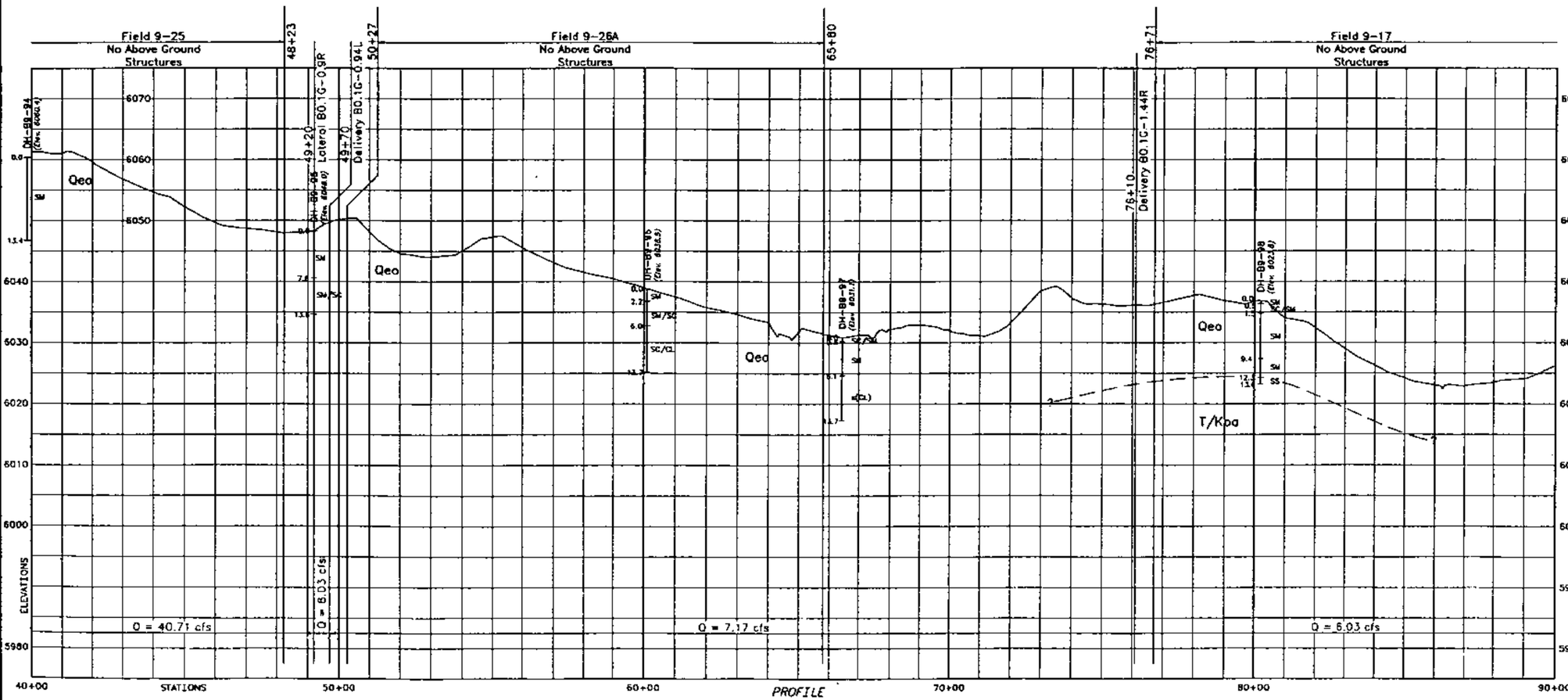
NOTES

Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 2 Feet.
BLM Datum.

Q's shown on profile are based on 8 gpm/acre unless otherwise noted.

For General Geologic Legend, Explanation, and Notes, see Drawing No. 809-529-7820

For Further Detail see the Specific Drill Hole Log and the Station to Station Geology Sections.



TECHNICAL APPROVAL S/JAMES A. GATES — GEOLOGY
SUBMITTED S/LES W. STONE
APPROVED S/MICHAEL R. DEMING

ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT - NEW MEXICO

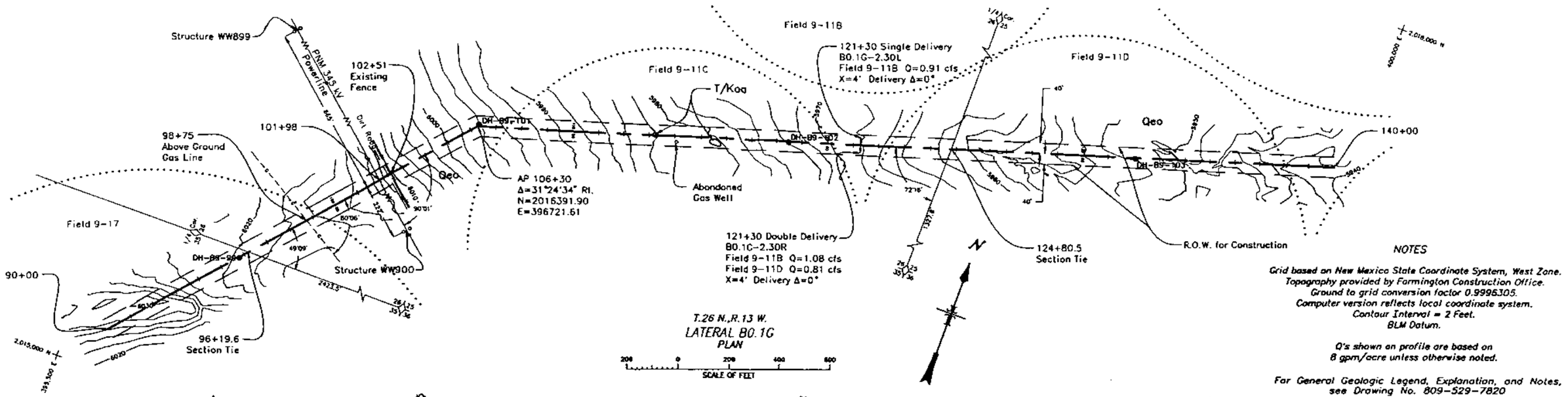
BLOCK 9 - STAGE 2

LATERAL B0.1G
STATION 40+00 TO 90+00
PLAN AND PROFILE

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

CADD SYSTEM	CADD FILENAME	DATE AND TIME PLOTTED
AutoCAD Rel. 14.01b FARMINGTON, NEW MEXICO	529-7799.DWG APRIL 25, 2001	MAY 3, 2001 13:40

809-529-7799



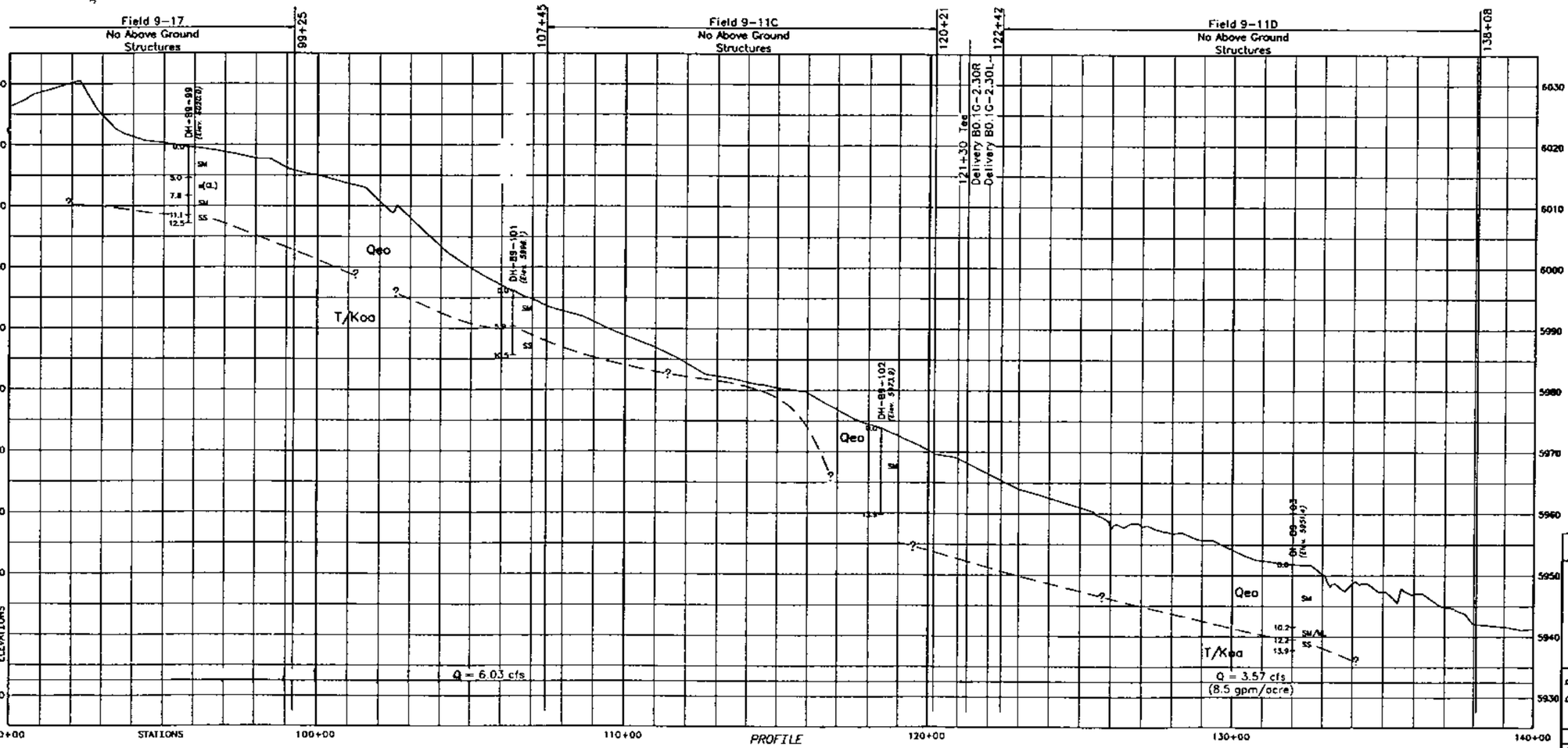
NOTES

Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 2 Feet.
BLM Datum.

Q's shown on profile are based on 8 gpm/acre unless otherwise noted.

For General Geologic Legend, Explanation, and Notes, see Drawing No. 809-529-7820

For Further Detail see the Specific Drill Hole Log and the Station to Station Geology Sections.



GEOLOGY
TECHNICAL APPROVAL S/JAMES A. CATES
SUBMITTED S/LES W. STONE
APPROVED S/MICHAEL R. DEMING

ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT - NEW MEXICO

BLOCK 9 - STAGE 2

LATERAL B0.1G

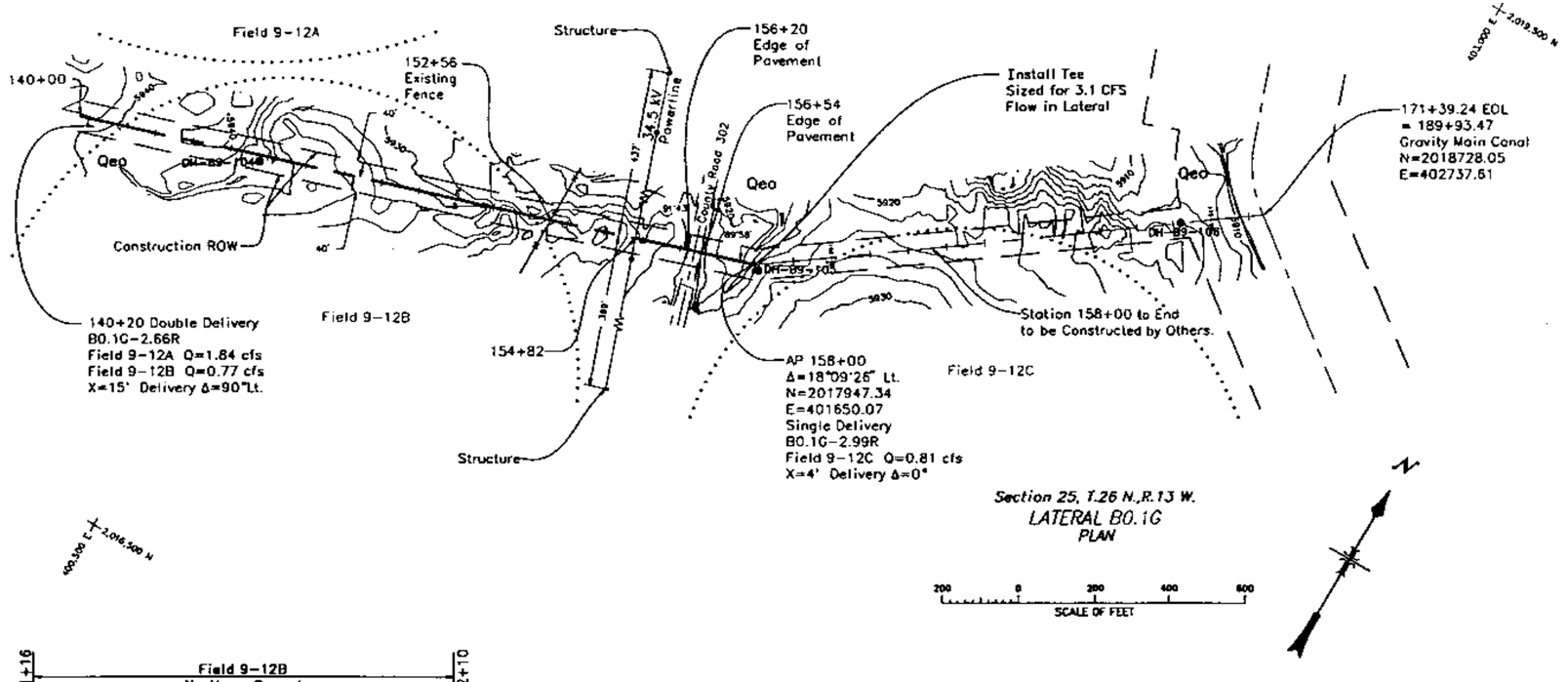
STATION 90+00 TO 140+00

PLAN AND PROFILE

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

CADD SYSTEM	CADD FILENAME	DATE AND TIME PLOTTED
AutoCAD Rel. 14.01h FARMINGTON, NEW MEXICO	529-7800.DWG APRIL 25, 2001	MAY 3, 2001 13:42

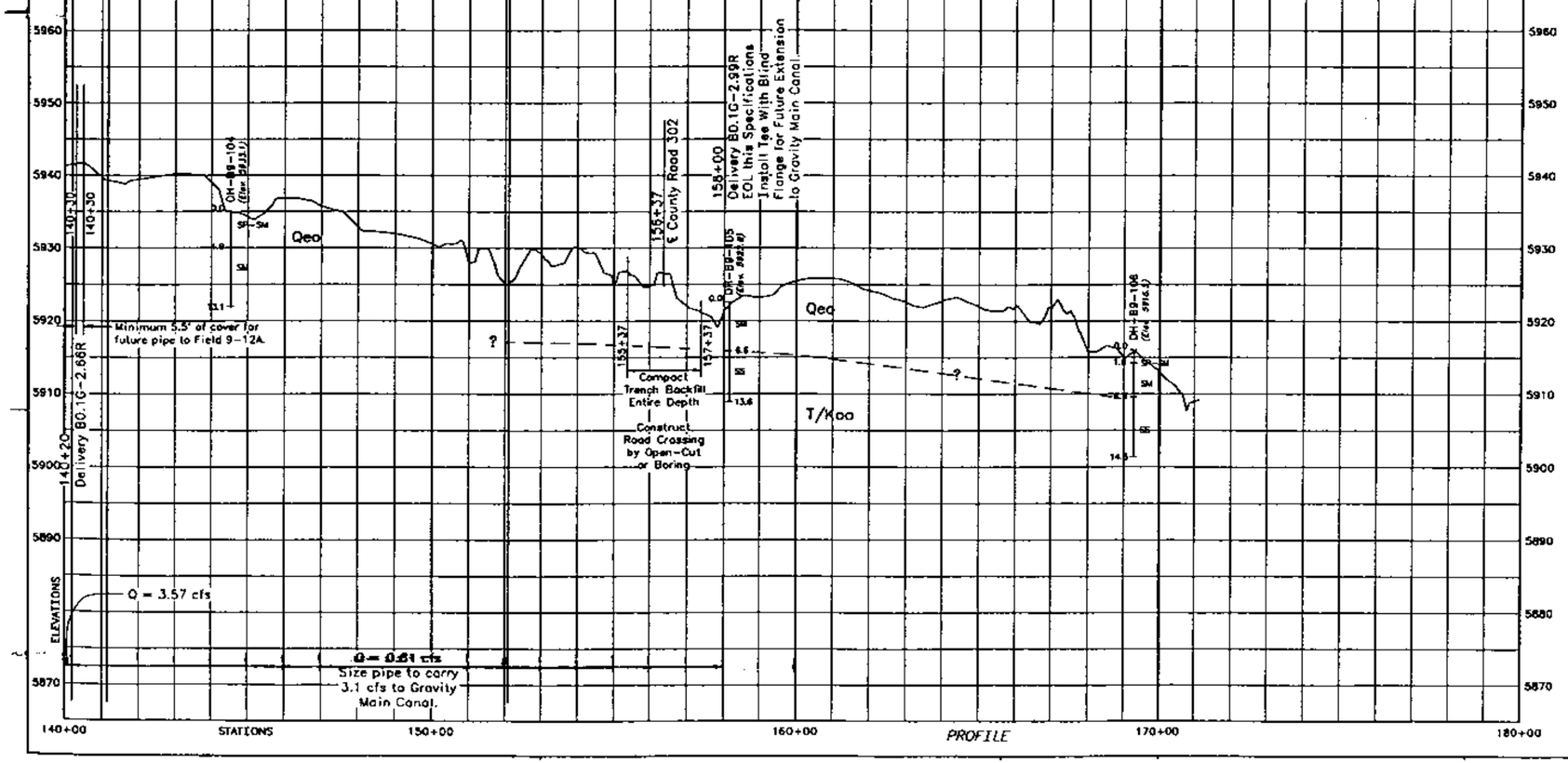
809-529-7800



Section 25, T.26 N.,R.13 W.

LATERAL B0.1G

PLAN



NOTES

Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 2 Feet.
BLM Datum.

Q's shown on profile are based on 8.5 gpm/acre.

For General Geologic Legend, Explanation, and Notes, see Drawing No. 809-529-7820

For Further Detail see the Specific Drill Hole Log and the Station to Station Geology Sections.

DESIGNED 4-2-01
TECHNICAL APPROVAL S/JAMES A. GATES
SUBMITTED S/LES W. STONE
APPROVED S/MICHAEL R. DEMING

ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT - NEW MEXICO

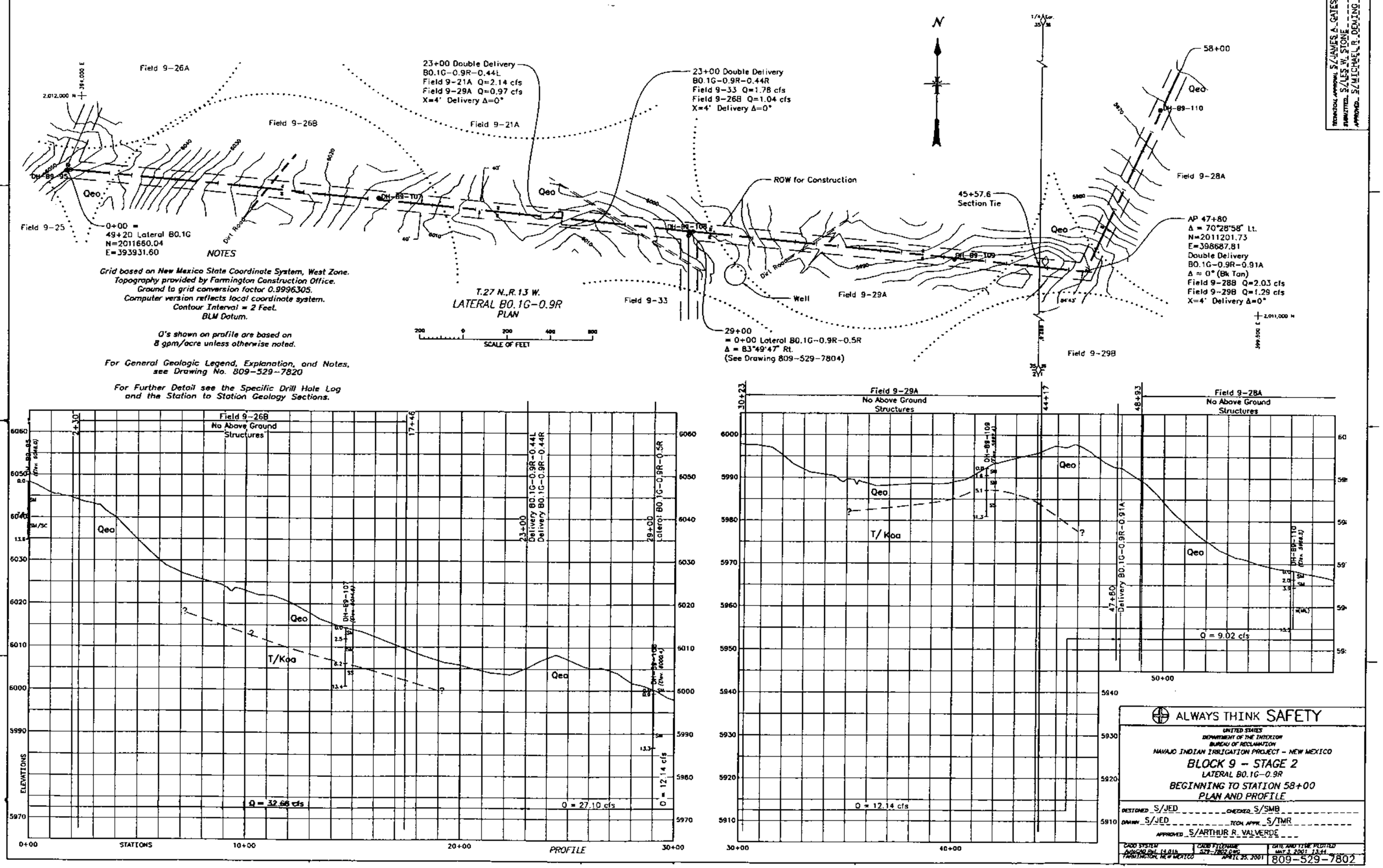
BLOCK 9 - STAGE 2

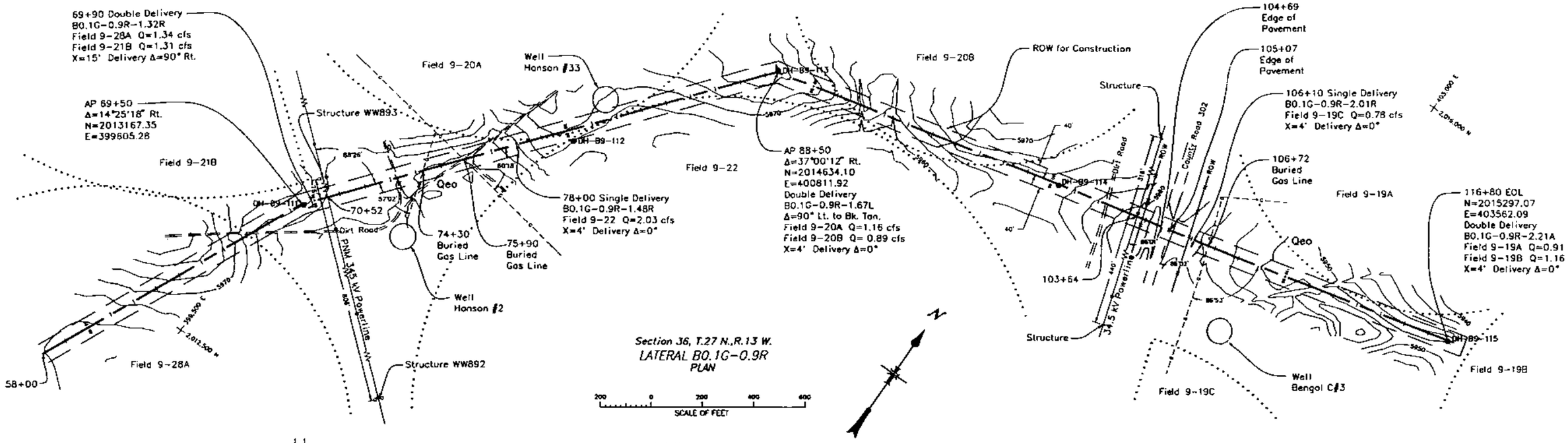
LATERAL B0.1G

STATION 140+00 TO END

PLAN AND PROFILE

DESIGNED S/JED	CHECKED S/SMB
DRAWN S/JED	TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE	
CADD SYSTEM MicroCAD Rel. 14.01h FARMINGTON, NEW MEXICO	CADD FILENAME 529-7801.DWG APRIL 25, 2001
DATE AND TIME PLOTTED MAY 3, 2001 12:43	809-529-7801


Field 9-26A
Field 9-26B
Field 9-21A
Field 9-25
Field 9-33
Field 9-29A
Field 9-29B
Field 9-28A
23+00 Double Delivery
B0.1G-0.9R-0.44L
Field 9-21A Q=2.14 cfs
Field 9-29A Q=0.97 cfs
X=4' Delivery Δ=0°
23+00 Double Delivery
B0.1G-0.9R-0.44R
Field 9-33 Q=1.78 cfs
Field 9-26B Q=1.04 cfs
X=4' Delivery Δ=0°
ROW for Construction
45+57.6
Section Tie
58+00
AP 47+80
Δ = 70°28'58" Lt.
N=2011201.73
E=398687.81
Double Delivery
B0.1G-0.9R-0.91A
Δ = 0° (Bk Tan)
Field 9-28B Q=2.03 cfs
Field 9-29B Q=1.29 cfs
X=4' Delivery Δ=0°
0+00 =
49+20 Lateral B0.1G
N=2011660.04
E=393931.60
Qeo
Dirt Road
Well
T.27 N.,R.13 W.
LATERAL B0.1G-0.9R
PLAN
SCALE OF FEET
29+00
= 0+00 Lateral B0.1G-0.9R-0.5R
Δ = 83°49'47" Rt.
(See Drawing 809-529-7804)
NOTES
Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 2 Feet.
BLM Datum.
0's shown on profile are based on
8 gpm/acre unless otherwise noted.
For General Geologic Legend, Explanation, and Notes,
see Drawing No. 809-529-7820
For Further Detail see the Specific Drill Hole Log
and the Station to Station Geology Sections.
Field 9-26B
No Above Ground
Structures
Field 9-29A
No Above Ground
Structures
Field 9-28A
No Above Ground
Structures
Q = 32.68 cfs
Q = 27.10 cfs
Q = 12.14 cfs
Q = 9.02 cfs
T/Koa
ELEVATIONS
STATIONS
PROFILE
ALWAYS THINK SAFETY
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT - NEW MEXICO
BLOCK 9 - STAGE 2
LATERAL B0.1G-0.9R
BEGINNING TO STATION 58+00
PLAN AND PROFILE
DESIGNED S/JED
CHECKED S/SMB
DRAWN S/JED
TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE
CADD SYSTEM
CADD FILENAME
DATE AND TIME PLOTTED
FARMINGTON, NEW MEXICO
APRIL 25, 2001
809-529-7802



NOTES

Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9998305.
Computer version reflects local coordinate system.
Contour Interval = 2 Feet.
BLM Datum.

Q's shown on profile are based on 8 gpm/acre unless otherwise noted.

For General Geologic Legend, Explanation, and Notes, see Drawing No. 809-529-7820

For Further Detail see the Specific Drill Hole Log and the Station to Station Geology Sections.

GEOLOGY
SUBMITTED S/LES W. STONE
RECOMMENDED APPROVAL S/JAMES A. GATES
APPROVED S/MICHAEL R. DEMING

ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT - NEW MEXICO

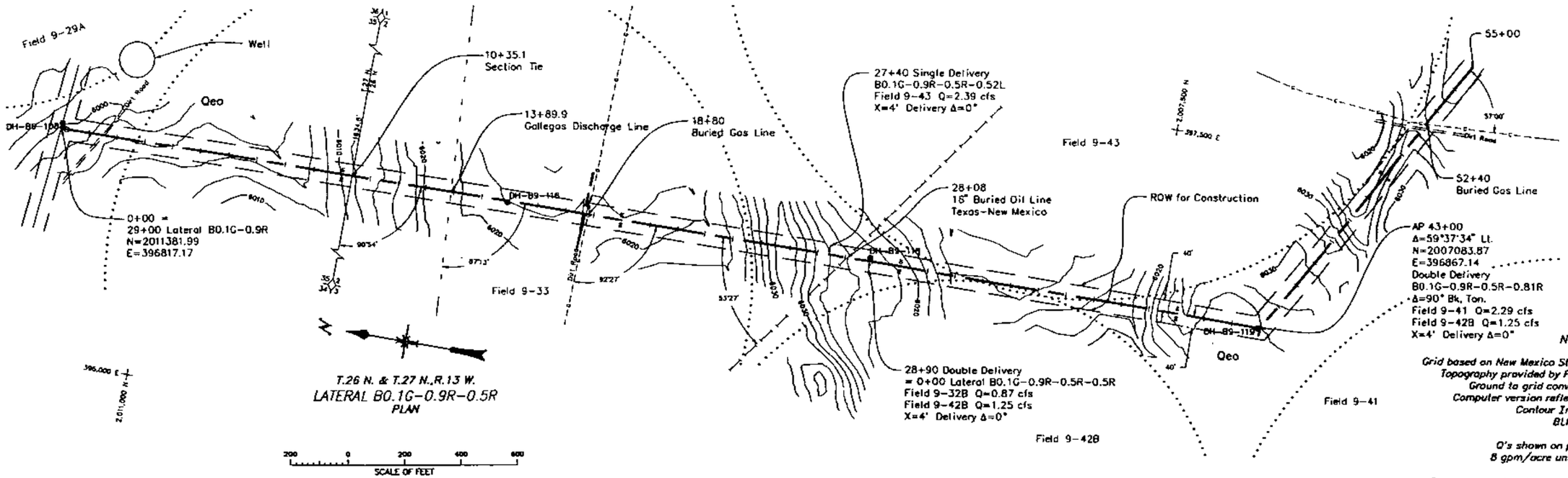
BLOCK 9 - STAGE 2

LATERAL B0.1G-0.9R
STATION 58+00 TO END
PLAN AND PROFILE

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

CADD SYSTEM	CADD FILENAME	DATE AND TIME PLOTTED
AutoCAD Rel. 14.01h FARMINGTON, NEW MEXICO	529-7803.DWG APRIL 25, 2001	MAY 8, 2001 13:49

809-529-7803



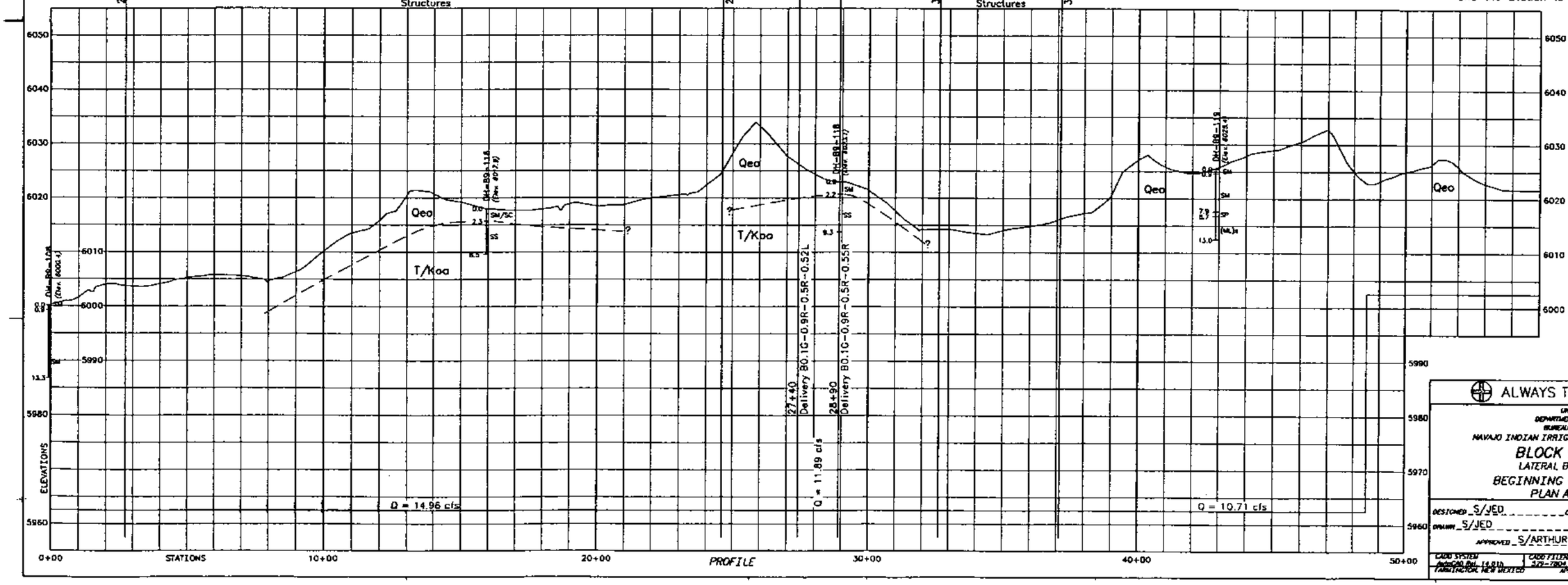
NOTES

Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 2 Feet.
BLM Datum.

Q's shown on profile are based on 8 gpm/acre unless otherwise noted.

For General Geologic Legend, Explanation, and Notes, see Drawing No. 809-529-7820

For Further Detail see the Specific Drill Hole Log and the Station to Station Geology Sections.



TECHNICAL APPROVAL S/JAMES A. GATES
SUBMITTED S/LES W. STONE
APPROVED S/MICHAEL R. DEMING

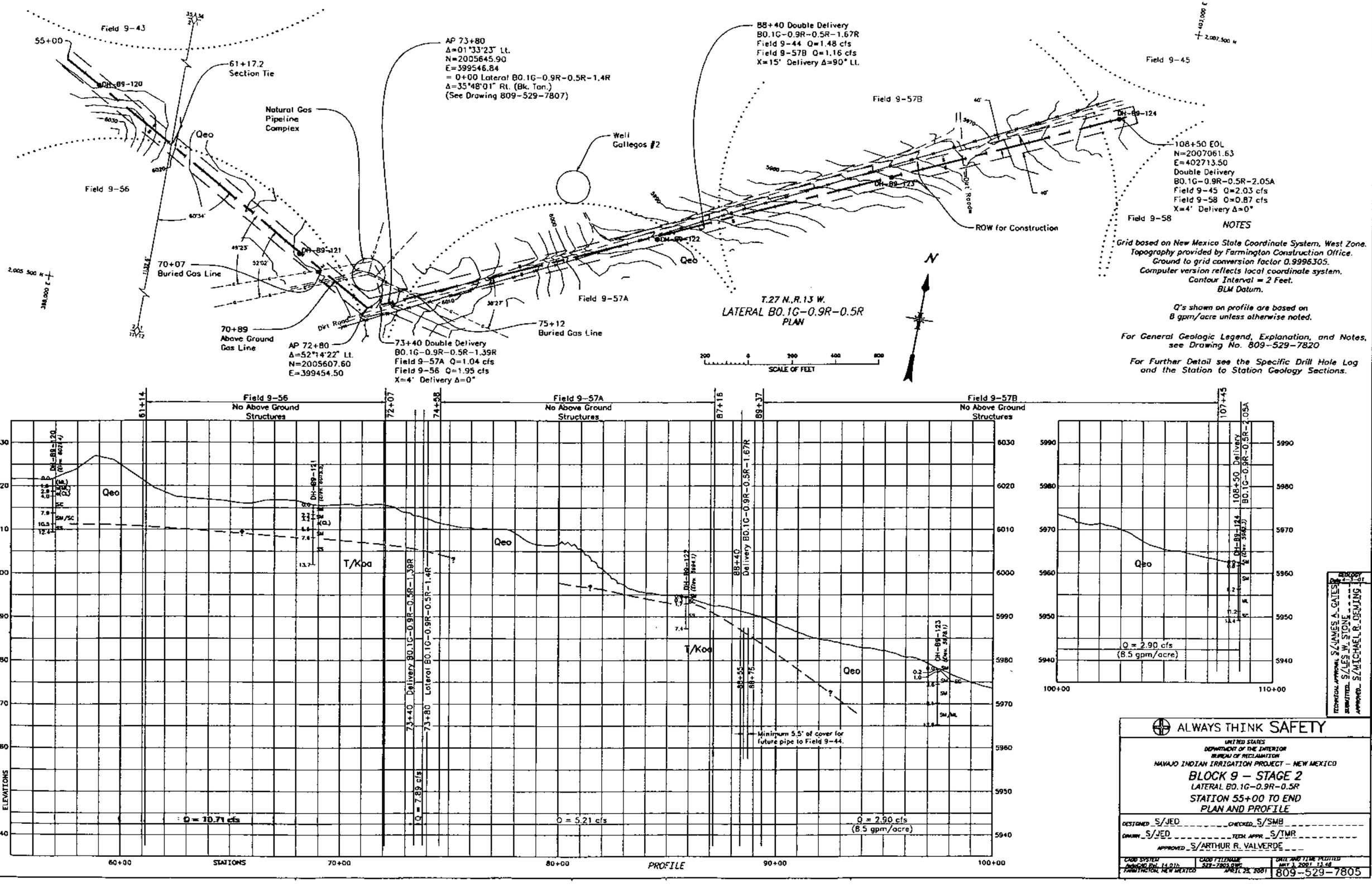
ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT – NEW MEXICO

BLOCK 9 – STAGE 2
LATERAL B0.1G-0.9R-0.5R
BEGINNING TO STATION 55+00
PLAN AND PROFILE

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

CADD SYSTEM	CADD FILENAME	DATE AND TIME PLOTTED
AutoCAD Rel. 14.01b	529-7804.DWG	MAY 3 2001 13:46
FARMINGTON, NEW MEXICO	APRIL 25, 2001	809-529-7804



TECHNICAL APPROVAL S/JAMES A. GATES
SUBMITTED S/LES W. STONE
APPROVED S/MICHAEL R. DEMING

ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT – NEW MEXICO

BLOCK 9 – STAGE 2

LATERAL B0.1G-0.9R-0.5R

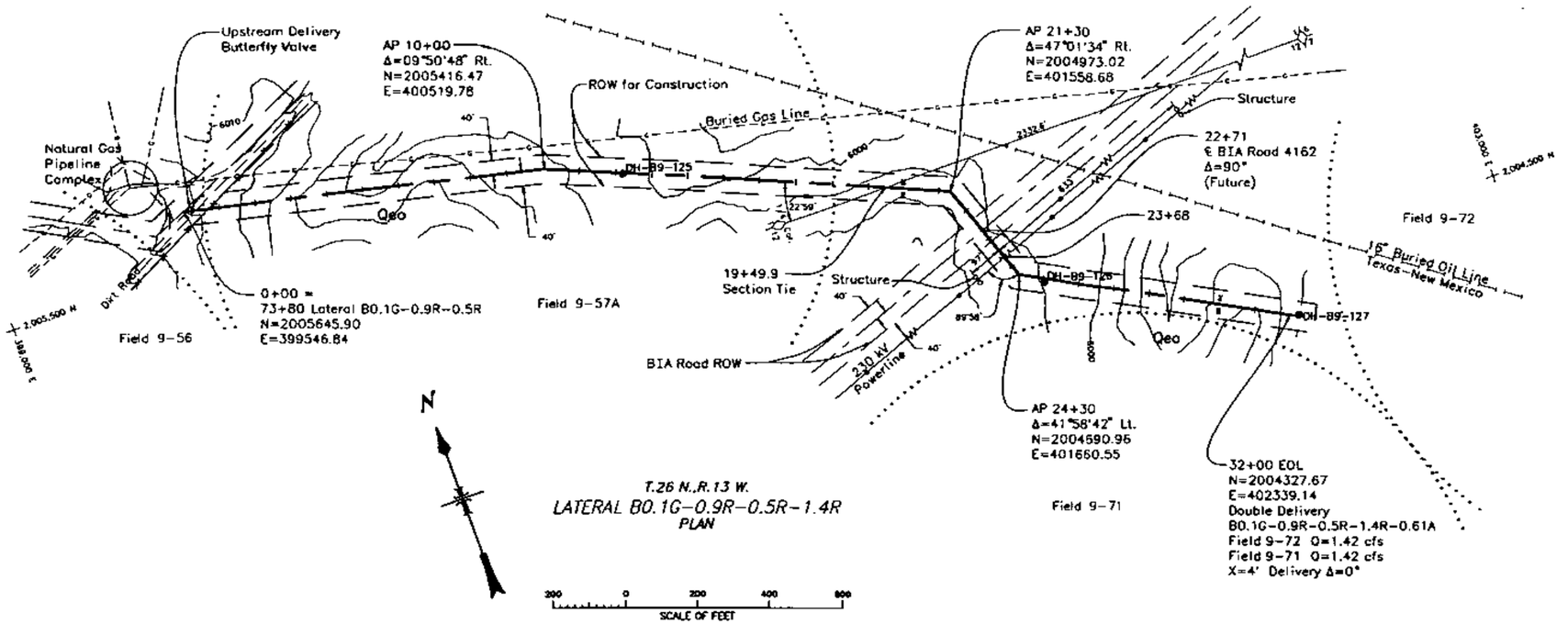
STATION 55+00 TO END

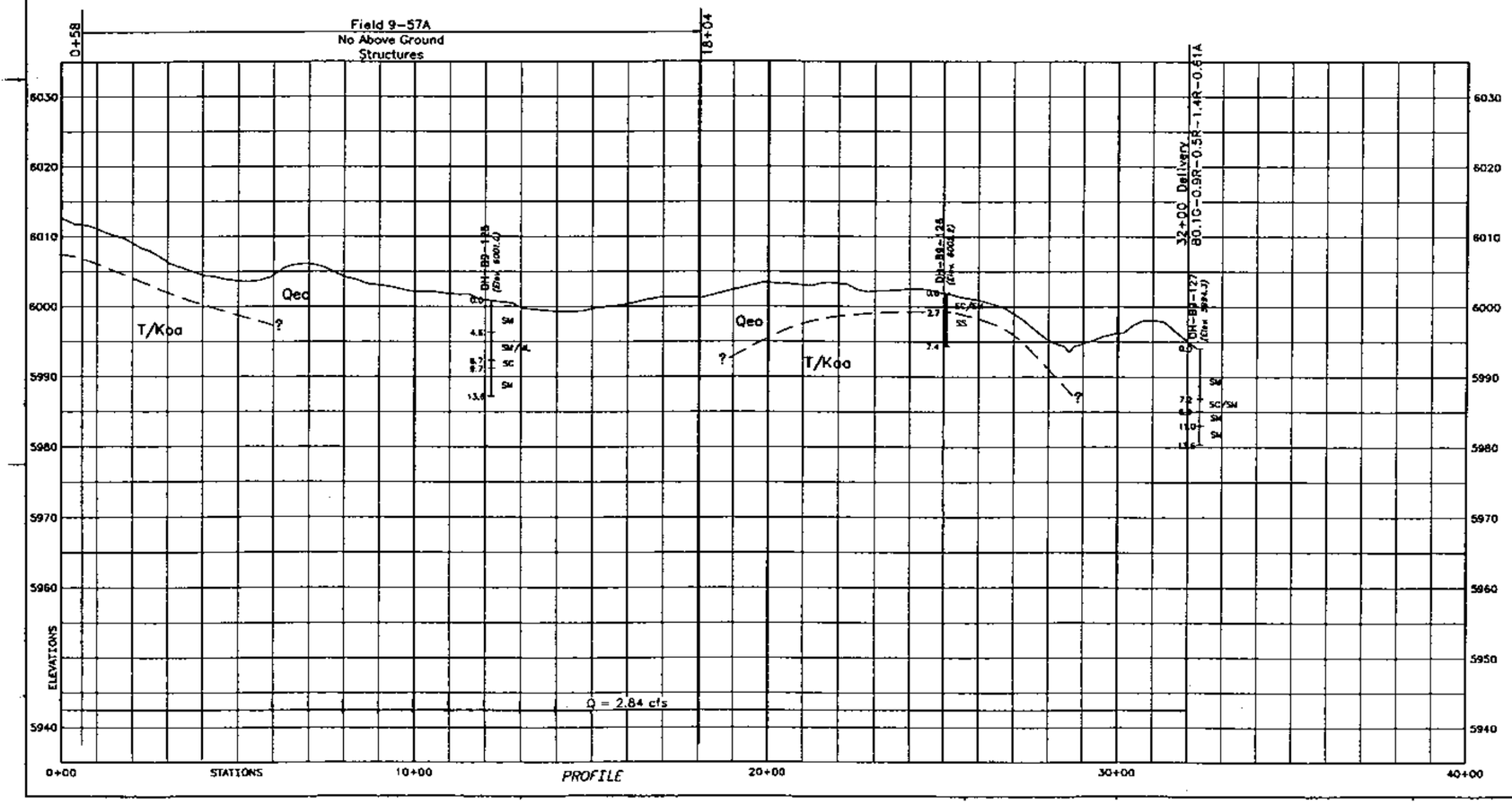
PLAN AND PROFILE

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

CADD SYSTEM	CADD FILENAME	DATE AND TIME PLOTTED
AutoCAD Rel. 14.01h FARMINGTON, NEW MEXICO	529-7805.DWG APRIL 25, 2001	MAY 3, 2001 13:46

809-529-7805





NOTES

Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 2 Feet.
BLM Datum.

Q's shown on profile are based on 8.5 gpm/acre.

For General Geologic Legend, Explanation, and Notes, see Drawing No. 809-529-7820

For Further Detail see the Specific Drill Hole Log and the Station to Station Geology Sections.

RECOMMENDED FOR APPROVAL: S/JAMES A. GATES
SUBMITTED: S/LES W. STONE
APPROVED: S/MICHAEL R. DEMING

ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT - NEW MEXICO

BLOCK 9 - STAGE 2

LATERAL B0.1G-0.9R-0.5R-1.4R

PLAN AND PROFILE

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

CADD SYSTEM	CADD FILENAME	DATE AND TIME PLOTTED
AutoCAD Rel. 14.01h FARMINGTON, NEW MEXICO	529-7806.dwg APRIL 25, 2001	MAY 3, 2001 12:49

809-529-7806

AP 10+70
Δ=41°23'34" Lt.
N=2004583.74
E=390566.20

AP 8+70
Δ=40°48'56" Rt.
N=2004707.65
E=390409.30

Field 9-55A

17+81
Buried Gas
Line

Qeo

AP 23+50
Δ=66°54'11" Rt.
N=2004583.74
E=391843.86
= 0+00 Lateral B0.9L-0.4L
Δ=76°37'57" Lt. (Bk. Tan.)
(See Drawing 809-529-7810)

Field 9-55B

28+31
Above Ground
Gas Line

35+10
Above Ground
Gas Line

Well
Gallegos #2

AP 37+50
Δ=64°27'04" Rt.
N=2003572.93
E=392640.64
Double Delivery
B0.9L-0.71A
Δ=0° (Bk. Tan.)
Field 9-70B Q=0.91 cfs
Field 9-70A Q=1.16 cfs
X=4' Delivery Δ=0°

Field 9-69A

6+50 Double Delivery
B0.9L-0.12L
Field 9-40 Q=0.70 cfs
Field 9-59A Q=2.14 cfs
X=4' Delivery Δ=0°

27+00 Double Delivery
B0.9L-0.51L
Field 9-55B Q=1.59 cfs
Field 9-69A Q=1.53 cfs
X=15' Δ=90° Rt.

28+71
Buried Gas
Line

AP 33+50
Δ=36°35'41" Lt.
N=2003755.79
E=392285.06

Field 9-70A

40+00

36+40
Buried Gas
Line

Well
Southland #5

ROW for Construction

13.8 kV Powerline

Dirt Road

-0+50 =
48+60 Burnham
Lateral, Reach 1
N=2004665.77
E=389490.60

AP 1+00
Δ=00°34'38" Rt.
N=2004673.86
E=389640.33

Section 3, T.26 N., R.13 W.
LATERAL B0.9L
PLAN

SCALE OF FEET

NOTES

Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 2 Feet.
BLM Datum.

Q's shown on profile are based on 8 gpm/acre unless otherwise noted.

For General Geologic Legend, Explanation, and Notes, see Drawing No. 809-529-7820

For Further Detail see the Specific Drill Hole Log and the Station to Station Geology Sections.

Field 9-69A
No Above Ground Structures

Field 9-70A
No Above Ground Structures

6+50 Delivery B0.9L-0.12L

23+50 Lateral B0.9L-0.4L

27+00 Delivery B0.9L-0.51L

37+50 Delivery B0.9L-0.71A

Minimum 5.5' of cover for future pipe to Field 9-69A

Qeo

Tn

Q = 19.42 cfs

Q = 46.75 cfs

Q = 16.75 cfs

Q = 11.51 cfs

Q = 8.57 cfs

Q = 6.62 cfs

ELEVATIONS

STATIONS

PROFILE

TECHNICAL APPROVAL S/JAMES A. GATES
SUBMITTED S/LES W. STONE
APPROVED S/MITCHAEL R. DEMING

ALWAYS THINK SAFETY

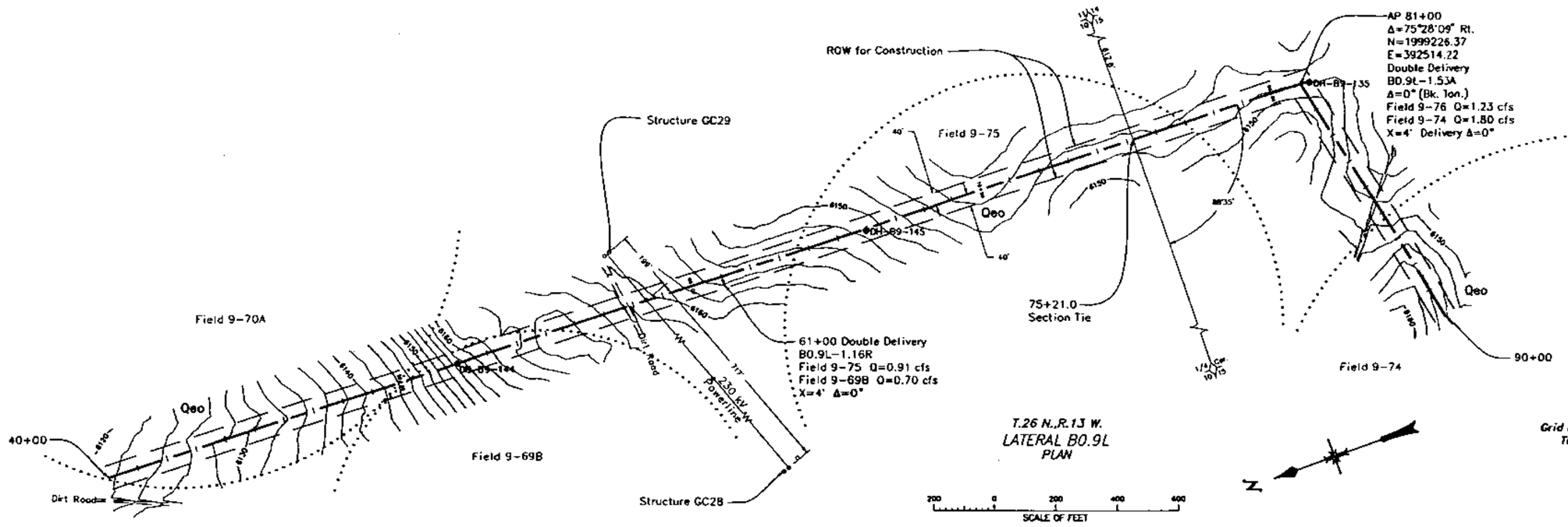
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT – NEW MEXICO

BLOCK 9 – STAGE 2
LATERAL B0.9L
BEGINNING TO STATION 40+00
PLAN AND PROFILE

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

CADD SYSTEM AutoCAD Rel. 14.01a FARMINGTON, NEW MEXICO
CADD FILENAME 529-7807.DWG
DATE AND TIME PLOTTED MAY 3, 2001 13:30
APRIL 25, 2001

809-529-7807



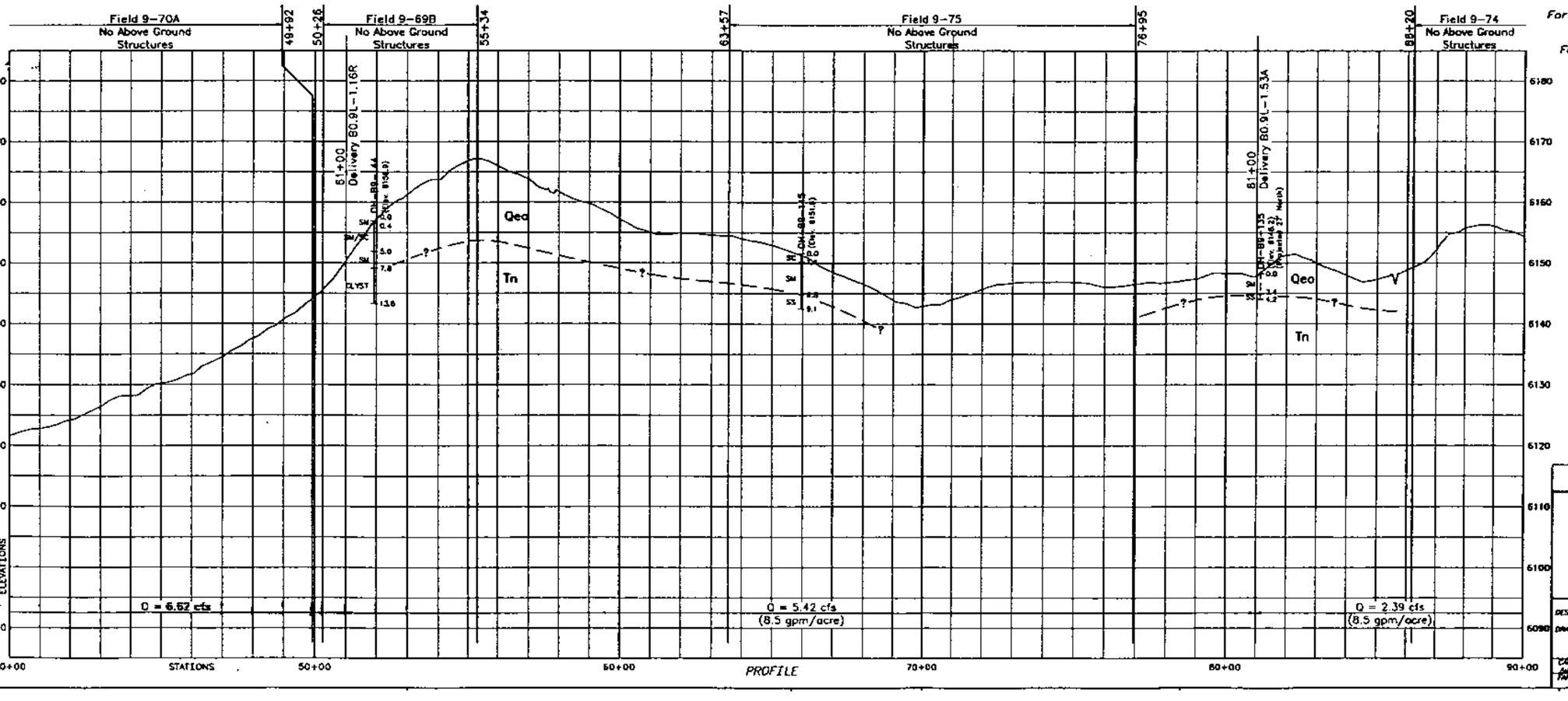
NOTES

Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 2 Feet.
BLM Datum.

Q's shown on profile are based on 8 gpm/acre unless otherwise noted.

For General Geologic Legend, Explanation, and Notes, see Drawing No. 809-529-7820

For Further Detail see the Specific Drill Hole Log and the Station to Station Geology Sections.



TECHNICAL APPROVAL S/JAMES A. GATES
SUBMITTED S/LES W. STONE
APPROVED S/MICHAEL R. DEMING

ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT – NEW MEXICO

BLOCK 9 – STAGE 2

LATERAL B0.9L

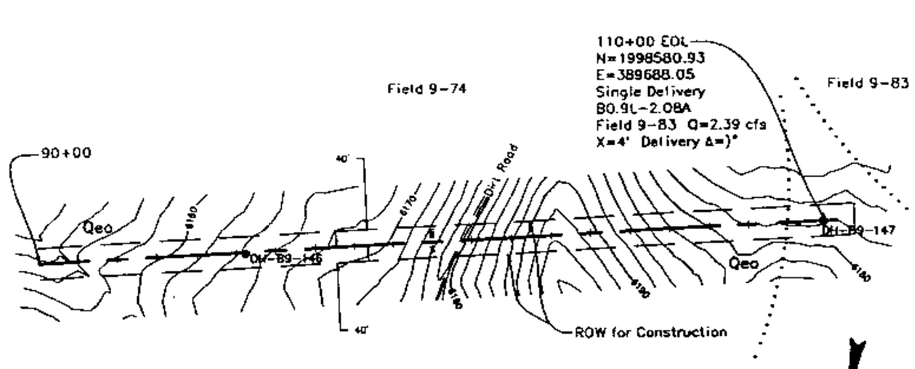
STATION 40+00 TO 90+00

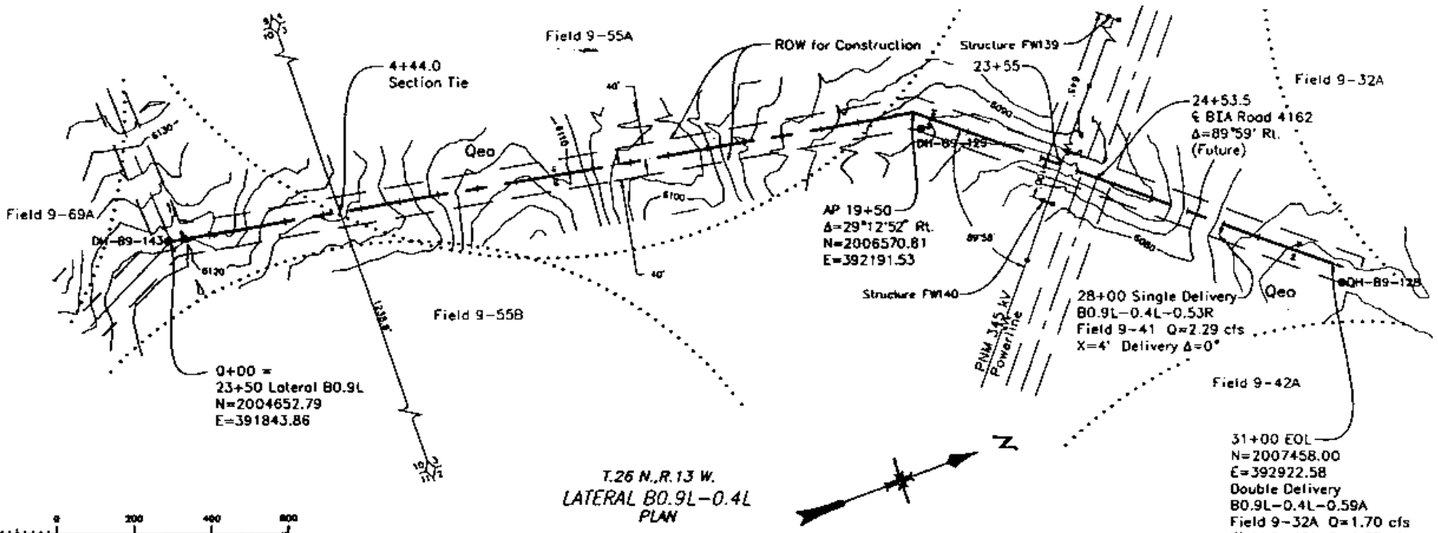
PLAN AND PROFILE

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

CADD SYSTEM MicroStation Ver. 14.01b FARMINGTON, NEW MEXICO
CADD FILENAME 529-7808.DWG
DATE AND TIME PLOTTED May 3, 2001 13:51
APRIL 25, 2001

809-529-7808

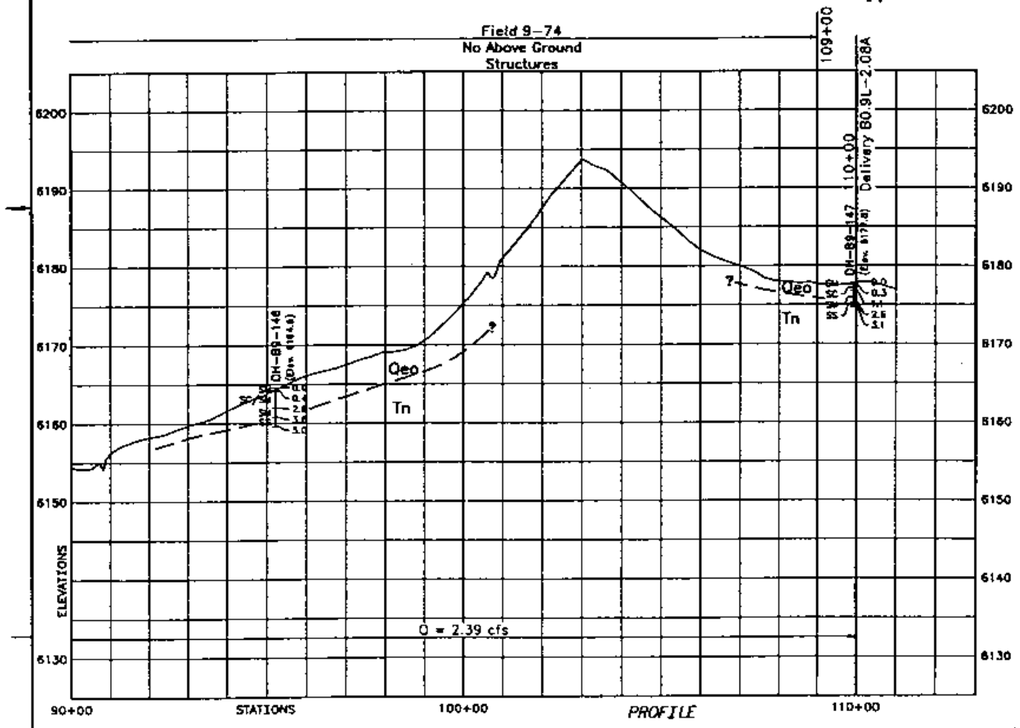


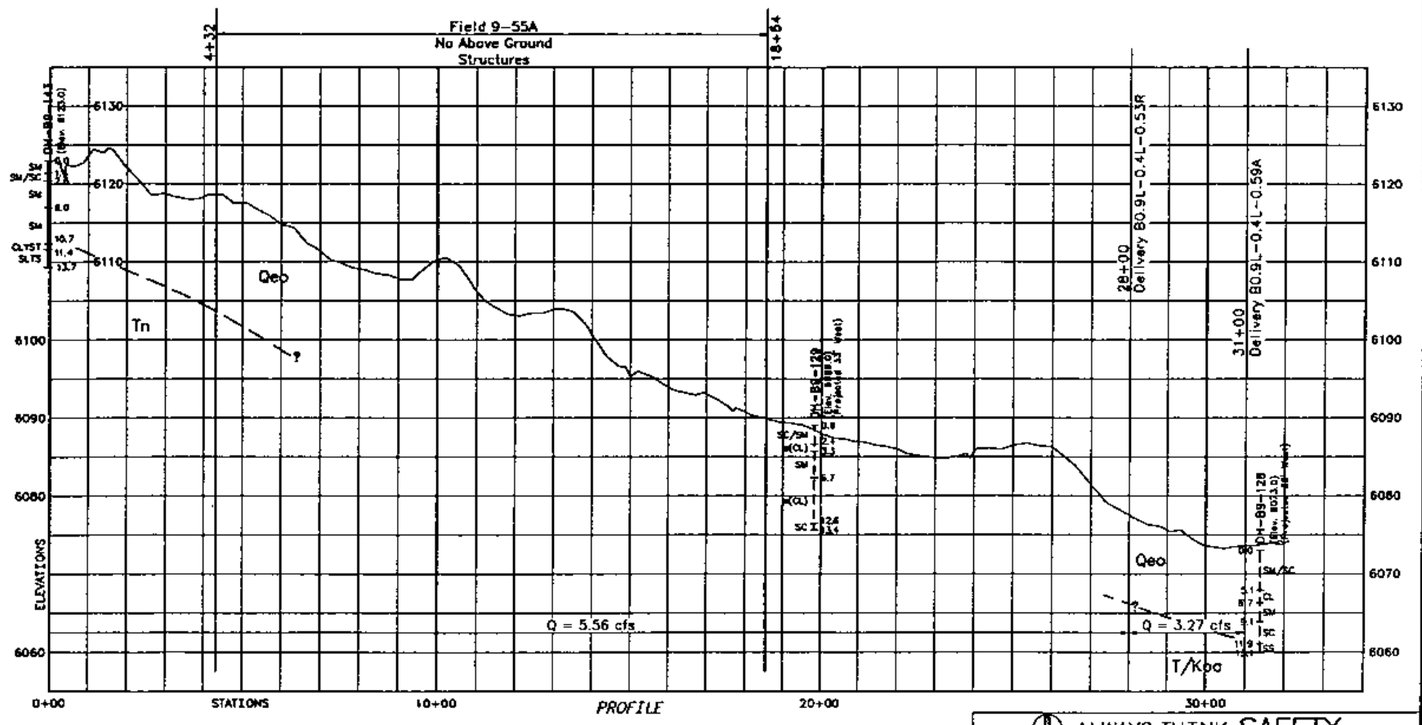


Section 15, T.26 N.,R.13 W.
LATERAL B0.9L
PLAN

T.26 N.,R.13 W.
LATERAL B0.9L-0.4L
PLAN

SCALE OF FEET





NOTES

Grid based on New Mexico State Coordinate System, West Zone.
Topography provided by Farmington Construction Office.
Ground to grid conversion factor 0.9996305.
Computer version reflects local coordinate system.
Contour Interval = 2 Feet.
BLM Datum.

Q's shown on profile are based on 8.5 gpm/acre.

For General Geologic Legend, Explanation, and Notes, see Drawing No. 809-529-7820

For Further Detail see the Specific Drill Hole Log and the Station to Station Geology Sections.

ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
NAVAJO INDIAN IRRIGATION PROJECT – NEW MEXICO

BLOCK 9 – STAGE 2

LATERAL B0.9L – STATION 90+00 TO END
LATERAL B0.9L-0.4L

PLANS AND PROFILES

DESIGNED S/JED CHECKED S/SMB
DRAWN S/JED TECH. APPR. S/TMR
APPROVED S/ARTHUR R. VALVERDE

GEOLOGY Date 1-3-01
TECHNICAL APPROVAL S/JAMES A. GATES
SUBMITTED S/LES W. STONE
APPROVED S/MICHAEL R. DEMING

CADD SYSTEM AutoCAD Rel. 14.01b
CADD FILENAME 529-7809.DWG
DATE AND TIME PLOTTED MAY 3, 2001 13:31
FARMINGTON, NEW MEXICO APRIL 25, 2001

809-529-7809