# NEW MEXICO STATE HIGHWAY & TRANSPORTATION DEPARTMENT

# CONSTRUCTION PLANS

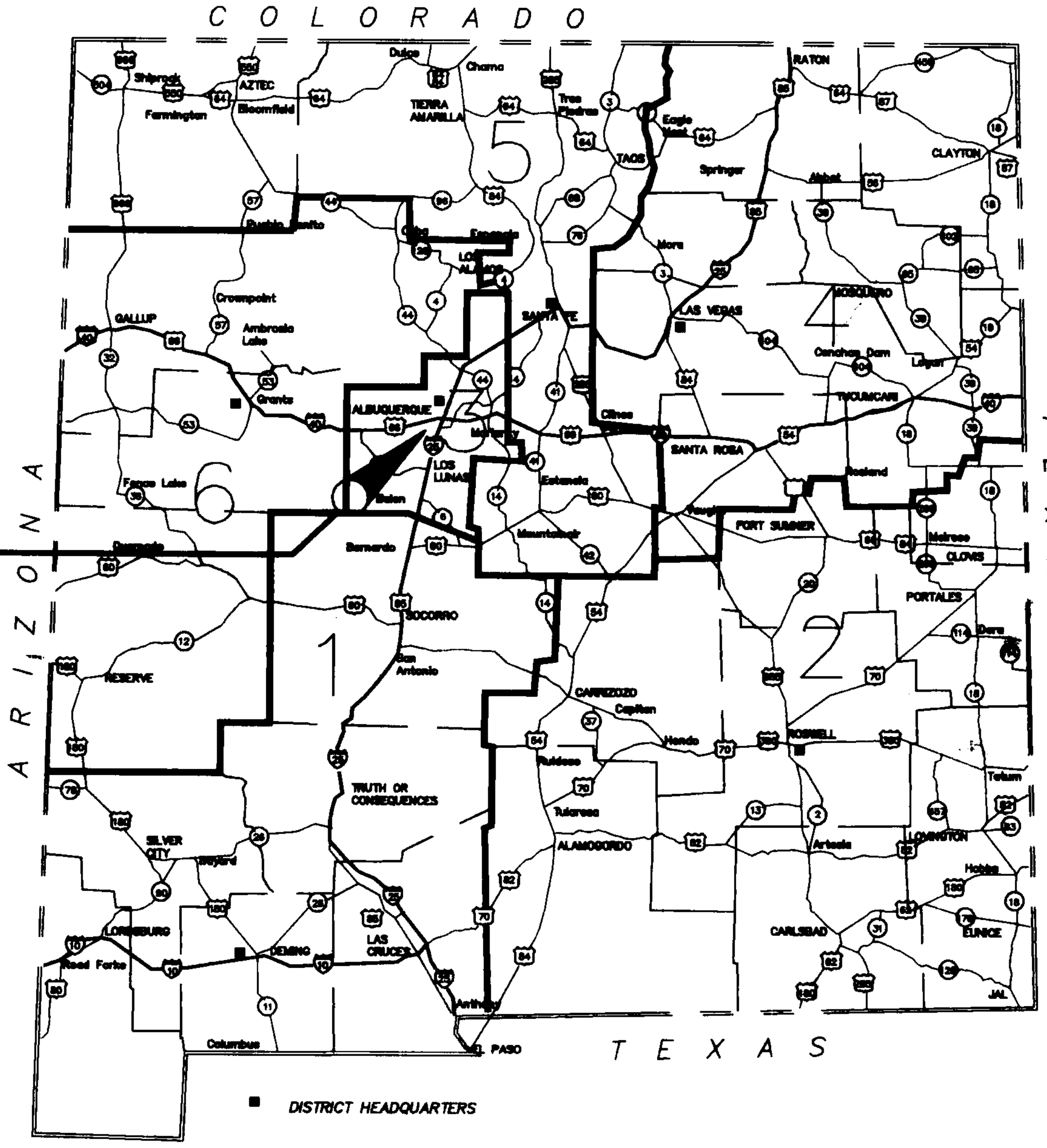
## SD-4008(206) PHASE II

## BERNALILLO COUNTY

### CONTROL NO. 2838

THE NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

SD-4008(206) PHASE II
RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO




BERNALILLO COUNTY STATE OF NEW MEXICO

APPROVED: *Charlie V Trujillo* DATE: *9-5-96*
DESIGN DIVISION DIRECTOR
P.E. NO. 8422

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

*[signature]* *9/9/97*
BERNALILLO COUNTY PUBLIC WORKS DATE

*Michael Wm. Malloy* *10/3/96*
GANNETT FLEMING WEST, INC. DATE

*City Proj No. 6141.92*

03-07-94
SRB-1-1.DWG (1"=1')

ENGR. FILE :

N.M. PROJECT NO. SD-4008(206) PHASE II SHEET 1-1

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SD-4008(206) | 1-2 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

## CONVENTIONAL SIGNS

STATE LINE
COUNTY LINE
LAND GRANT LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
CITY OR TOWN LIMIT
UNFENCED PROPERTY LINE
REFERENCE LINE & POINT
WIRE FENCE
RAIL FENCE
STONE OR ADOBE FENCE
PICKET FENCE
TELEPHONE - TELEGRAPH LINE
PROTECTION DITCH & DIKE
RETAINING WALL
ARROYO
RIVER OR CREEK
IRRIGATION DITCH
CONCRETE SIDEWALK
PRESENT TRAVELED ROAD
TRAIL
RAILROAD - TITLE PAGE
RAILROAD - PLAN PAGE

RIGHT OF WAY LINE
P.C. 54+85.1
P.T. 64+75.4
SURVEY CENTERLINE
RAILROAD CATTLEGUARD
HIGHWAY CATTLEGUARD
BRIDGE
CULVERT
SPILLWAY
HOUSE & VACANT
CHURCH CEMETERY SCHOOL
TOWN-TITLE PAGE
BLUFF OR HILL
SURFACING PIT
TREE
WINDMILL
ARTESIAN WELL
SECTION CORNER
BM 1235 BENCH MARK

BRIDGE
PIPE CULVERT
BOX CULVERT
VERTICAL CURVE
DATUM LINE GROUND ELEVATION 6112.7
DATUM LINE GRADE ELEVATION 6112.17
PP POWER POLE
TR TELEPHONE RISER
TELP TELEPHONE RISER
GM GAS METER
WV WATER VALVE
WM WATER METER
MB MAIL BOX

## BOOK NUMBERS

89-01
89-04
89-09
89-11
89-17
92-5
92-6

SCALES { PLAN 1"= 50' ; PROFILE 1"= 10' VERT.; 1'=50' HORIZ. ; VICINITY MAP APPROX. 1" = 2 MILES

## SHIPPING POINTS

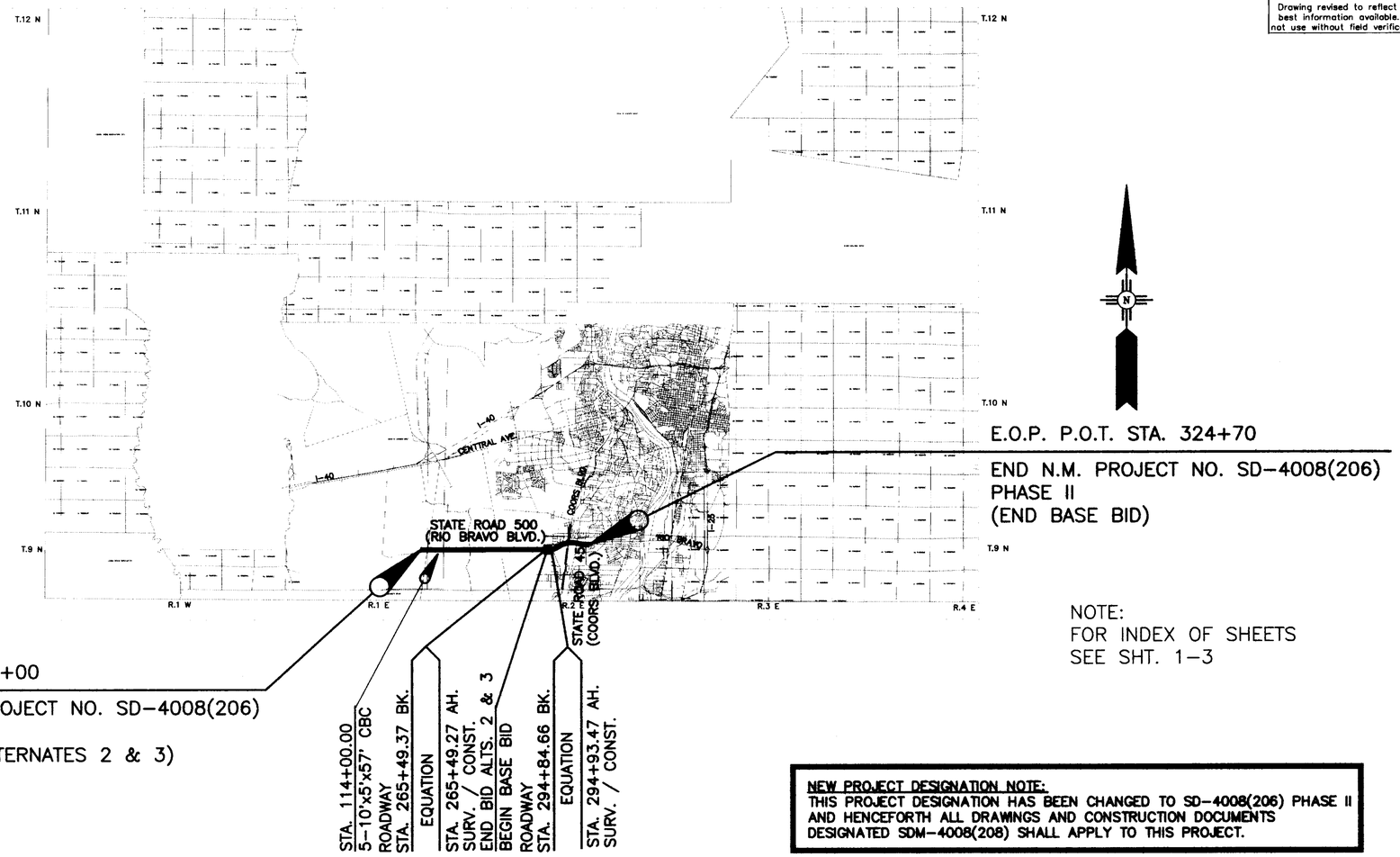
ALBUQUERQUE

THE 1994 EDITION OF NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SHALL GOVERN CONSTRUCTION OF THIS PROJECT.
ALL SANITARY SEWER WORK DETAILED ON THE SHEET 2-63 TO 2-79 TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THROUGH UPDATE FIVE.

## VICINITY MAP LEGEND

THIS CONTRACT
PLATTED ROADS

LENGTH OF PROJECT IN MILES 5.777
LENGTH OF R/W IN MILES 4.716




NOTE:
FOR INDEX OF SHEETS
SEE SHT. 1-3

**NEW PROJECT DESIGNATION NOTE:**
**THIS PROJECT DESIGNATION HAS BEEN CHANGED TO SD-4008(206) PHASE II AND HENCEFORTH ALL DRAWINGS AND CONSTRUCTION DOCUMENTS DESIGNATED SDM-4008(208) SHALL APPLY TO THIS PROJECT.**

## BRIDGES (BASE BID)

STA. 273+49.43 BUILD BRIDGE OVER AMOLE CHANNEL.
ONE SPAN, PRESTRESSED CONCRETE BULB TEE GIRDERS,
L= 151' W = 51'-6".

## MAJOR STRUCTURES-CBC (BID ALT. 1)

STA. 114+00 5-10'x5' CBC (NORM.) DES. 1

## VICINITY MAP

BERNALILLO COUNTY ZONE ATLAS MAPS
P-11-Z
P-10-Z
P-9-Z

## TYPE OF CONSTRUCTION

RECONSTRUCTION, PAVEMENT SECTIONS (FLEXIBLE), NEW FRONTAGE ROAD, (FLEXIBLE), CONCRETE LINED DITCH, LINEAR GRADING, EARTHWORK (BORROW) CURB & GUTTER, METAL BARRIER INSTALLATIONS, EROSION CONTROL MEASURES, BRIDGE (1 SPAN PRESTRESSED CONCRETE GIRDERS), SIGNALIZATION, LIGHTING, PERMANENT SIGNING, TRAFFIC CONTROL (PHASING), MAJOR STRUCTURE (CBC), STRUCTURE (CBC, NEW, EXTENSIONS, DROP INLETS) AND MISCELLANEOUS CONSTRUCTION.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |
| | REVISIONS (OR CHANGE NOTICES) | | |

THESE PLANS WERE DESIGNED AND/OR ASSEMBLED BY GANNETT FLEMING WEST, INC.

MICHAEL W. MALLOY, P.E. (505)265-8468
PRESIDENT TELEPHONE NO.

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

**VICINITY MAP**

Time: 12:41:44
Date: 3/27/1997 BY RKA
Drawing File: L:\PROJECTS\28164\STD\SR8-1-2

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SD-4008(206) PHASE II SHEET 1-2

# INDEX OF SHEETS AND SERIALS

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 1-3 |

| | NUMBER | DESCRIPTION | REV.DATE | SERIAL |
|---|---|---|---|---|
| | 1-1 | COVER SHEET | | |
| | 1-2 | VICINITY MAP SHEET | | |
| REVISED | 1-3 | INDEX OF SHEETS | | |
| REVISED | 1-4 | SUMMARY OF QUANTITIES (BASE BID) | | |
| REVISED | 1-5 | SUMMARY OF QUANTITIES (BASE BID) | | |
| | 1-6 | SUMMARY OF QUANTITIES (BID ALTERNATE 1) | | |
| | 1-7 | SUMMARY OF QUANTITIES (BID ALTERNATE 2) | | |
| | 1-8 | SUMMARY OF QUANTITIES (BID ALTERNATE 3) | | |
| REVISED | 1-9 | SANITARY SEWER GENERAL NOTES AND SUMMARY OF | | |
| | | QUANTITIES | | |
| REVISED | 1-10 | GENERAL NOTES | | |
| | 1-11 | SPECIAL PROVISIONS / SUPPLEMENTAL TECHNICAL | | |
| | | SPECIFICATIONS / INCIDENTAL ITEMS | | |
| | | SUBTOTAL = 11 | | |
| | | | | |
| | | | | |
| REVISED | 2-1 | ROADWAY TYPICAL SECTIONS | | |
| | 2-2 | ROADWAY TYPICAL SECTIONS | | |
| | 2-3 | MISCELLANEOUS ROADWAY DETAILS | | |
| | 2-4 | MISCELLANEOUS DITCH SECTIONS | | |
| | 2-5 | SURFACING SCHEDULE | | |
| | 2-6 | SURFACING SCHEDULE | | |
| | 2-7 | ESTIMATED STRUCTURE QUANTITIES | | |
| | 2-8 | ESTIMATED STRUCTURE QUANTITIES | | |
| | 2-9/2-14 | MISCELLANEOUS QUANTITIES | | |
| | 2-15/2-17 | BARRIER LAYOUT | | |
| | 2-18 | EROSION CONTROL PLAN AND SEEDING SCHEDULE | | |
| | 2-19 | INTERSECTION LAYOUT - MEADE AVE./RIO BRAVO BLVD. | | |
| | | CONDERSHIRE DR. | | |
| REVISED | 2-20 | INTERSECTION LAYOUT - RIO BRAVO BLVD./COORS BLVD. | | |
| REVISED | 2-21 | INTERSECTION LAYOUT - RIO BRAVO BLVD./COORS BLVD. | | |
| REVISED | 2-22 | RIO BRAVO BLVD. MEDIANS | | |
| REVISED | 2-23 | RIO BRAVO BLVD. MEDIANS | | |
| REVISED | 2-24 | RIO BRAVO BLVD. MEDIANS | | |
| REVISED | 2-25 | INTERSECTION LAYOUT - RIO BRAVO BLVD./COORS BLVD. | | |
| REVISED | 2-26 | INTERSECTION LAYOUT - RIO BRAVO SQUARE | | |
| | 2-27/2-28 | MISCELLANEOUS DETAILS | | |
| | 2-29/2-30 | AMOLE CHANNEL MODIFICATIONS | | |
| | 2-31 | 2-6x6 CBC TRANSITION DETAILS | | |
| REVISED | 2-32/2-33 | OUTLET TRANSITION DETAILS | | |
| 2-34,2-36 | 2-34/2-35 | SPECIAL DESIGN JUNCTION / GATE BOX DETAILS | | |
| | 2-36/2-37 | RETAINING WALL PLAN AND PROFILE SHEETS | | |
| | 2-38 | TRANSITION DETAILS BARRIER RAILING AND CONC. WALL | | DWG 036 |
| | | BARRIER TO THRIE BEAM TO W-BEAM (APPROACH) | | |
| | | SHT. 1 OF 2 | | |
| | 2-39 | TRANSITION DETAILS STEEL BRIDGE RAILING TO THRIE | | DWG 036 |
| | | BEAM TO W-BEAM (APPROACH) SHT. 2 OF 2 | | |
| | 2-40 | CURVED GUARDRAIL INSTALLATION | | |
| | 2-41 | B L A N K | | |
| | 2-42 | B L A N K | | |
| | 2-43 | MODIFIED ECCENTRIC LOADER BREAKAWAY CABLE TERMINAL | | |
| | | (MELT) - POST LAYOUT SHT. 1 OF 3 | REV. 07/03/96 | DWG 031 |
| | 2-44 | MODIFIED ECCENTRIC LOADER BREAKAWAY CABLE TERMINAL | | |
| | | (MELT) - ASSEMBLY AND STEEL TUBE FOOTING DETAIL | | |
| | | SHT. 2 OF 3 | REV. 07/03/96 | DWG 031 |
| | 2-45 | MODIFIED ECCENTRIC LOADER BREAKAWAY CABLE TERMINAL | | |
| | | (MELT) - STRUT, BREAKAWAY LINE POST AND BUFFERED | | |
| | | END SECTION DETAILS SHT. 3 OF 3 | REV. 10/03/95 | DWG 031 |
| | 2-46 | CITY OF ALBUQUERQUE STANDARD DRAWING 2250 | | |
| | 2-47 | CURB ACCESS RAMP DETAIL | | |
| | 2-48 | ENVIRONMENTAL CONCERNS | | |
| | 2-49/2-50 | EROSION AND SEDIMENT CONTROL MEASURES | | |
| | 2-51/2-66 | EROSION AND SEDIMENT CONTROL PLAN & PROFILE SHTS. | | |
| | 2-67 | TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES | | |
| | | SHT. 1 OF 4 | REV. 9/04/96 | DWG 050 |
| | 2-68 | T.E.S.C.M. SILT FENCE INSTALLATION AND CHECK DAMS | | |
| | | SHT. 2 OF 4 | REV. 9/04/96 | DWG 050 |
| | 2-69 | T.E.S.C.M. PIPE SLOPE DRAIN & SEDIMENT TRAPS | | |
| | | SHT. 3 OF 4 | REV. 9/04/96 | DWG 050 |
| | 2-70 | DROP INLET AND CULVERT PROTECTION | | |
| | | SHT. 4 OF 4 | REV. 9/04/96 | DWG 050 |
| | 2-71 | B L A N K | | |
| REVISED | 2-72/2-87 | SANITARY SEWER PLAN AND PROFILE SHEETS | | |
| 2-82 - 2-87 | | | | |
| | | SUBTOTAL = 87 | | |
| REVISED | 3-1/3-25 | ROADWAY PLAN & PROFILE SHEETS | | |
| 3-16,3-18 | 3-26\3-30 | DRAINAGE PROFILES | | |
| 3-19,3-20,3-23 | 3-31\3-38 | AREA GRADING PLANS | | |
| ADDED SHEET | | SUBTOTAL = 38 | | |
| AFTER 3-33 | | | | |
| | 4-1/4-2 | TURNOUT PROFILES | | |
| REVISED | | SUBTOTAL = 2 | | |
| 5-3,5-8,5-10 | | | | |
| 5-11,5-12 | 5-1/5-23 | BRIDGE PLANS | | |
| 5-14,5-15 | | SUBTOTAL = 24 | | |
| REVISED | 6-1/6-6 | SIGNALIZATION PLANS | | |
| 6-3,6-5 | 6-7/6-14 | STANDARD SIGNALIZATION DETAILS | | |
| 6-6,6-12 | | | | |
| | | SUBTOTAL = 14 | | |
| REVISED | 7-1/7-4 | LIGHTING PLANS | | |
| 7-1,7-2 | 7-5/7-9 | STANDARD LIGHTING DETAILS | | |
| 7-3,7-4 | | SUBTOTAL = 9 | | |
| REVISED | 8-1/8-20 | CONSTRUCTION SIGNING | | |
| 8-7,8-8 | | SUBTOTAL = 20 | | |
| | 9-1/9-17 | PERMANENT SIGNING AND STRIPING | | |
| | 9-18 | DESIGN LOADS FOR U POST BREAKAWAY SYSTEM SHT. 1 OF 2 | NEW 08/12/94 | DWG. 033 |
| | 9-19 | DESIGN LOADS FOR U POST BREAKAWAY SYSTEM SHT. 2 OF 2 | NEW 08/12/94 | DWG. 033 |
| | 9-20 | TRUCK CLIMBING OR PASSING LANE DETAIL | | |
| | 9-21 | PERMANENT SIGNING SUMMARY OF QUANTITIES (BASE BID) | | |
| | 9-22 | PERMANENT SIGNING SUMMARY OF QUANTITIES (BID ALT. 3) | | |
| | | SUBTOTAL = 22 | | |
| REVISED | 10-1/10-9 | STRUCTURE PLACEMENT SECTIONS | | |
| 10-3,10-5 | | SUBTOTAL = 9 | | |
| 10-9 | | | | |
| | 11-1 | DROP INLETS FOR TYPE "B" CURBS | REV. 02/01/80 | BDIC-003-04 |
| | 11-2 | DROP INLETS FOR TYPE "B" CURBS | REV. 06/02/94 | BDIC-004-11 |
| | 11-3 | EXCAVATING & BACKFILL FOR BRIDGES | | |
| | | WALLS & CBC'S | REV. 11/07/80 | BEB-001-04 |
| | 11-4 | BARRIER POST ANCHORAGE BLOCK | | |
| | | FOR NEW & EXISTING CBC CONSTR. | REV 06/02/94 | BPAB-001 |
| | 11-5 | BARRIER POST ANCHORAGE BLOCK | | |
| | | FOR NEW & EXISTING CBC CONSTR. | NEW 08/19/88 | BPAB-002 |
| | 11-6 | WIRE ENCLOSED RIPRAP | REV. 09/12/89 | BRR-001-8 |
| | 11-7 | SIDEWALK, CURB AND GUTTER | REV. 06/06/94 | BSCG-001 |
| | 11-8 | DOUBLE OPENING, NORMAL, GENERAL DATA, | | |
| | | SHT. 1 OF 5 | REV. 08/02/93 | CB-32 |
| | 11-9 | DOUBLE OPENING, NORMAL, DESIGN NO. 1 | | |
| | | SHT. 2 OF 5 | REV. 08/02/93 | CB-32 |
| | 11-10 | DOUBLE OPENING, NORMAL, DESIGN NO. 4 | | |
| | | SHT. 5 OF 5 | REV. 08/02/93 | CB-32 |
| | 11-11 | QUINTUPLE OPENING, NORMAL, DESIGN | | |
| | | NO. 1, SHT. 2 OF 5 | REV. 02/22/94 | CB-35 |
| | 11-12 | CONCRETE WALL BARRIER | REV. 12/30/76 | CWB-75 |
| | 11-13 | CONCRETE WALL BARRIER TRANSITION | NEW 02/04/76 | CWB-75A |
| | 11-14 | DETAILS OF EROSION CONTROL AT CULVERT | | |
| | | OUTLETS | REV. 03/17/80 | EC-61 |
| | 11-15 | PIPE CULVERT HEADWALL | REV 06/10/94 | H-1-61 |
| | 11-16 | STANDARD JOINT DETAILS, SHT. 1 OF 2 | REV. 05/24/94 | LJD-001-11 |
| | 11-17 | STANDARD JOINT DETAILS, SHT. 2 OF 2 | REV. 05/24/94 | LJD-001-11 |
| | 11-18 | FILL HEIGHTS & BEDDING DETAILS FOR | | |
| | | CONCRETE PIPE CULVERTS | REV. 09/09/74 | M-16-71 |
| | 11-19 | METAL BARRIER MATERIALS & PLACEMENT | | |
| | | PROCEDURES | REV. 02/01/85 | M-21-62 |
| | 11-20 | THRIE BEAM METAL BARRIER OVER CBC & | | |
| | | UNDERPASS | REV. 06/13/94 | M-21-67A |
| | 11-21 | METAL BARRIER THRIE BEAM: ROADSIDE | | |
| | | & BOX CULVERT, SHT. 1 OF 2 | REV. 03/21/85 | M-21-75 |
| | 11-22 | SPECIAL METAL BARRIER TRANSITION | | |
| | | DETAILS SHT. 2 OF 2 | REV. 03/20/85 | M-21-75 |
| | 11-23 | METAL BARRIER AT BRIDGE APPROACHES | | |
| | | SHT. 1 OF 2 | REV. 02/05/85 | M-21-77 |
| | 11-24 | APPROACH SLOPE PREPARATION METAL | | |
| | | BARRIER INSTALLATION, SHT. 2 OF 2 | REV. 02/07/85 | M-21-77 |
| | 11-25 | GATES | REV. 05/20/82 | RFG-001-05 |
| | 11-26 | FIELD LABORATORY TYPE I | REV. 08/09/90 | RFL-001-03 |
| | 11-27 | FIELD LABORATORY TYPE II SHT. 1 OF 2 | REV. 07/21/93 | RFL-003-09 |
| | 11-28 | FIELD LABORATORY TYPE II SHT. 2 OF 2 | REV. 07/21/93 | RFL-003-09 |
| | 11-29 | FENCE PLACEMENT | NEW 08/25/77 | RFP-001 |
| | 11-30 | FENCE PLACEMENT | NEW 08/25/77 | RFP-002 |
| | 11-31 | FENCE PLACEMENT | REV. 10/27/77 | RFP-003-01 |
| | 11-32 | MISCELLANEOUS DETAILS | REV 08/05/94 | RMD-001-00 |
| | 11-33 | MEDIAN & RIGHT-OF-WAY TRANSITION | | |
| | | CURVES, SHT. 2 OF 2 | NEW 03/24/60 | SE-2 |
| | 11-34 | DESIGN LOADS FOR SQUARE TUBING POSTS | REV. 08/24/94 | SN-75-1 |
| | 11-35 | ALUMINUM PANEL SIGN DETAILS | REV. 05/20/93 | SN-75-02 |
| | | SHT. 1 OF 2 | | |
| | 11-36 | ALUMINUM PANEL SIGN DETAILS | REV. 05/20/93 | SN-75-02 |
| | | SHT. 2 OF 2 | | |
| | 11-37 | TRAFFIC MARKER-GUIDE DETAILS | REV. 09/24/79 | SN-75-7 |
| | 11-38 | TRAFFIC MARKER-HAZARD DETAILS | REV. 07/01/88 | SN-75-8 |
| | 11-39 | STEEL METAL BARRIER POSTS | REV. 02/05/85 | TSGP-001-11 |
| | 11-40 | WINGWALLS FOR NORMAL CONCRETE BOX | | |
| | | CULVERTS, SHT. 1 OF 2 | REV. 11/29/67 | WCB-0 |
| | 11-41 | WINGWALLS FOR NORMAL CONCRETE BOX | | |
| | | CULVERTS, SHT. 2 OF 2 | REV. 06/09/94 | WCB-0 |
| | | SUBTOTAL = 41 | | |
| | | TOTAL = 276 | | |

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

**AS-BUILT**

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

## INDEX OF SHEETS

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

Time: 14:40:20
Date: 5/5/1998 BRS
Drawing File: L:\PROJECTS\28164\Abuilts\Sh-1-3.dwg

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 1-3

# SUMMARY OF QUANTITIES (BASE BID)

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 1-4 |

| ITEM NO. | ITEM | UNIT | ROADWAY | | CONSTRUCTION ENGINEERING | | BRIDGE | | MAJOR STRUCTURES | | CONSTRUCTION SIGNING | | PERMANENT SIGNING | | ROADWAY LIGHTING | | TRAFFIC SIGNALIZATION | | PROJECT TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL |
| 203000 | UNCLASSIFIED EXCAVATION | CY | 420000 | 29910 | | | | | | | | | | | | | | | 420000 | 29910 |
| 207000 | SUBGRADE PREPARATION | SY | 79800 | 75100 | | | | | | | | | | | | | | | 79800 | 75100 |
| 208000 | LINEAR GRADING | MILE | 0.10 | 0.10 | | | | | | | | | | | | | | | 0.10 | 0.10 |
| 208010 | LINEAR GRADING | LF | 1950 | 0 | | | | | | | | | | | | | | | 1950 | 0 |
| 213000 | OBLITERATING OLD ROAD | MILE | 0.066 | 0.066 | | | | | | | | | | | | | | | 0.066 | 0.066 |
| 304000-001 | BASE COURSE OR SUBBASE | TON | 24900 | 30977.54 | | | | | | | | | | | | | | | 24900 | 30977.54 |
| 304090 | BASE COURSE / SUBBASE TESTING BY THE CONTRACTOR | LS | | | 1 | 0 | | | | | | | | | | | | | 1 | 0 |
| 311010 | BITUMINOUS TREATED OPEN GRADED BASE COURSE | SY | 1020 | 1010.56 | | | | | | | | | | | | | | | 1020 | 1010.56 |
| 401000 | PLANT MIX BITUMINOUS PAVEMENT (PMBP) TYPE I, GRADE "A" | TON | 10780 | 11120.42 | | | | | | | | | | | | | | | 10780 | 11120.42 |
| 401210 | 60-70 BITUMINOUS MATERIAL | TON | 470 | 469.89 | | | | | | | | | | | | | | | 470 | 469.89 |
| 401300 | HYDRATED LIME | TON | 166 | 159.46 | | | | | | | | | | | | | | | 166 | 159.46 |
| 401400 | PMBP SAMPLING AND TESTING BY THE CONTRACTOR | LS | | | 1 | 0 | | | | | | | | | | | | | 1 | 0 |
| 408000 | BITUMINOUS MATERIAL FOR PRIME COAT | TON | 147 | 43.51 | | | | | | | | | | | | | | | 147 | 43.51 |
| 451100 | CONCRETE PAVEMENT - 10" | SY | 1020 | 1010.56 | | | | | | | | | | | | | | | 1020 | 1010.56 |
| 506000 | EARTH RETAINING WALL | SF | | | | | 9130 | 9130 | | | | | | | | | | 1690 | 9130 | 9130 |
| 511000 | STRUCTURAL CONCRETE CLASS A | CY | ~~4744~~ | 1434.34 | | | | | | | | | | | 77 | 47.36 | 30 | 18.94 | ~~4851~~ | 1500.64 |
| 511240 | STRUCTURAL CONCRETE CLASS B - 6" | SY | 1583 | | | | 440 | 348.93 | | | | | | | | | | | 440 | 348.93 |
| 511300 | SUBSTRUCTURE CONCRETE CLASS A | CY | | | | | 392 | 402.47 | | | | | | | | | | | 392 | 402.47 |
| 512000 | SUPERSTRUCTURE CONCRETE | CY | | | | | 287 | 275.19 | | | | | | | | | | | 287 | 275.19 |
| 513074 | PRESTRESSED CONCRETE BRIDGE MEMBER TYPE 72 | LF | | | | | 1168 | 1168 | | | | | | | | | | | 1168 | 1168 |
| 514032 | CONCRETE BARRIER RAILING - 32" | LF | 186800 | | | | 364 | 354 | | | | | | | | | | | 364 | 354 |
| 532000 | PENETRATING WATER REPELLENT TREATMENT | SY | | | | | 1640 | 0 | | | | | | | | | | 273000 | 1640 | 0 |
| 540060 | REINFORCING BARS GRADE 60 | LB | ~~421666~~ | 175156.73 | | | 79610 | 78825.12 | | | | | | | 6000 | 3598 | 590 | 1251 | ~~687756~~ | 258830.85 |
| 540160 | EPOXY COATED REINFORCING BARS GRADE 60 | LB | | | | | 25780 | 25866.19 | | | | | | | | | | | 25780 | 25866.19 |
| 540200 | WELDED WIRE FABRIC | LB | 40 | 0 | | | 1670 | 1320.32 | | | | | | | | | | | 1710 | 1320.32 |
| 541000 | STRUCTURAL STEEL FOR CONCRETE BRIDGES AASHTO M 183 | LB | | | | | 2770 | 4621.66 | | | | | | | | | | | 2770 | 4621.66 |
| 541200 | STRUCTURAL STEEL FOR MISCELLANEOUS STRUCTURES AASHTO M 183 | LB | 1360 | 1360 | | | | | | | | | | | | | | | 1360 | |
| 562000 | BRIDGE JOINT STRIP SEAL | LF | | | | | 126 | 126 | | | | | | | | | | | | 1360 |
| 570426 | 18" REINFORCED CONCRETE PIPE CLASS III | LF | 862 | 878 | | | | | | | | | | | | | | | 862 | 878 |
| 570429 | 18" REINFORCED CONCRETE END SECTION | EA | 2 | 2 | | | | | | | | | | | | | | | 2 | 2 |
| 570437 | 24" REINFORCED CONCRETE PIPE CLASS II | LF | ~~355~~ | 0 | | | | | | | | | | | | | | | ~~355~~ | 0 |
| 570438 | 24" REINFORCED CONCRETE PIPE CLASS III | LF | 924 ~~440~~ | 863.5 | | | | | | | | | | | | | | | ~~1364~~ | 863.50 |
| 570462 | 36" REINFORCED CONCRETE PIPE CLASS III | LF | 16 | 15 | | | | | | | | | | | | | | | 16 | 15 |
| 570487 | 60" REINFORCED CONCRETE PIPE CLASS II | LF | 310 ~~308~~ | 48 | | | | | | | | | | | | | | | ~~618~~ | 48 |
| 570496 | 66" REINFORCED CONCRETE PIPE CLASS IV | LF | 292 | 296 | | | | | | | | | | | | | | | 292 | 296 |
| 601000 | REMOVAL OF STRUCTURES AND OBSTRUCTIONS | LS | 1 | 1 | | | | | | | | | | | | | | | 1 | 1 |
| 601110 | REMOVAL OF SURFACING | SY | 31705 | 5039 | | | | | | | | | | | | | | | 31705 | 5039 |
| 602000 | RIPRAP CLASS A | CY | 12 | 14.3 | | | | | | | | | | | | | | | 12 | 14.3 |
| 603200 | SILT FENCE | LF | 2635 | 2815 | | | | | | | | | | | | | | | 2635 | 2815 |
| 603220 | CHECK DAM TYPE I | LF | 270 | 0 | | | | | | | | | | | | | | | 270 | 0 |
| 603251 | DROP INLET PROTECTION TYPE II | EA | 3 | 0 | | | | | | | | | | | | | | | 3 | 0 |
| 603260 | CULVERT PROTECTION | SY | 66 | 0 | | | | | | | | | | | | | | | 66 | 0 |
| 603100 | TEMPORARY SOIL STABILANT | AC | 14 | 0 | | | | | | | | | | | | | | | 14 | 0 |
| 604300 | GEOGRID REINFORCEMENT | SY | | | | | 2330 | 2349.56 | | | | | | | | | | | 2330 | 2349.56 |
| 606000 | METAL BARRIER W-BEAM | LF | 1800 | 1962.5 | | | | | | | | | | | | | | | 1800 | 1962.50 |
| 606010 | METAL BARRIER THRIE BEAM | LF | 275 | 353.75 | | | | | | | | | | | | | | | 275 | 353.75 |
| 606125 | METAL BARRIER ANCHORAGE TYPE MELT | EA | 8 | 7 | | | | | | | | | | | | | | | 8 | 7 |
| 606532 | CONCRETE WALL BARRIER - 32" | LF | 295 | 296 | | | | | | | | | | | | | | | 295 | 296 |
| 607015 | WOVEN WIRE BARRIER FENCE | LF | 1370 | 1350 | | | | | | | | | | | | | | | 1370 | 1350 |
| 607312 | STANDARD GATE - 12' | EA | 6 | 6 | | | | | | | | | | | | | | | 6 | 6 |
| 607320 | STANDARD GATE - 20' | EA | 2 | 2 | | | | | | | | | | | | | | | 2 | 2 |
| 607509 | PIPE GATE - 9' | EA | 2 | 2 | | | | | | | | | | | | | | | 2 | 2 |
| 609424 | CONCRETE BARRIER CURB AND GUTTER TYPE B - 6" x 24" | LF | 7200 | 7129 | | | | | | | | | | | | | | | 7200 | 7129 |
| 618010 | TRAFFIC CONTROL MANAGEMENT | CAL.DAY | | | 150 | 321 | | | | | | | | | | | | | 150 | 321 |
| 619066 | ~~619584~~ 24"x24" RED TOP WATERMAN C-10 CANAL GATE | EA | 2 | 1 | | | | | | | | | | | | | | | 2 | 1 |
| 619070 | ~~619536~~ 36"x36" RED TOP WATERMAN C-10 CANAL GATE | EA | 1 | 1 | | | | | | | | | | | | | | | 1 | 1 |
| 619072 | ~~619548~~ 48"x48" RED TOP WATERMAN C-10 CANAL GATE | EA | 1 | 0 | | | | | | | | | | | | | | | 1 | 0 |
| 619096 | ~~619560~~ 60"x60" RED TOP WATERMAN C-10 CANAL GATE | EA | 1 | 0 | | | | | | | | | | | | | | | 1 | 0 |
| 629098 | ~~619566~~ 66"x66" RED TOP WATERMAN C-10 CANAL GATE | EA | 2 | 2 | | | | | | | | | | | | | | | 2 | 2 |
| 621000 | MOBILIZATION | LS | 1 | 1 | | | | | | | | | | | | | | | 1 | 1 |
| 623311 | CURB DROP INLET TYPE I-B, 0' TO 4' | EA | 3 | 3 | | | | | | | | | | | | | | | 3 | 3 |
| 632000 | CLASS "A" SEEDING | AC | 23 | 36.06 | | | | | | | | | | | | | | | 23 | 36.06 |
| 667500 | BOLLARD | EA | 6 | 6 | | | | | | | | | | | | | | | 6 | 6 |
| | | | | | | | | | | | | | | | | | | | | |
| 203100-001 | BORROW | CY | 0 | 321164 | | | | | | | | | | | | | | | 0 | 321164 |
| 452000 | SEALING CONCRETE PAVEMENT JOINTS | LF | 1200 | 1239.18 | | | | | | | | | | | | | | | 1200 | 1239.18 |
| 511000-001 | GALVANIZED SLEEVES | LS | | LS | | | | | | | | | | | | | | | | LS |
| 511000-002 | INCREASED COST FOR INSTALLATION OF AN ACCESS ROAD THROUGH THE RETAINING ROAD | LS | | LS | | | | | | | | | | | | | | | | LS |
| 511999 | CONCRETE CHANNEL LINING | SY | 225 | 210.19 | | | | | | | | | | | | | | | 225 | 210.19 |
| 601000-001 | BUILDING REMOVAL | LS | | LS | | | | | | | | | | | | | | | | LS |
| 601110-001 | REMOVAL OF SURFACING, 7" AVERAGE THICKNESS | SY | 0 | 36034 | | | | | | | | | | | | | | | 0 | 36034 |
| 602000-001 | TEMPORARY CONNECTION FOR 24" IRRIGATION PIPE | LS | | LS | | | | | | | | | | | | | | | | LS |
| 607004 | BARBED WIRE FENCE - 4' | LF | 0 | 2263 | | | | | | | | | | | | | | | 0 | 2263 |
| 607015-001 | WOVEN WIRE BARRIER RETAINING WALL FENCE | LF | 0 | 1000 | | | | | | | | | | | | | | | 0 | 1000 |
| 541200-001 | JUNCTION BOX REVISIONS | LS | | LS | | | | | | | | | | | | | | | | LS |
| 606000-001 | STANDARD GUARDRAIL ENDS | LS | | LS | | | | | | | | | | | | | | | | LS |
| 606100 | METAL BARRIER ANCHORAGE, TYPE "A" | LS | | LS | | | | | | | | | | | | | | | | LS |
| 662400 | ADJUSTMENT OF 4 MANHOLES | LS | | LS | | | | | | | | | | | | | | | | LS |
| 662400-001 | ADJUSTMENT OF 5 MANHOLES AND 5 WATER VALVES | LS | | LS | | | | | | | | LS | | | | | | | | LS |
| 721000-001 | REMOVAL OF 5 PAVEMENT ARROWS | LS | | | | | | | | | | | | | | | | | | LS |
| 511000-003 | PROTECTIVE CAPS FOR EXPOSED LIGHT FOUNDATIONS | LS | | | | | | | | | | | | | | LS | | | | LS |
| 706000-001 | POWER SERVICE AND POLE (SIGNAL) | LS | | | | | | | | | | | | | | | | LS | | LS |

INCIDENTAL ITEM

**NOTE:**
TEXT SHOWN IN BOLD FONT INDICATES AS-BUILT CHANGES OR ADDITIONS

**AS-BUILT**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

SUMMARY OF QUANTITIES
(BASE BID)

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

Time: 13:41:22
Date: 3/6/2009 BRS
Drawing File: L:\PROJECTS\28164\Asbuilts\Srb-1-4.dwg

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 1-4

# SUMMARY OF QUANTITIES (BASE BID)

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 1-5 |

| ITEM NO. | ITEM | UNIT | ROADWAY | | CONSTRUCTION ENGINEERING | | BRIDGE | | MAJOR STRUCTURES | | CONSTRUCTION SIGNING | | PERMANENT SIGNING | | ROADWAY LIGHTING | | TRAFFIC SIGNALIZATION | | PROJECT TOTAL | | SMART CORRIDOR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL |
| 701000 | PANEL SIGN | SF | | | | | | | | | | | 420 | 595 | | | | | 420 | 595 | | |
| 701100 | STEEL POST AND BASE POST FOR PANEL SIGN | LF | | | | | | | | | | | 915 | 1270.5 | | | | | 915 | 1270.5 | | |
| 701821 | FIXED BARRICADE TYPE III - 8' | EA | | | | | | | | | | | 4 | 8 | | | | | 4 | 8 | | |
| 702000 | CONSTRUCTION SIGNING | SF | | | | | | | | | 1212 | 1391.25 | | | | | | | 1212 | 1391.25 | | |
| 702100 | STEEL POST AND BASE POST FOR CONSTRUCTION SIGNING | LF | | | | | | | | | 2061 | 2284.5 | | | | | | | 2061 | 2284.5 | | |
| 702238 | BARRICADE TYPE III - 8' | EA | | | | | | | | | 19 | 29 | | | | | | | 19 | 29 | | |
| 702310 | VERTICAL PANEL, TYPE SINGLE | EA | | | | | | | | | 58 | 0 | | | | | | | 58 | 0 | | |
| 702320 | VERTICAL PANEL, TYPE BACK TO BACK | EA | | | | | | | | | 107 | 159 | | | | | | | 107 | 159 | | |
| 702520 | CHANNELIZATION DEVICES (DRUMS) TYPE H | EA | | | | | | | | | 350 | 319 | | | | | | | 350 | 319 | | |
| 702600 | SEQUENTIAL ARROW DISPLAY | EA | | | | | | | | | 3 | 3 | | | | | | | 3 | 3 | | |
| 702700 | TEMPORARY SIGNAL SPAN | EA | | | | | | | | | 2 | 1 | | | | | | | 2 | 1 | | |
| 703001 | OBJECT MARKER, TYPE I | EA | | | | | | | | | | | 1 | 9 | | | | | 1 | 9 | | |
| 703002 | OBJECT MARKER, TYPE II | EA | | | | | | | | | | | 26 | 42 | | | | | 26 | 42 | | |
| 703100 | ROAD DELINEATOR TYPE GUIDE | EA | | | | | | | | | | | 33 | 0 | | | | | 33 | 0 | | |
| 703110 | ROAD DELINEATOR TYPE HAZARD | EA | | | | | | | | | | 73000 | 6 | 0 | | | | | 6 | 0 | | |
| 704000 | REFLECTORIZED PAINTED MARKING | LF | | | | | | | | | 0 ~~6100~~ | 0 | ~~60300~~ | 60062.2 | | | | | 73000 | 60062.2 | | |
| 704204 | REFLECTORIZED PLASTIC PAVEMENT STRIPE- 4" | LF | | | | | | | | | | | 1250 | 2265 | | | | | 1250 | 2265 | | |
| 704208 | REFLECTORIZED PLASTIC PAVEMENT STRIPE- 8" | LF | | | | | | | | | | | 3260 | 3325 | | | | | 3260 | 3325 | | |
| 704212 | REFLECTORIZED PLASTIC PAVEMENT STRIPE- 12" | LF | | | | | | | | | | | 3050 | 2533 | | | | | 3050 | 2533 | | |
| 704224 | REFLECTORIZED PLASTIC PAVEMENT STRIPE- 24" | LF | | | | | | | | | | | 310 | 392 | | | | | 310 | 392 | | |
| 704300 | REFLECTORIZED PLASTIC COMBINATION ARROW (THRU AND RIGHT) | LF | | | | | | | | | | | 3 | 3 | | | | | 3 | 3 | | |
| 704320 | REFLECTORIZED PLASTIC LEFT ARROW | LF | | | | | | | | | | | 1 | 3 | | | | | 1 | 3 | | |
| 704330 | REFLECTORIZED PLASTIC RIGHT ARROW | LF | | | | | | | | | | | 10 | 21 | | | | | 10 | 21 | | |
| 704340 | REFLECTORIZED PLASTIC THRU ARROW | LF | | | | | | | | | | | 4 | 9 | | | | | 4 | 9 | | |
| 704400 | REFLECTORIZED PLASTIC WORD (ONLY) | LF | | | | | | | | | | | 9 | 8 | | | | | 9 | 8 | | |
| 706000 | SERVICE POLE (SIGNAL) | EA | | | | | | | | | | | | | | | 1 | 0 | 1 | 0 | | |
| 706100 | SERVICE RISER (SIGNAL) | EA | | | | | | | | | | | | | | | 1 | 2 | 1 | 2 | | |
| 706200 | METER PEDESTAL (SIGNAL) | EA | | | | | | | | | | | | | | | 1 ~~0~~ | 2 | 1 ~~0~~ | 2 | | |
| 707013 | TYPE I, STANDARD, 13' | EA | | | | | | | | | | | | | | | 5 | 5 | 5 | 5 | | |
| 707231 | TYPE II ALBUQUERQUE STANDARD, 30' ARM | EA | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | | |
| 707236 | TYPE II ALBUQUERQUE STANDARD, 35' ARM | EA | | | | | | | | | | | | | | | 5 | 5 | 5 | 5 | | |
| 709010 | RIGID ELECTRICAL CONDUIT - 1" (DIA.) | LF | | | | | | | | | | | | | | | 200 | 298 | 200 | 298 | | |
| 709020 | RIGID ELECTRICAL CONDUIT - 2" (DIA.) | LF | | | | | | | | | | | | | 7000 | 6347 | 2850 | 2900 | 9850 | 9247 | | |
| 709025 | RIGID ELECTRICAL CONDUIT - 2½" (DIA.) | LF | | | | | 364 | 418 | | | | | | | | | | | 364 | 418 | | |
| 709030 | RIGID ELECTRICAL CONDUIT - 3" (DIA.) | LF | | | | | | | | | | | | | | | 2200 | 2112 | 2200 | 2384 | 0 | 184 |
| 710010 | ELECTRICAL PULL BOX (LARGE) | EA | | | | | | | | | | | | | 5 | 13 | 24 | 24 | 29 | 38 | 0 | 1 |
| 710300 | SPLICE CABINET | EA | | | | | | | | | | | | | | | 2 | 2 | 2 | 2 | | |
| 710400 | TYPE I TRAFFIC SIGNAL MANHOLE | EA | | | | | | | | | | | | | | | 5 | 5 | 5 | 5 | | |
| 711005 | MULTI CONDUCTOR CABLE 5 | LF | | | | | | | | | | | | | | | 2000 | 2680 | 2000 | 2680 | | |
| 711007 | MULTI CONDUCTOR CABLE 7 | LF | | | | | | | | | | | | | | | 350 | 323 | 350 | 323 | | |
| 711020 | MULTI CONDUCTOR CABLE 20 | LF | | | | | | | | | | | | | | | 2250 | 3230 | 2250 | 3230 | | |
| 711104 | SINGLE CONDUCTOR 4 | LF | | | | | | | | | | | | | | | 300 | 126 | 300 | 126 | | |
| 711106 | SINGLE CONDUCTOR 6 | LF | | | | | | | | | | | | | | | 700 | 1809 | 700 | 1809 | | |
| 711512 | COMMUNICATION CABLE 12 PAIR | LF | | | | | | | | | | | | | | | 400 | 491 | 400 | 491 | | |
| 712030 | 3 SECTION TRAFFIC SIGNAL ASSEMBLY | EA | | | | | | | | | | | | | | | 13 | 18 | 13 | 18 | | |
| 712050 | 5 SECTION TRAFFIC SIGNAL ASSEMBLY | EA | | | | | | | | | | | | | | | 11 | 10 | 11 | 10 | | |
| 712200 | PEDESTRIAN SIGNAL - NEON | EA | | | | | | | | | | | | | | | 8 | 8 | 8 | 8 | | |
| 712330 | 3 SECTION BACKPLATE | EA | | | | | | | | | | | | | | | 7 | 7 | 7 | 7 | | |
| 712350 | 5 SECTION BACKPLATE | EA | | | | | | | | | | | | | | | 6 | 5 | 6 | 5 | | |
| 713010 | LOOP VEHICLE DETECTOR | EA | | | | | | | | | | | | | | | 18 | 16 | 18 | 16 | | |
| 713020 | PUSH BUTTON STATION | EA | | | | | | | | | | | | | | | 8 | 8 | 8 | 8 | | |
| 713030 | LOOP DETECTOR WIRE | LF | | | | | | | | | | | | | | | 11500 | 10021 | 11500 | 10021 | | |
| 713250 | LOOP LEAD-IN CABLE | LF | | | | | | | | | | | | | | | 9900 | 8103 | 9900 | 8103 | | |
| 713300 | DETECTOR SAWCUT | LF | | | | | | | | | | | | | | | 1450 | 3350 | 1450 | 3350 | | |
| 714000 | TRAFFIC ACTUATED CONTROLLER | EA | | | | | | | | | | | | | | | 2 | 2 | 2 | 2 | | |
| 714280 | 8 PHASE DOUBLE RING CONTROLLER CABINET | EA | | | | | | | | | | | | | | | 2 | 2 | 2 | 2 | | |
| 717110 | TEMPORARY REFLECTIVE PAVEMENT MARKER TYPE TD | EA | | | | | | | | | 13 | 0 | | | | | | | 13 | 0 | | |
| 721000 | REMOVAL OF PAVEMENT STRIPE | LF | | | | | | | | | 1000 | 1536 | | | | | | | 1000 | 1536 | | |
| 870001 | CONSTRUCTION STAKING BY THE CONTRACTOR | LS | | | 1 | 1 | | | | | | | | | | | | | 1 | 1 | | |
| 607024 | CHAIN LINK FENCE - 4' | LF | 164 | 164 | | | | | | | | | | | | | | | 164 | 164 | | |
| 607026 | TEMPORARY FENCE AT ARCHAEOLOGICAL SITE | LS | LS | | | | | | | | | | | | | | | | | LS | | |
| 619066-001 | PURCHASE OF OF ELIMINATED CANAL GATES | LS | LS | | | | | | | | | | | | | | | | | LS | | |
| 682000 | MANHOLE FOR TIE-IN OF NEW IRRIGATION PIPE TO EXIST. IRRIGATION PIPE | LS | LS | | | | | | | | | | | | | | | | | LS | | |
| 870001-001 | SLOPE STAKING OF BORROW PIT | LS | LS | | | | | | | | | | | | | | | | | LS | | |
| 203000-001 | TRENCHING FOR CONDUIT INSTALLATION AND UTILITY RELOCATION | LS | | | | | | | LS | | | | | | | | | | | LS | | |
| 210000 | STRUCTURAL EXCAVATION AND BACKFILL FOR BRIDGES | CY | | | | | 410 | 0 | | | | | | | | | | | 410 | 0 | | |
| 532100 | ANTI-GRAFFITI PROTECTIVE COATING | LS | | | | | | | LS | | | | | | | | | | | LS | | |
| 532100-001 | ANTI-GRAFFITI PROTECTIVE COATING FOR EXPOSED BRIDGE SURFACES | SF | | 0 | 13271 | | 0 | 13271 | | | | | | | | | | | 0 | 13271 | | |
| 602000-001 | EROSION CONTROL AT BRIDGE ABUTMENTS | LS | | | | | | | LS | | | | | | | | | | | LS | | |
| 607026 | CHAIN LINK FENCE - 6' | LS | | | | | | | LS | | | | | | | | | | | LS | | |
| 709025-001 | ADDITONAL JUNCTION BOXES AND FLEXIBLE CONDUIT FOR INSTALLATION INTO BARRIER WALL | LS | | | | | | | LS | | | | | | | | | | | LS | | |
| 702700-001 | TEMPORARY SIGNAL INSTALLATION - PHASE AII | LS | | | | | | | | | | | LS | | | | | | | LS | | |
| 702700-002 | MODIFIED TEMPORARY SIGNALS - PHASE AIII | LS | | | | | | | | | | | LS | | | | | | | LS | | |
| 702700-003 | TRAFFIC CONTROL REVISIONS FOR PHASE AIV | LS | | | | | | | | | | | LS | | | | | | | LS | | |
| 704100 | REMOVABLE MARKING TAPE, INCLUDING REMOVAL | LF | | | | | | | | | | 0 | 9878 | | | | | | 0 | 9878 | | |
| 203000-002 | COST TO HAND EXCAVATE THREE LIGHTIN FOUNDATIONS | LS | | | | | | | | | | | | | | LS | | | | LS | | |
| 706420 | LIGHTING SERVICE PEDESTAL - 2 CIRCUIT | EA | | | | | | | | | | | | | 0 | 1 | | | 0 | 1 | | |
| 707740 | FOUR TYPE V STANDARDS WITH TYPE 400S LUMINAIRES | LS | | | | | | | | | | | | | | LS | | | | LS | | |
| 203000-001 | COST TO HAND EXCAVATE SIGNAL FOUNDATION | LS | | | | | | | | | | | | | | | | LS | | LS | | |
| 203000-003 | COST TO RELOCATE THE FOUNDATION FOR MAST ARM NO. 2 | LS | | | | | | | | | | | | | | | | LS | | LS | | |
| 203000-004 | STABILIZATION OF UNSTABLE SUBGRADE | LS | | LS | | | | | | | | | | | | | | | | LS | | |
| 203100-002 | EXTENSION OF SIDE SLOPES IN FILL AREAS | LS | | LS | | | | | | | | | | | | | | | | LS | | |
| 401000-002 | REMOVAL AND REPLACEMENT OF ASPHALT PAVEMENT | LS | | LS | | | | | | | | | | | | | | | | LS | | |
| 511000-004 | COST IMPACT FROM UTILITY CONFLICTS | LS | | LS | | | | | | | | | | | | | | | | LS | | |
| 870001-002 | ADDITIONAL STAKING FOR MEADE AVENUE | LS | | | | | LS | | | | | | | | | | | | | LS | | |
| 870001-003 | ADDITIONAL MISCELLANEOUS STAKING | LS | | | | | LS | | | | | | | | | | | | | LS | | |
| 512000-001 | GROOVING OF BRIDGE APPROACH SLABS | LS | | | | | | | LS | | | | | | | | | | | LS | | |
| 541000-001 | BEVEL WASHERS FOR BRIDGE TIE RODS | LS | | | | | | | LS | | | | | | | | | | | LS | | |
| 401000-001 | TEMPORARY MEDIAN AND DETOUR PAVING | LS | | | | | | | | | | | LS | | | | | | | LS | | |

NOTE:
TEXT SHOWN IN BOLD FONT INDICATES AS-BUILT CHANGES OR ADDITIONS

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

SUMMARY OF QUANTITIES (BASE BID)

Time: 15:53:32
Date: 5/6/2009 BRS
Drawing File: L:\PROJECTS\28164\Asbuilts\Sb-1-5.dwg

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 1-5

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 1-6 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

# SUMMARY OF QUANTITIES (BID ALTERNATE 1)

| ITEM NO. | ITEM | UNIT | ROADWAY | | CONSTRUCTION ENGINEERING | | BRIDGE | | MAJOR STRUCTURES | | CONSTRUCTION SIGNING | | PERMANENT SIGNING | | ROADWAY LIGHTING | | TRAFFIC SIGNALIZATION | | PROJECT TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL |
| 304000 | BASE COURSE OR SUBBASE | TON | 926 | | | | | | | | | | | | | | | | 926 | |
| 511000 | STRUCTURAL CONCRETE CLASS A | CY | 471 | | | | | | | | | | | | | | | | 471 | |
| 511999 | CONCRETE CHANNEL LINING | SY | 24630 | | | | | | | | | | | | | | | | 24630 | |
| 540060 | REINFORCING BARS GRADE 60 | LB | 77600 | | | | | | | | | | | | | | | | 77600 | |
| 570438 | 24" REINFORCED CONCRETE PIPE CLASS III | LF | 217 | | | | | | | | | | | | | | | | 217 | |
| 601000 | REMOVAL OF STRUCTURES AND OBSTRUCTIONS | LS | 1 | | | | | | | | | | | | | | | | 1 | |
| 603050 | SEDIMENT TRAP | CY | 60 | | | | | | | | | | | | | | | | 60 | |
| 603220 | CHECK DAM TYPE I | LF | 2060 | | | | | | | | | | | | | | | | 2060 | |
| 603250 | DROP INLET PROTECTION TYPE I | EA | 2 | | | | | | | | | | | | | | | | 2 | |
| 603260 | CULVERT PROTECTION | SY | 66 | | | | | | | | | | | | | | | | 66 | |
| 607024 | CHAINLINK FENCE 4' | LF | 164 | | | | | | | | | | | | | | | | 164 | |
| 623002 | MEDIAN DROP INLET TYPE I - 2' TO 3' | EA | 1 | | | | | | | | | | | | | | | | 1 | |
| 623003 | MEDIAN DROP INLET TYPE I - 3' TO 6' | EA | 1 | | | | | | | | | | | | | | | | 1 | |
| 870001 | CONSTRUCTION STAKING BY THE CONTRACTOR | LS | | | | 1 | | | | | | | | | | | | | 1 | |

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

**SUMMARY OF QUANTITIES
(BID ALTERNATE 1)**

Time: 10:56:35
Date: 9/4/1997 ELP
Drawing File: L:\PROJECTS\28164\STD\SRB-1-6.DWG

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 1-6

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 1-7 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

# SUMMARY OF QUANTITIES (BID ALTERNATE 2)

| ITEM NO. | ITEM | UNIT | ROADWAY | | CONSTRUCTION ENGINEERING | | BRIDGE | | MAJOR STRUCTURES | | CONSTRUCTION SIGNING | | PERMANENT SIGNING | | ROADWAY LIGHTING | | TRAFFIC SIGNALIZATION | | PROJECT TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL |
| 203000 | UNCLASSIFIED EXCAVATION | CY | 57000 | | | | | | | | | | | | | | | | 57000 | |
| 203100 | BORROW | CY | 119500 | | | | | | | | | | | | | | | | 119500 | |
| 207000 | SUBGRADE PREPARATION | SY | 138500 | | | | | | | | | | | | | | | | 138500 | |
| 304000 | BASE COURSE OR SUBBASE | TON | 41600 | | | | | | | | | | | | | | | | 41600 | |
| 304090 | BASE COURSE/SUBBASE SAMPLING BY CONTRACTOR | LS | | | 1 | | | | | | | | | | | | | | 1 | |
| 306004 | SOIL CEMENT LINED DITCH - 12" | SY | 12010 | | | | | | | | | | | | | | | | 12010 | |
| 511000 | STRUCTURAL CONCRETE CLASS A | CY | 82 | | | | | | 242 | | | | | | | | | | 324 | |
| 540060 | REINFORCING BARS GRADE 60 | LB | 11879 | | | | | | 40621 | | | | | | | | | | 52500 | |
| 602000 | RIPRAP CLASS A | CY | 424 | | | | | | 590 | | | | | | | | | | 1014 | |
| 603100 | TEMPORARY SOIL STABILANT | AC | 8 | | | | | | | | | | | | | | | | 8 | |
| 603210 | EARTH DIKE | LF | 915 | | | | | | | | | | | | | | | | 915 | |
| 603220 | CHECK DAM TYPE I | LF | 190 | | | | | | | | | | | | | | | | 190 | |
| 603260 | CULVERT PROTECTION | SY | 1633 | | | | | | | | | | | | | | | | 1633 | |
| 606000 | METAL BARRIER W-BEAM | LF | 1450 | | | | | | | | | | | | | | | | 1450 | |
| 606010 | METAL BARRIER THRIE BEAM | LF | 225 | | | | | | | | | | | | | | | | 225 | |
| 606125 | METAL BARRIER ANCHORAGE TYPE MELT | EA | 8 | | | | | | | | | | | | | | | | 8 | |
| 607004 | BARBED WIRE FENCE - 4' | LF | 52960 | | | | | | | | | | | | | | | | 52960 | |
| 632000 | CLASS "A" SEEDING | AC | 13 | | | | | | | | | | | | | | | | 13 | |
| 632030 | CLASS "D" SEEDING | AC | 10 | | | | | | | | | | | | | | | | 10 | |
| 870001 | CONSTRUCTION STAKING BY THE CONTRACTOR | LS | | | 1 | | | | | | | | | | | | | | 1 | |

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

**SUMMARY OF QUANTITIES
(BID ALTERNATE 2)**

Time: 16:16:51
Date: 9/10/1997 ELP
Drawing File: L:\PROJECTS\2816A\STD\SRB-1-7.DWG

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 1-7

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 1-8 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

# SUMMARY OF QUANTITIES (BID ALTERNATE 3)

| ITEM NO. | ITEM | UNIT | ROADWAY | | CONSTRUCTION ENGINEERING | | BRIDGE | | MAJOR STRUCTURES | | CONSTRUCTION SIGNING | | PERMANENT SIGNING | | ROADWAY LIGHTING | | TRAFFIC SIGNALIZATION | | PROJECT TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL | ESTIMATE | FINAL |
| 401000 | PLANT MIX BITUMINOUS PAVEMENT (PMBP) | | | | | | | | | | | | | | | | | | | |
| | TYPE I, GRADE "A" | TON | 18020 | | | | | | | | | | | | | | | | 18020 | |
| 401210 | 60-70 BITUMINOUS MATERIAL | TON | 760 | | | | | | | | | | | | | | | | 760 | |
| 401300 | HYDRATED LIME | TON | 271 | | | | | | | | | | | | | | | | 271 | |
| 401400 | PMBP SAMPLING AND TESTING BY THE CONTRACTOR | LS | | | 1 | | | | | | | | | | | | | | 1 | |
| 403270 | POLYMER MODIFIED ASPHALT CEMENT-20 | TON | 240 | | | | | | | | | | | | | | | | 240 | |
| 404000 | OPEN GRADED FRICTION COURSE | TON | 3730 | | | | | | | | | | | | | | | | 3730 | |
| 408000 | BITUMINOUS MATERIAL FOR PRIME COAT | TON | 253 | | | | | | | | | | | | | | | | 253 | |
| 608404 | CONCRETE MEDIAN PAVEMENT-4" COLORED AND PATTERNED | SY | 2280 | | | | | | | | | | | | | | | | 2280 | |
| 618010 | TRAFFIC CONTROL MANAGEMENT | CAL/DAY | | | 30 | | | | | | | | | | | | | | 30 | |
| 667215 | SHREDDED BARK | CY | 2210 | | | | | | | | | | | | | | | | 2210 | |
| 701000 | PANEL SIGN | SF | | | | | | | | | | | 631 | | | | | | 631 | |
| 701100 | STEEL POST AND BASE POST FOR PANEL SIGN | LF | | | | | | | | | | | 1639 | | | | | | 1639 | |
| 703100 | ROAD DELINEATOR TYPE GUIDE | EA | | | | | | | | | | | 9 | | | | | | 9 | |
| 703110 | ROAD DELINEATOR TYPE HAZARD | EA | | | | | | | | | | | 4 | | | | | | 4 | |
| 70400 | REFLECTORIZED PAINTED MARKING | LF | | | | | | | | | | | 100900 | | | | | | 100900 | |
| 704540 | REFLECTORIZED PLASTIC LANE DROP ARROW | EA. | | | | | | | | | | | 3 | | | | | | 3 | |
| 706010 | SERVICE POLE (LIGHTING) | EA. | | | | | | | | | | | | | 1 | | | | 1 | |
| 706400 | LIGHTING CONTROL CABINET | EA. | | | | | | | | | | | | | 3 | | | | 3 | |
| 707740 | TYPE V STANDARD-40' ARM | EA. | | | | | | | | | | | | | 34 | | | | 34 | |
| 707752 | TYPE V STANDARD-50' W/2 ARMS | EA. | | | | | | | | | | | | | 10 | | | | 10 | |
| 716040 | ROADWAY LUMINAIRE TYPE 400 S | EA. | | | | | | | | | | | | | 54 | | | | 54 | |
| 711102 | SINGLE CONDUCTOR 2 | LF | | | | | | | | | | | | | 13820 | | | | 13820 | |
| 870001 | CONSTRUCTION STAKING BY THE CONTRACTOR | LS | | | 1 | | | | | | | | | | | | | | 1 | |

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

**SUMMARY OF QUANTITIES
(BID ALTERNATE 3)**

Time: 11:34:7
Date: 9/4/1997 ELP
Drawing File: L:\PROJECTS\2816A\STD\SRB-1-8.DWG

ENGR. FILE :

Connell Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 1-8

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 1-9 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

# SUMMARY OF QUANTITIES

## BASE BID

| ITEM NO. | ITEM | UNIT | SANITARY SEWER | |
|---|---|---|---|---|
| | | | ESTIMATE | FINAL |
| | **STA 267+65 - STA 298+63.71** | | | |
| | | | | |
| 0701.10 | TRCHG, BF & COMP, 18-36" SAS, < 8' DEEP, CIP | LF | ~~200~~ 0 | |
| 0701.11 | TRCHG, BF & COMP, 18-36" SAS, 8-12' DEEP, CIP | LF | ~~1000~~ 1882 | 2579 |
| 0701.12 | TRCHG, BF & COMP, 18-36" SAS, 12-16' DEEP, CIP | LF | ~~195~~ 150 | 296 |
| 0701.X4 | TRCHG, BF & COMP, 18-36" SAS, 16-20' DEEP, CIP | LF | ~~155~~ 353 | 0 |
| 0701.X5 | TRCHG, BF & COMP, 18-36" SAS, 20-24' DEEP, CIP | LF | ~~500~~ 547 | 118 |
| 0901.X1 | 18" PVC SDR35 PIPE, SAS, CIP | LF | 747 | 747 |
| 0901.X2 | 21" PVC SDR35 PIPE, SAS, CIP | LF | ~~2128~~ 2135 | 2128 |
| 0901.18 | 18" DIP, SAS, CIP | LF | 200 | 200 |
| 0920.07 | MH, 4' DIA, C OR E, 6'-10' DEEP, CIP | EA | 5 | 5 |
| 0920.08 | MH, 4' DIA, C OR E, 10'-14' DEEP, CIP | EA | 5 | 5 |
| 0920.09 | MH, 4' DIA, XTRA DEPTH, > 14' DEEP, CIP | VF | 20 | 15.7 |
| 0901.X1-01 | INCREASED COST FOR FIELD LOCK GASKETS | LS | | LS |
| 109600 | COMPENSATION FOR COSTS INCURRED ON ELIMINATED SANITARY SEWER ITEMS | LS | | LS |

## ADDITIVE ALTERNATE NO. 1

| ITEM NO. | ITEM | UNIT | SANITARY SEWER | |
|---|---|---|---|---|
| | | | ESTIMATE | FINAL |
| | **STA 298+63.71** | | | |
| | | | | |
| | | | | |
| 0920.XX | 8' DIAMETER TYPE 'E' MANHOLE ON COORS | LS | 1 | 0 |
| | INTERCEPTOR, CONNECT 21" RIO BRAVO | | | |
| | INTERCEPTOR TO NEW MANHOLE | | | |
| 701.13 | TRCHG, BF & COMP, 18"-36" SAS, 16'-20' DEEP | LF | 53 | 0 |
| 901.XX | 21' PVC SDR 35 PIPE, SAS | LF | 53 | 0 |

## ADDITIVE ALTERNATE 2

| ITEM NO. | ITEM | UNIT | SANITARY SEWER | |
|---|---|---|---|---|
| | | | ESTIMATE | FINAL |
| | **STA 185+00 - STA 267+65** | | | |
| 0701.03 | TRCHG, BF & COMP, 4-15" SAS, 12-16' DEEP, CIP | LF | 1125 | 1185 |
| 0701.X1 | TRCHG, BF & COMP, 4-15" SAS, 16-20' DEEP, CIP | LF | 5335 | 5316 |
| 0701.X2 | TRCHG, BF & COMP, 4-15" SAS, 20-24' DEEP, CIP | LF | 1005 | 1105 |
| 0701.X3 | TRCHG, BF & COMP, 4-15" SAS, 24-28' DEEP, CIP | LF | 354 | 463 |
| 0701.11 | TRCHG, BF & COMP, 18-36" SAS, 8-12' DEEP, CIP | LF | ~~1350~~ 901 | 1229 |
| 0701.12 | TRCHG, BF & COMP, 18-36" SAS, 12-16' DEEP, CIP | LF | ~~1215~~ 1218 | 1790 |
| 0701.X4 | TRCHG, BF & COMP, 18-36" SAS, 16-20' DEEP, CIP | LF | ~~750~~ 1350 | 332 |
| 0701.X5 | TRCHG, BF & COMP, 18-36" SAS, 20-24' DEEP, CIP | LF | ~~100~~ 0 | 0 |
| 0901.03 | 8" PVC SDR35 PIPE, SAS, CIP | LF | 507 | 508 |
| 0901.04 | 10" PVC SDR35 PIPE, SAS, CIP | LF | 512 | 539 |
| 0901.05 | 12" PVC SDR35 PIPE, SAS, CIP | LF | 1400 | 1622 |
| 0901.06 | 15" PVC SDR35 PIPE, SAS, CIP | LF | 5400 | 5400 |
| 0901.X1 | 18" PVC SDR35 PIPE, SAS, CIP | LF | 2701 | 2701 |
| 0901.X2 | 21" PVC SDR35 PIPE, SAS, CIP | LF | 768 | 768 |
| 0920.08 | MH, 4' DIA, C OR E, 10'-14' DEEP, CIP | EA | 21 | 23 |
| 0920.09 | MH, 4' DIA, XTRA DEPTH, > 14' DEEP, CIP | VF | 67 | 79.5 |
| 203100-001 | BORROW | CY | 0 | 57942 |
| 632000 | CLASS "A" SEEDING | ACRE | 0 | 26.544 |

## ADDITIVE ALTERNATE NO. 3

| ITEM NO. | ITEM | UNIT | SANITARY SEWER | |
|---|---|---|---|---|
| | | | ESTIMATE | FINAL |
| | **STA 64+00 (BOP) - STA 185+00** | | | |
| | | | | |
| | | | | |
| 0701.02 | TRCHG, BF & COMP, 4-15" SAS, 8-12' DEEP, CIP | LF | 1450 | 0 |
| 0701.03 | TRCHG, BF & COMP, 4-15" SAS, 12-16' DEEP, CIP | LF | 3266 | 0 |
| 0701.X1 | TRCHG, BF & COMP, 4-15" SAS, 16-20' DEEP, CIP | LF | 5525 | 0 |
| 0701.X2 | TRCHG, BF & COMP, 4-15" SAS, 20-24' DEEP, CIP | LF | 850 | 0 |
| 0701.X3 | TRCHG, BF & COMP, 4-15" SAS, 24-28' DEEP, CIP | LF | 550 | 0 |
| 0901.03 | 8" PVC SDR35 PIPE, SAS, CIP | LF | 903 | 0 |
| 0901.04 | 10" PVC SDR35 PIPE, SAS, CIP | LF | 3338 | 0 |
| 0901.05 | 12" PVC SDR35 PIPE, SAS, CIP | LF | 3450 | 0 |
| 0901.06 | 15" PVC SDR35 PIPE, SAS, CIP | LF | 3950 | 0 |
| 0920.07 | MH, 4' DIA, C OR E, 6'-10' DEEP, CIP | EA | 1 | 0 |
| 0920.08 | MH, 4' DIA, C OR E, 10'-14' DEEP, CIP | EA | 21 | 0 |
| 0920.09 | MH, 4' DIA, XTRA DEPTH, > 14' DEEP, CIP | VF | 68 | 0 |

## GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THROUGH UPDATE NO.5. APPLICABLE TECHNICAL SPECIFICATIONS FOR THIS PROJECT INCLUDE SECTIONS: 101, 102, 105, 106, 117, 161, 701, 801, 901, 905 AND 920.
2. FUNDING FOR THE SANITARY SEWER LINE IS FROM A LEGISLATIVE GRANT AND IS NON-PARTICIPATING.

NOTE:
TEXT SHOWN IN BOLD FONT INDICATES AS-BUILT CHANGES OR ADDITIONS

**AS-BUILT**

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

COUNTY OF BERNALILLO
PUBLIC WORKS DEPARTMENT

RIO BRAVO BOULEVARD
SANITARY SEWER

GENERAL NOTES AND
SUMMARY OF QUANTITIES

Connell Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 1-9

Time: 16:25:42
Date: 5/6/1998 BRS
Drawing File: L:\PROJECTS\28164\Asbuilts\Sb-1-9.dwg

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 1-10 |

## GENERAL NOTES

1. SHRINKAGE FACTOR: THE EARTHWORK QUANTITIES ARE BASED ON A SHRINKAGE FACTOR OF 30% IN ROADWAY EMBANKMENT.

2. "R" VALUE: THE DESIGN "R" VALUE FOR THIS PROJECT IS 60. MATERIAL WITH AN "R" VALUE LESS THAN THE DESIGN "R" VALUE SHALL NOT BE PLACED IN OR BE ALLOWED TO REMAIN WITHIN THE TOP TWO FEET OF THE FINISHED SUBGRADE. THIS SHALL INCLUDE DETOUR SUBGRADES.

3. EARTHWORK HAUL: THE EARTHWORK HAUL ON THIS PROJECT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR ITEMS 203001 UNCLASSIFIED EXCAVATION AND 203010 BORROW, AS APPLICABLE, AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

4. PAVEMENT DROP-OFF POLICY: IF A PAVEMENT DROP-OFF IS CREATED DURING CONSTRUCTION, THE CONTRACTOR SHALL INITIATE PROTECTIVE ACTION IN ACCORDANCE WITH THE HIGHWAY DEPARTMENTS'S CURRENT "DROP-OFF POLICY." THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR. FOR THIS PROJECT, IT IS ANTICIPATED THAT A CASE II DROP-OFF WILL APPLY. THIS IS DEFINED AS AN AREA ADJACENT TO AN EXISTING TRAVEL LANE WITH A BUFFER ZONE LESS THAN 6' IN WIDTH. THIS REQUIRES THAT A SLOPE OF 3:1 OR FLATTER BE CONSTRUCTED WHEREVER POSSIBLE; HOWEVER, A MAXIMUM 3" DROP-OFF WILL BE ALLOWED WITHOUT ANY SPECIAL TREATMENT. VERTICAL PANELS AT 100' SPACING SHALL BE PROVIDED TO DELINEATE DROP-OFF. IF CONDITIONS VARY FROM THIS DESCRIBED, CONTACT PROJECT MANAGER FOR DIRECTION.

5. WARPING OF SLOPES: THE CONTRACTOR SHALL WARP SLOPES WHERE NECESSARY TO STAY WITHIN THE RIGHT-OF-WAY OR CONSTRUCTION EASEMENT LIMITS.

6. HYDRATED LIME: IF THE HIGHWAY DEPARTMENT MATERIALS LABORATORY DETERMINES THAT HYDRATED LIME SHALL BE ADDED TO THE OGFC AFTER CONDUCTING THE NECESSARY TESTS, THEN THE HYDRATED LIME WILL BE MEASURED AND PAID FOR UNDER ITEM 401150 HYDRATED LIME AT HE CONTRACT UNIT PRICE FOR ITEM 401150.

7. MATERIAL PITS: NO MATERIAL PITS HAVE BEEN DESIGNATED FOR THIS PROJECT. THE CONTRACTOR MAY OBTAIN SPECIFICATION BORROW OR SURFACING MATERIAL FROM ANY ACCEPTABLE SOURCE. ALL MATERIAL PIT ACTION SHALL BE GOVERNED BY SECTION 106 OF THE STANDARD SPECIFICATIONS.

8. CONSTRUCTION CLEAR ZONE: THE CONSTRUCTION CLEAR ZONE FOR THIS PROJECT IS 26 FEET FROM THE EDGE OF THE DRIVING LANE. THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL WITHIN THE CONSTRUCTION CLEAR ZONE UNLESS THE EQUIPMENT OR MATERIAL IS PROPERLY SHIELDED UTILIZING CURRENT SAFETY DESIGN AND INSTALLATION METHODS. THE SAFETY DESIGN FOR SHIELDING SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE APPROVED BY THE PROJECT MANAGER BEFORE IMPLEMENTING. THIS WORK, INCLUDING DESIGN, INSTALLATION AND REMOVAL OF THE SHIELDING, SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

9. MONUMENTATION INFORMATION: INFORMATION PERTAINING TO THE MONUMENTATION PLANS FOR THIS PROJECT MAY BE OBTAINED FROM THE BERNALILLO COUNTY PROJECT MANAGER.

10. PROTECTION OF SURVEY MONUMENTS: THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS (MARK) FROM DAMAGE PRIOR TO INITIATING CONSTRUCTION. IF DURING THE COURSE OF CONSTRUCTION OPERATIONS, THE CONTRACTOR DISTURBS OR DESTROYS A MARK, THE CONTRACTOR SHALL ESTABLISH A NEW MARK IN COMPLIANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE "GEODETIC MARK PRESERVATION GUIDEBOOK", NATIONAL GEODETIC SURVEY, MARCH 1990, CONTACT: NGS MARK PRESERVATION CENTER – NOAA, RC – 325 BROADWAY – BOULDER, COLORADO – ZIP CODE 80303 – TELEPHONE (303) 497-6530, FTS 320-6530.

11. REMOVALS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO COMPLETE THE PROJECT. ADDITIONAL REMOVALS NOT SHOWN ON THE PLANS WILL BE DESIGNATED BY THE PROJECT MANAGER. THIS WORK WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR ITEM 202001, "REMOVAL OF STRUCTURES AND OBSTRUCTIONS" AND THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR UNLISTED REMOVALS.

12. THE CONTRACTOR SHALL BE REQUIRED TO PROPERLY HANDLE ANY OLD ROADWAY ASPHALT REMOVED OR PMBP USED ON DETOURS AT THE DIRECTION OF THE PROJECT MANAGER. OLD ROADWAY ASPHALT AND THE PMBP FOR DETOURS CAN BE RECYCLED, STOCKPILED FOR FUTURE USE, OR DISPOSED OF PROPERLY. THIS MATERIAL MAY NOT BE DISPOSED OF OUTSIDE THE NEW ROADWAY SUBGRADE WITHOUT COMPLIANCE WITH THE REGULATIONS OF THE NEW MEXICO SOLID WASTE ACT. PROPER DISPOSAL WILL CONSIST OF PLACEMENT IN AN APPROVED LANDFILL.

13. SALVAGEABLE MATERIALS: EXISTING SIGNAL EQUIPMENT SHALL BE SALVAGED AND TRANSPORTED TO THE CITY OF ALBUQUQERQUE PINO YARDS. ALL OTHER SALVAGEABLE MATERIALS FROM THIS PROJECT ARE TO BE HAULED AND STOCKPILED AT BERNALILLO COUNTY MAINTENANCE YARD. HAUL OF SUCH MATERIAL SHALL BE PERFORMED DURING NORMAL WORKING HOURS AS DIRECTED BY THE PROJECT MANAGER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 202001 REMOVAL OF STRUCTURES & OBSTRUCTIONS.

14. DISPOSAL OF UNSUITABLE MATERIALS & DEBRIS: ITEMS INDICATED FOR REMOVAL WITHOUT SALVAGE, UNSUITABLE CONSTRUCTION MATERIALS AND DEBRIS FROM CLEARING AND GRUBBING ARE TO BE PLACE IN AN ENVIRONMENTALLY SUITABLE DISPOSAL SITE DECIDED UPON AND COORDINATED WITH APPROPRIATE REGULATORY AGENCIES BY THE CONTRACTOR, WHO WILL NOTIFY THE PROJECT MANAGER IN WRITING. BORROW MATERIAL, ROCK WASTE, VEGETATIVE DEBRIS, ETC. CANNOT BE PLACED IN WETLANDS OR AREAS THAT WILL IMPACT ENDANGERED SPECIES OR OR ARCHEOLOGICAL RESOURCES. AN ARCHEOLOGICAL SURVEY AND ENVIRONMENTAL CLEARANCE MUST BE OBTAINED BEFORE DISPOSAL SITES ARE ACCEPTED (SEE SUPPLEMENTAL SPECIFICATION 107-24). THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IN WRITING OF THE DETAILS OF DISPOSAL OPERATIONS.

## GENERAL NOTES (CONT'D.)

15. REPORTING & CLEANUP OF SPILLS: THE CONTRACTOR WILL REPORT AND RESPOND TO ANY SPILLS OF OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC OR CORROSIVE SUBSTANCES, ETC. A SPILL IS DEFINED AS ANY RELEASE OF A CORROSIVE, HAZARDOUS, TOXIC OR RADIOACTIVE SUBSTANCE THAT MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. REPORTS OF SPILLS WILL BE MADE IMMEDIATELY TO THE NEW MEXICO ENVIRONMENTAL DEPARTMENT EMERGENCY RESPONSE TEAM AT 827-4308 OR 470-3657. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF ANY SPILL ASSOCIATED WITH PROJECT CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPORTING ANY DISCOVERIES OF PAST SPILLS OR CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION.

16. THE CONTRACTOR SHALL CLEAN ALL EXISTING STRUCTURES THAT ARE TO REMAIN OPERATIONAL, PRIOR TO INITIATING STRUCTURE EXTENSION WORK. ALL STRUCTURES SHALL BE CLEAN AT THE TIME OF FINAL PROJECT ACCEPTANCE. THIS WORK WILL BE CONSIDERED AS INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

17. THE CONTRACTOR IS HEREBY ADVISED THAT UTILITY RELOCATION BY UTILITY COMPANIES WILL BE DONE CONCURRENTLY WITH CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE FOR UTILITY WORK IN CONJUNCTION WITH CONSTRUCTION OPERATIONS AND SHALL COORDINATE THE SCHEDULING OF WORK WITH THE RESPECTIVE UTILITY COMPANIES. THE CONTRACTOR SHALL PROVIDE FOR THESE CONTINGENCIES WHEN BIDDING THE PROJECT AND NO CLAIM FOR DELAYS DUE TO UTILITY WORK WILL BE ALLOWED.

18. THE AIR POLLUTION CONTROL REGULATIONS OF THE ALBUQUERQUE-BERNALILLO COUNTY AIR QUALITY CONTROL BOARD LIMITS EMISSION OF PARTICULATE MATTER AND THE USE OF CUT BACK ASPHALT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLARIFY RESTRICTIONS WITH THE ENVIRONMENTAL HEALTH HEALTH DEPARTMENT PRIOR TO SUBMITTAL OF BIDS TO AVOID CONFLICT WITH WITH THE REGULATIONS, 766-2638.

19. WHEN TRAFFIC CONTROL DEVICES ARE REQUIRED AFTER DARK, CHANNELIZATION DRUMS OR BARRICADES SHALL HAVE HIGH INTENSITY WARNING LIGHTS (TYPE "C"), UNLESS OTHERWISE DIRECTED BY THE PROJECT MANAGER. (REFER TO M.U.T.C.D. MANUAL FOR DEFINITION OF TYPES OF WARNING LIGHTS.)

20. THE CONTRACTOR SHALL KEEP THE PUBLIC APPRAISED THROUGH THE LOCAL NEWS MEDIA FOR THE LIFE OF THE PROJECT OF THE VARIOUS CONSTRUCTION OPERATIONS INVOLVING STREET OR LANE CLOSURES OR ANY OTHER PERTINENT INFORMATION RELATING TO TRAFFIC MOVEMENT. INFORMATION SENT TO MEDIA SHALL BE APPROVED BY THE PROJECT MANAGER PRIOR TO BEING SUBMITTED TO THE MEDIA. THIS WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OF PAYMENT WILL BE MADE THEREFOR.

21. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF A FIFTY (50) TON MAXIMUM NON-VIBRATING ROLLER IN COORS BOULEVARD TO OBTAIN REQUIRED COMPACTION IN EMBANKMENT AND SUBGRADES. THE USE OF HEAVIER EQUIPMENT COULD DAMAGE UNDERGROUND UTILITIES OR OTHER PERMANENT STRUCTURES.

22. TEMPORARY FENCING SHALL BE BUILT AT THE FOLLOWING LOCATION: STA. 270+00 TO 271+50 PRIOR TO EARTHMOVING ACTIVITIES FOR THIS PROJECT. THE LOCATION IS SHOWN ON THE PLAN AND PROFILE SHEETS. CONTACT THE N.M.S.H.T.D. ARCHEOLOGIST AT 827-5235 TO COORDINATE THIS ACTIVITY.

23. CONCRETE CUT OFF CURBS AND EROSION CONTROL APRONS WILL BE CONSIDERED INCIDENTAL TO THE SOIL CEMENT LINED DITCHES AND PIPES INTO THE RETENTION PONDS.

24. THE HAZARD COMMUNICATION (RIGHT TO KNOW) LAW REQUIRES THAT EVERY EMPLOYEE OF ALL EMPLOYERS MUST BE INFORMED WHEN WORKING WITH OR EXPOSED TO A HAZARDOUS SUBSTANCE. THE CONTRACTOR MUST SUBMIT A MSDS FOR ANY AND ALL HAZARDOUS SUBSTANCES THAT THEY WILL BE USING ON THIS PROJECT. MSDS'S MUST BE DELIVERED IN SUFFICIENT TIME FOR EMPLOYEES TO STUDY PRIOR TO ANY EXPOSURE THEY MAY INCUR.

## GENERAL NOTES REGARDING M.R.G.C.D. FACILITIES

1. ANY WORK TO BE PERFORMED WITHIN THE MIDDLE RIO GRANDE CONSERVANCY DISTRICT RIGHT-OF-WAY SHALL BE CLOSELY COORDINATED WITH THE MIDDLE RIO GRANDE CONSERVANCY DISTRICT; CALL 247-0234.

2. NO WORK IS TO BE DONE ON FACILITIES OR STRUCTURES BELONGING TO, OR OPERATED BY, THE MIDDLE RIO GRANDE CONSERVANCY DISTRICT, (M.R.G.C.D.) BETWEEN MARCH 1 AND OCTOBER 31 INCLUSIVE. HOWEVER WORK MAY BE PERMITTED BY THE M.R.G.C.D. IF IT CAN BE SHOWN THAT THE WORK WILL NOT INTERFERE WITH OPERATIONS OF THE M.R.G.C.D. FACILITY. ALL WORK TO BE DONE WITHIN THE M.R.G.C.D. FACILITIES MUST BE APPROVED BY THE M.R.G.C.D. ENGINEER PRIOR TO COMMENCING WORK.

3. THE CONTRACTOR SHALL NOT STORE EQUIPMENT, NEW MATERIALS OR DEBRIS WITHIN DISTRICT RIGHT-OF-WAY WHICH MAY INTERFERE WITH OPERATIONS AND MAINTENANCE OF THE M.R.G.C.D. FACILITY.

4. THE CONTRACTOR SHALL NOT SERVICE VEHICLES OR EQUIPMENT WITHIN DISTRICT RIGHT-OF-WAY.

5. SEEDING OF DISTURBED AREAS WITHIN DISTRICT RIGHT-OF-WAYS IS REQUIRED PER THE M.R.G.C.D. NATIVE GRASS SEEDING SPECIFICATION.

6. THE CONTRACTOR MUST MAINTAIN A MINIMUM COVER OF 3' OVER ALL CULVERT CROSSINGS USED FOR ACCESS TO THE PROJECT SITE.

7. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING DAMAGES TO STRUCTURE/ STRUCTURES WITHIN DISTRICT RIGHT-OF WAYS THAT MAY OCCUR DUE TO THE CONTRACTOR ACTIVITIES.

8. ALL CULVERT CROSSINGS MUST BE RESTORED TO THE SATISFACTION OF THE M.R.G.C.D.

9. ALL SALVAGEBLE CULVERTS, IRRIGATION GATES, ETC. MUST BE RETURNED TO THE DISTRICT.

**AS-BUILT**

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

GENERAL NOTES

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 1-10

Time: 16:33:11
Date: 5/6/1999 BRS
Drawing File: L:\PROJECTS\28164\asbuilts\Sht-1-10.dwg

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 1-11 |

## SPECIAL PROVISIONS

TITLE

BERNALILLO COUNTY SPECIAL PROVISIONS:

1. THE CONTRACTOR SHALL PROVIDE TO BERNALILLO COUNTY SURVEY DATA IN A DIGITIZED FORM ON 3½" PC COMPATIBLE DISKETTE IN PACSOFT FILE, AUTOCAD FILE, DXF FILE, OR ASCII POINT FILE FORMAT. THE SURVEY DATA WILL INCLUDE POINTS WITH DESCRIPTORS OR OTHERWISE IDENTIFIED FOR ALL KEY FEATURES INCLUDING BUT NOT LIMITED TO: CENTERLINES, FLOWLINES, BACK OR TOE OF CURB, TOE OF SLOPE, STRUCTURE LOCATIONS, AND ANY OTHER POINT REQUIRED TO PROPERLY CHARACTERIZE THE PROJECT. THE SURVEY WILL BE TIED INTO AN ESTABLISHED COORDINATE SYSTEM TO FIX THE ALIGNMENT, LOCATION, AND ELEVATIONS. THE DATA AS PROVIDED SHALL BE USABLE TO GENERATE AREAS AND VOLUMES AS REQUIRED FOR CONTRACT PAYMENTS. THE CONTRACTOR SHALL CERTIFY THAT THE DATA IS CORRECT AND THAT DATA ENTRY HAS BEEN CHECKED FOR ANY INPUT ERRORS. THIS DATA SHALL BE PROVIDED FOR ALL CONTRACT ITEMS WHICH INVOLVE CONSTRUCTION STAKING TO DETERMINE QUANTITIES REQUIRED, DIRECTLY OR INDIRECTLY, FOR PAYMENT AND COMPLETION. THIS SPECIFICATION WILL SUPERSEDE OTHER SURVEY STIPULATIONS FOR BORROW MATERIAL.

| | |
|---|---|
| MODIFYING SECTION 101-ABBREVIATIONS, DEFINITIONS AND TERMS | (11/14/95) |
| MODIFYING SECTION 106-CONTROL OF MATERIALS | (7/24/95) |
| MODIFYING SECTION 109-MEASUREMENT AND PAYMENT | (11/15/95) |
| MODIFYING SECTION 206-EXCAVATION & BACKFILL FOR CULVERTS & MINOR STRUCTURES | (7/10/96) |
| MODIFYING SECTION 304-BASE COURSE AND SUBBASE | (11/02/95) |
| MODIFYING SECTION 401-D-PAVEMENT SMOOTHNESS MEASUREMENT | (12/20/96) |
| MODIFYING SECTION 404-OPEN GRADED FRICTION COURSE (OGFC) | (1/07/97) |
| MODIFYING SECTION 408-PRIME COAT | (8/30/96) |
| MODIFYING SECTION 510-PORTLAND CEMENT CONCRETE | (11/14/96) |
| MODIFYING SECTION 511-CONCRETE STRUCTURES | (5/06/94) |
| MODIFYING SECTION 511-A-REINFORCED CONCRETE FOR MINOR STRUCTURES | (7/29/94) |
| MODIFYING SECTION 511-C-PIER AND ABUTMENT BEARING MODIFICATION | (7/29/94) |
| MODIFYING SECTION 512-SUPERSTRUCTURE CONCRETE | (6/25/96) |
| MODIFYING SECTION 532-PENETRATING WATER REPELLENT TREATMENT | (6/28/94) |
| MODIFYING SECTION 560-ELASTOMERIC BEARING PADS | (5/14/96) |
| MODIFYING SECTION 602-SLOPE AND EROSION PROTECTION STRUCTURES | (12/3/96) |
| MODIFYING SECTION 603-TEMPORARY SEDIMENT AND EROSION CONTROL | (9/10/96) |
| MODIFYING SECTION 606-METAL AND CONCRETE WALL BARRIER | (1/24/97) |
| MODIFYING SECTION 618-TRAFFIC CONTROL MANAGEMENT | (9/3/96) |
| MODIFYING SECTION 632-SEEDING | (3/28/96) |
| MODIFYING SECTION 702-TRAFFIC CONTROL DEVICES FOR CONSTRUCTION | (6/14/96) |
| MODIFYING SECTION 702-A-TRAFFIC CONTROL PLAN | (3/28/95) |
| MODIFYING SECTION 704-PAVEMENT MARKINGS | (1/24/97) |

## SUPPLEMENTAL SPECIFICATIONS

TITLE

NEW SECTION 212.50 - M.R.G.C.D. NATIVE GRASS SEEDING.

NEW SECTION 306 - SOIL CEMENT FOR STORM DRAINAGE FACILITIES (AMAFCA REQUIREMENT)

CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS (SANITARY SEWER CONSTRUCTION) 1986 EDITION THROUGH UPDATE SIX.

| | |
|---|---|
| SECTION 101 | PORTLAND CEMENT CONCRETE |
| SECTION 102 | STEEL REINFORCING |
| SECTION 105 | CONCRETE CURING COMPOUND |
| SECTION 106 | CEMENT MORTAR AND GROUT |
| SECTION 121 | PLASTIC PIPE |
| SECTION 129 | DUCTILE IRON PIPE |
| SECTION 161 | GRAY IRON CASTINGS |
| SECTION 701 | TRENCHING, EXCAVATION AND BACKFILL |
| SECTION 901 | SANITARY SEWER COLLECTOR AND INTERCEPTOR FACILITIES |
| SECTION 920 | SANITARY AND STORM SEWER MANHOLES |

CITY OF ALBUQUERQUE STANDARD DRAWINGS (SANITARY SEWER CONSTRUCTION) IN CONTRACT DOCUMENTS.

| | |
|---|---|
| DWG. 2102 | MANHOLE TYPE "E" |
| DWG. 2110 | MANHOLE FRAME AND COVER |
| DWG. 2111 | MANHOLE COVER ADJUSTMENT RING |

## INCIDENTAL ITEMS

1. EARTHWORK, GEN. NOTE #3.
2. PAVEMENT DROP-OFF, GEN. NOTE #4.
3. EQUIPMENT AND MATERIAL WITHIN CLEAR ZONE, GEN. NOTE # 8.
4. CLEAN EXISTING STRUCTURES, GEN. NOTE #17.
5. CONTRACTOR TO KEEP PUBLIC APPRAISED, GEN. NOTE # 21.
6. EROSION CONTROL APRONS, NOTE #25.
7. 9 MIL. PLASTIC IN MEDIANS, SEE DETAIL SHEET 2-3.
8. CUT OFF CURB AND EROSION CONTROL, SEE SHEET 2-4.
9. SAWCUTTING ASPHALT PAVEMENT TO MATCH ELEVATIONS.
10. CONCRETE AND STRUCTURAL STEEL FOR GATES, SEE SHEET 2-27.
11. SALVAGE AND HAUL, SEE GENERAL NOTE #13 AND SHEET 2-9.
12. 3/4" HOLES AND EPOXY GROUT, SEE SHEET 2-29.
13. EXCAVATION, BACKFILL, WEEP HOLES, WATERSTOP, SURFACE TEXTURE FOR RETAINING WALL, SEE SHEET 2-37.
14. BOLTS, WASHERS, SPACER PIPE, BEARING PLATE, SEE SHEET 2-38.
15. YELLOW REFLECTIVE SHEETING, SEE SHEET 2-40.
16. EARTH BERM, SEE SHEET 3-34.
17. BRIDGE NUMBER PLATES, PREFORMED BITUMINOUS JOINT FILLER, ELASTOMERIC BEARING PADS, DECK SLAB SURFACE TEXTURING, REINFORCING STRAPS, SEE SHEET 5-1.
18. ANCHOR BOLTS, SEE SHEET 6-1.
19. GROUTED RIP RAP SLOPE PROTECTION, SEE SHEETS 10-2, 10-5, 10-6
20. PLUG EXISTING 48" RCP OUTLET IN AMOLE CHANNEL WALL SEE SECTION E-E SHT. 2-29
21. EXPANSION JOINT DOWEL, SEE DETAIL SHT. 2-29
22. STA. 267+71.5 CHANNEL EXPANSION JOINT. SEE SECTION D-D SHT. 2-31
23. STA. 274+85 REMOVE & REPLACE PIPE ACCESS GATE.
24. OTHER INCIDENTALS AS NOTED THROUGHOUT THE PLAN SET.

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT
RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

SPECIAL PROVISIONS/
SUPPLEMENTAL TECHNICAL
SPECIFICATIONS/INCIDENTAL ITEMS

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

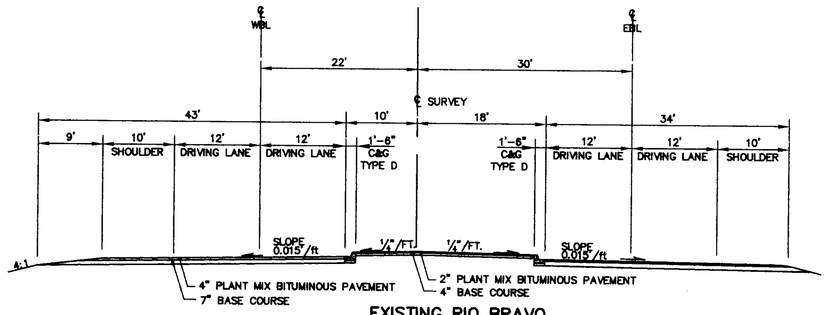
Time: 10:28:17
Date: 4/04/1997 RKA
Drawing File: L:\PROJECTS\28184\STD\SRB-1-11

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 1-11

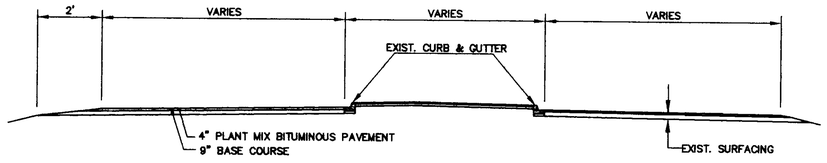
| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-2 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.




## EXISTING RIO BRAVO TYPICAL ROADWAY SECTION

NOT TO SCALE
(TAKEN FROM N.M.P. ST(M)-4008(202) AS BUILT PLANS)




## EXISTING COORS BOULEVARD TYPICAL ROADWAY SECTION

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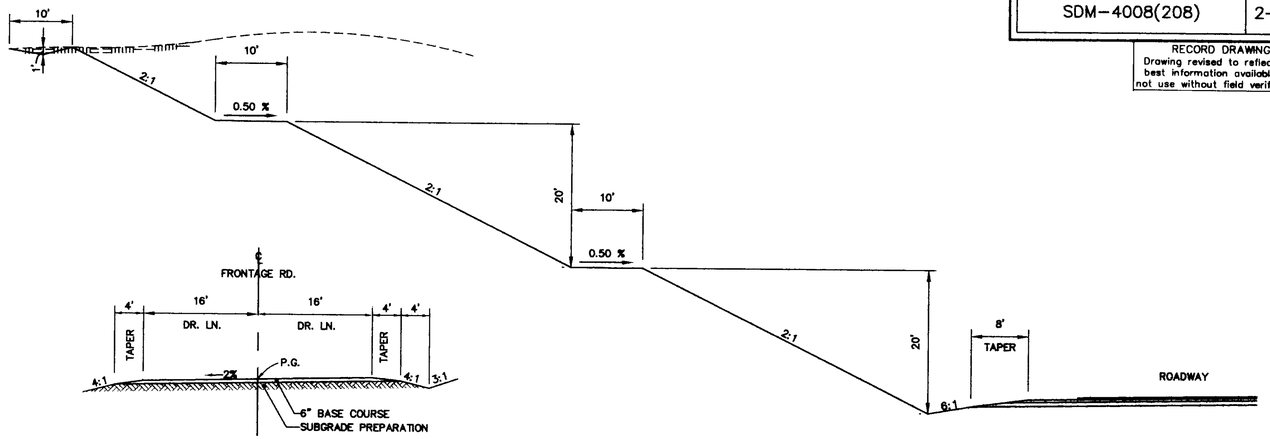
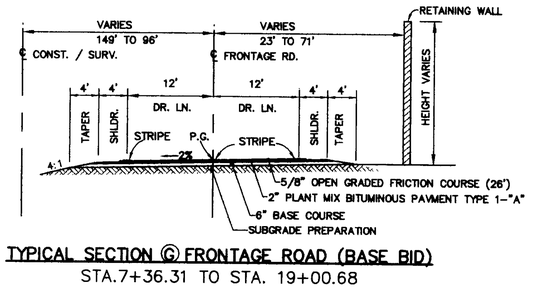



## FRONTAGE ROAD STA. 5+00 TO STA. 7+36.31 (BASE BID)

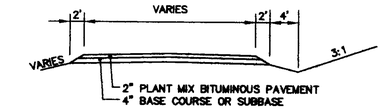
## BENCHING DETAIL (BID ALT. 2)

STA. 131+00 TO STA. 138+00 RT.
STA. 131+00 TO STA. 139+00 LT.

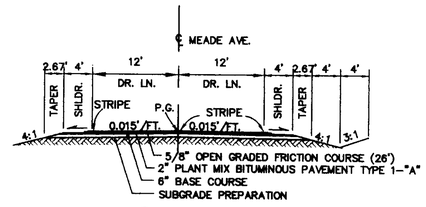



## TYPICAL SECTION Ⓖ FRONTAGE ROAD (BASE BID)

STA.7+36.31 TO STA. 19+00.68

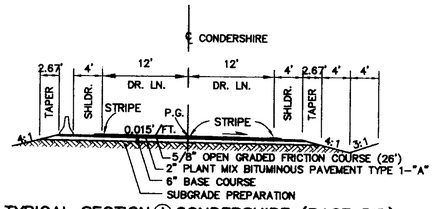



## TURNOUT TYPICAL SECTION (BASE BID)




## TYPICAL SECTION Ⓗ MEADE AVENUE (BASE BID)

STA.7+30 TO STA.15+72.23




## TYPICAL SECTION Ⓘ CONDERSHIRE (BASE BID)

STA.8+35.94 TO STA. 8+76.15

CONCRETE WALL BARRIER
STA. 7+77.99 TO STA. 8+82.99

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

# ROADWAY TYPICAL SECTIONS

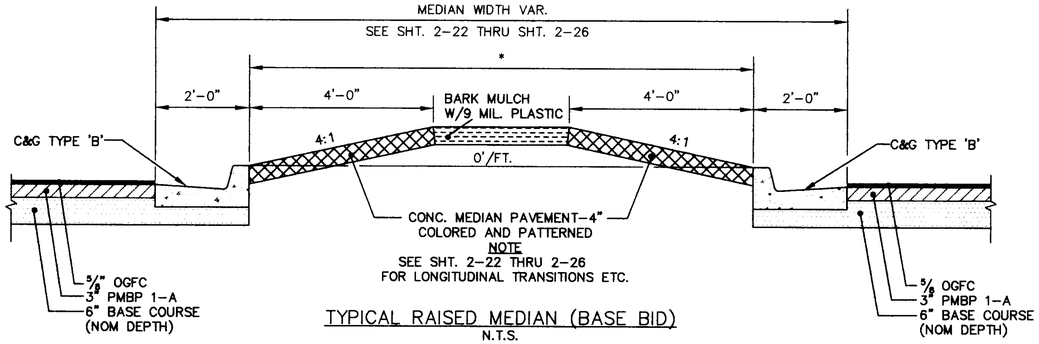
Time: 7:15:53
Date: 3/27/1997 BY RKA
Drawing File: L:\PROJECTS\28164\STD\SRB-2-2

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-2

| F.H.W.A. REGION NO. 6 | SHEET |
|---|---|
| NEW MEXICO PROJECT NO. | NO. |
| SDM-4008(208) | 2-3 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

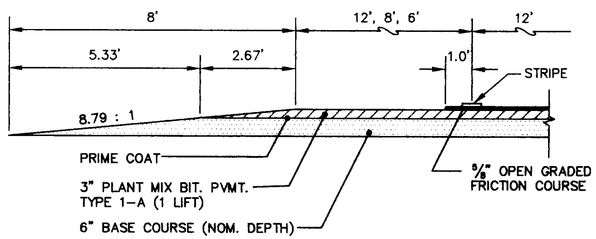



TYPICAL RAISED MEDIAN (BASE BID)
N.T.S.

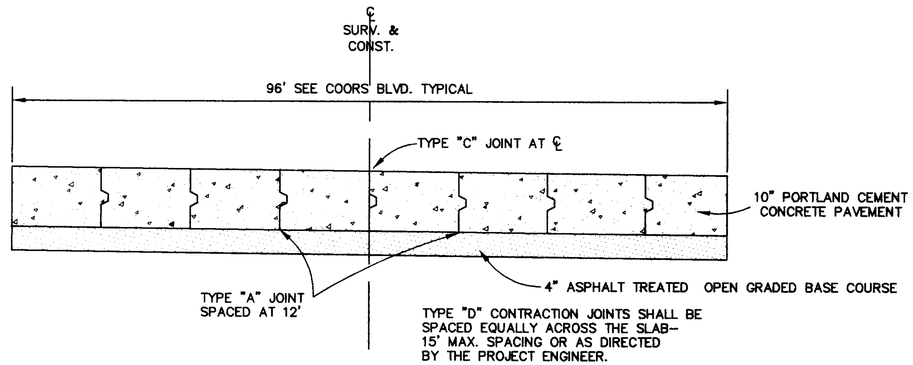
* 4" CONC. MEDIAN PAVEMENT LESS THAN 8' WIDTH

Rio Bravo
* 296+00.00 298+62.14
* 300+50.29 303+86.98

Coors Blvd.
* 12+85.46 15+21.77
* 17+02.32 20+81.59
* 22+26.10 23+23.03

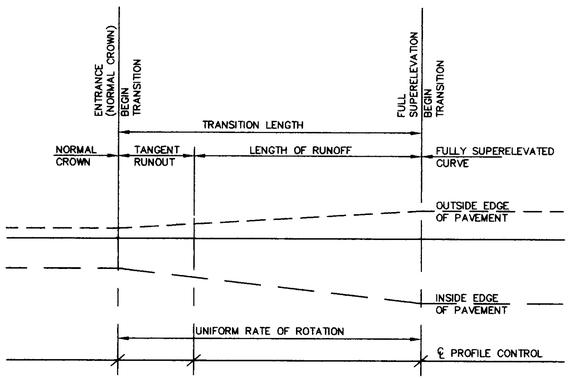



SHOULDER DETAIL RT & LT
N.T.S.



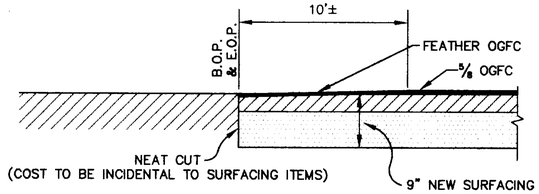

TYPICAL CONCRETE PAVEMENT SLAB (BASE BID)
N.T.S.

REFER TO STANDARD DWG. LJD-001

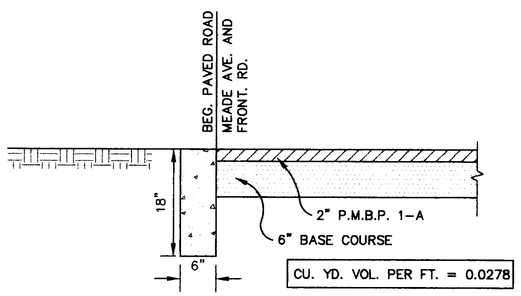



SUPERELEVATION TRANSITION

SE RUNOFF + TAN RUNOFF = TOTAL LENGTH
2/3 OUTSIDE CURVE
P.C. –
1/3 INSIDE CURVE
1/3 INSIDE CURVE
P.T. –
2/3 OUTSIDE CURVE




SURFACE CONNECTION AT B.O.P. & E.O.P.
N.T.S.




CUT OFF CURB DETAIL (BASE BID)
N.T.S.

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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

**MISCELLANEOUS ROADWAY DETAILS**

Time: 7:30:5
Date: 3/27/1997 BY RKA
Drawing File: L:\PROJECTS\28164\STD\SRB-2-3

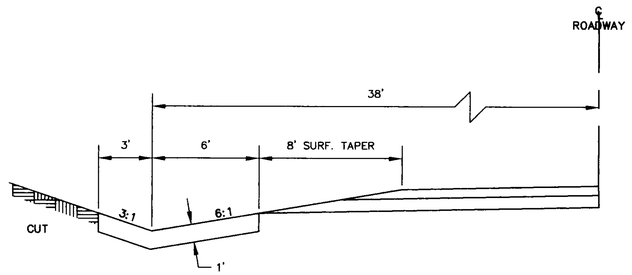
ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-3

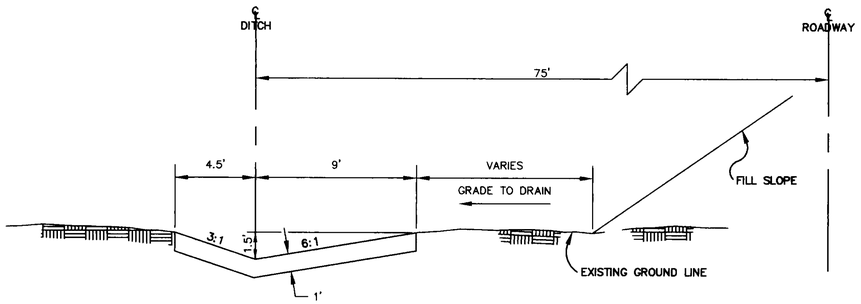
| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-4 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification




SOIL CEMENT LINED DITCH IN CUT (BID ALT. 2)

STA. 131+00 TO STA. 145+50 RT.
STA. 131+00 TO STA. 147+50 LT.
STA. 170+20 TO STA. 173+50 RT.
STA. 176+00 TO STA. 182+00 RT.
STA. 192+50 TO STA. 203+50 RT.

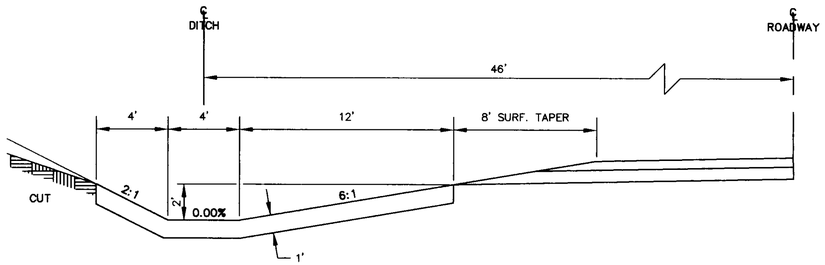



SOIL CEMENT LINED DITCH IN FILL SECTION (BID ALT. 2)

TRANSITION
STA. 147+50 TO STA. 148+50 LT.
STA. 148+50 TO STA. 171+50 LT.
TRANSITION
STA. 171+50 TO STA. 172+50 LT.

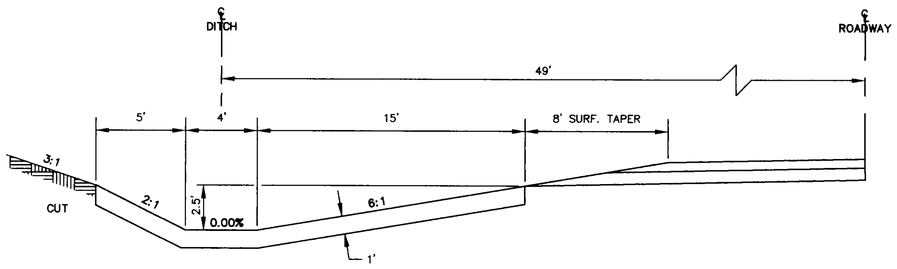
NOTES:

1. ALL SOIL CEMENT LINED DITCHES SHALL BE CONSTRUCTED IN TWO-6" LIFTS.
2. CONCRETE CUT-OFF CURBS SHALL BE INSTALLED AT THE UPSTREAM END OF ALL SOIL CEMENT LINED DITCHES, SEE DETAIL SHEET 2-3 COST OF CUT-OFF CURBS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THE SOIL CEMENT LINED DITCHES.
3. EROSION CONTROL APRONS SHALL BE INSTALLED AT THE DOWNSTREAM END OF ALL SOIL CEMENT LINED DITCHES. APRONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH N.M.S.H.T.D. STANDARD SERIAL EC-61. REQUIRED DIMENSIONS OF APRONS: 1" THICK x 10' LONG x (TOP WIDTH OF DITCH + 2') COST OF EROSION CONTROL APRONS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THE SOIL CEMENT LINED DITCHES.
4. SUBGRADE COMPACTION REQUIRED, MIN. 95% TO MIN. DEPTH OF 6"



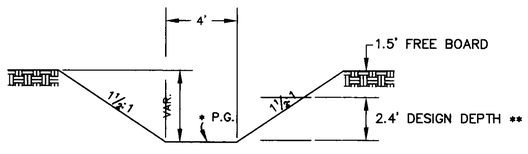

SOIL CEMENT LINED DITCH IN CUT (BID ALT. 2)

STA. 172+50 TO STA. 191+00 LT.



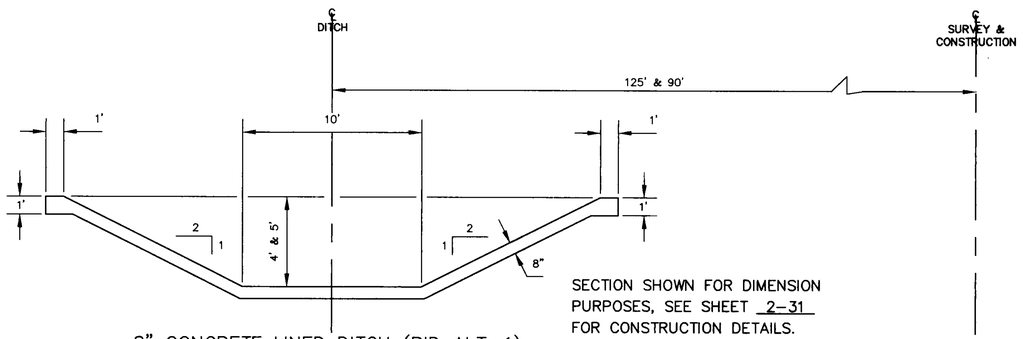

SOIL CEMENT LINED DITCH IN CUT (BID ALT. 2)

STA. 192+00 TO STA. 203+50 LT.
TRANSITION
STA. 203+50 TO STA. 205+00 LT.




TYPICAL SECTION
IRRIGATION DITCH - GUN CLUB LATERAL (BASE BID)

STA. 276+69.85, 135.35' LT. TO STA. 296+13.95, 150.99' LT.
* PROFILE GRADE = 0.0583 %
** DESIGN DEPTH FROM AS BUILT DRAWINGS, ACTUAL DEPTH IS GREATER BECAUSE OF DREDGING ACTIVITIES.




SECTION SHOWN FOR DIMENSION PURPOSES, SEE SHEET 2-31 FOR CONSTRUCTION DETAILS.

8" CONCRETE LINED DITCH (BID ALT. 1)

STA. 205+00 TO STA. 230+00, 125' LT., 4' DEPTH
STA. 230+00 TO STA. 235+00, 125' LT., TRANS. 4' TO 5' DEPTH
STA. 235+00 TO STA. 254+00, 125' LT., 5' DEPTH
STA. 254+00 TO STA. 264+00, TRANS. 125' TO 90' LT., 5' DEPTH
STA. 264+00 TO STA. 267+76.50, 90' LT., 5' DEPTH

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

MISCELLANEOUS
DITCH SECTIONS

Time: 10:29:46
Date: 4/11/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\SRB-2-4

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-4

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-5 |

# SURFACING SCHEDULE

| | | | | | 207000 | | 304000 | | | | 311010 | | | | 401000 | | | | 401210 | 401300 | 404000 | | | | * 404200 | 403270 | 408000 | 451100 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | SUBGRADE PREPARATION | | BASE COURSE OR SUBBASE | | | | BITUMINOUS TREATED OPEN GRADED BASE COURSE | | | | PLANT MIX BITUMINOUS PAVEMENT TYPE 1, GR. "A" | | | | 60-70 BIT. MAT. | HYDRATED LIME | OPEN GRADED FRICTION COURSE | | | | HYDRATED LIME | POLY. MOD. ASPHALT CEMENT-20 | BITUMINOUS MAT. FOR PRIME COAT | CONCRETE PAVEMENT 10" | | | |
| LOCATION | DESCRIPTION | STATION TO STATION | | LENGTH (FT) | WIDTH (FT) | SQ. YDS. | WIDTH (FT) | DEPTH (IN) | SQ. YDS. | TONS | WIDTH (FT) | DEPTH (IN) | SQ. YDS. | TONS | WIDTH (FT) | DEPTH (IN) | SQ. YDS. | TONS | TONS | TONS | WIDTH (FT) | DEPTH (IN) | SQ. YDS. | TONS | TONS | TONS | TONS | WIDTH (FT) | DEPTH (IN) | SQ. YDS. | TONS |
| RIO BRAVO BLVD. | TYP. SECT. A | 64+00.00 | 120+40.00 | 5640.00 | 56.00 | 35093.33② | 50.67 | 6 | 31753.20② | 10452.10② | | | | | 42.67 | 3 | 26739.87② | 4456.64② | 187.18② | 66.85② | 26.00 | 5/8 | 16293.33② | 516.24② | 5.16② | 35.10② | 67.99② | | | | |
| RIO BRAVO BLVD. | TRANS. SECT. A TO B | 120+40.00 | 127+00.00 | 660.00 | 60.00 | 4400.00② | 54.67 | 6 | 4009.13② | 1319.67② | | | | | 46.67 | 3 | 3422.47② | 570.41② | 23.96② | 8.56② | 32.00 | 5/8 | 2346.67② | 74.35② | 0.74② | 5.06② | 8.58② | | | | |
| RIO BRAVO BLVD. | TYP. SECT. B | 127+00.00 | 184+00.00 | 5700.00 | 64.00 | 40533.33② | 58.67 | 6 | 37157.67② | 12231.07② | | | | | 50.67 | 3 | 32091.00② | 5348.50② | 224.64② | 80.20② | 38.00 | 5/8 | 24066.67② | 762.53② | 7.63② | 51.85② | 72.33② | | | | |
| RIO BRAVO BLVD. | TRANS. SECT. B TO A | 184+00.00 | 187+60.00 | 360.00 | 64.00 | 2560.00② | 58.67 | 6 | 2346.80② | 772.19② | | | | | 50.67 | 3 | 2026.80② | 337.80② | 14.19② | 5.07② | 32.00 | 5/8 | 1280.00② | 40.56② | 0.41② | 2.76② | 4.57② | | | | |
| RIO BRAVO BLVD. | TYPICAL SECT. A | 187+60.00 | 239+69.53 | 5209.53 | 64.00 | 37045.55② | 58.67 | 6 | 33960.35② | 11178.61② | | | | | 50.67 | 3 | 29329.65② | 4888.27② | 205.31② | 73.32② | 26.00 | 5/8 | 15049.75② | 476.84② | 4.77② | 32.42② | 66.11② | | | | |
| RIO BRAVO BLVD. | TRANS. SECT. A TO C | 239+69.53 | 265+49.37 BK. | 2579.84 | 60.00 | 17198.93② | 54.67 | 6 | 15671.09② | 5158.40② | | | | | 46.67 | 3 | 12231.31② | 2229.65② | 93.65② | 33.45② | 26.00 | 5/8 | 7452.67② | 236.14② | 2.36② | 16.06② | 30.28② | | | | |
| RIO BRAVO BLVD. | TYP SECT. C | 265+49.27 AH. | 267+71.94 | 226.67 | 56.00 | 1385.50② | 50.67 | 6 | 1276.80② | 420.07② | | | | | 42.67 | 3 | 1074.67② | 179.11② | 8.28② | 2.69② | 26.00 | 5/8 | 654.82② | 20.75② | 0.21② | 1.41② | 2.66② | | | | |
| RIO BRAVO/CONDERSHIRE | INTERSECTION | 267+71.94 | 269+23.43 | CALC. | CALC. | 1577.82② | CALC. | 6 | 1480.96② | 487.48② | | | | | CALC. | 3 | 1384.11② | 230.68② | 9.69② | 3.46② | CALC. | 5/8 | 1190.40② | 37.72② | 0.38② | 2.56② | 3.46② | | | | |
| RIO BRAVO BLVD. | TYP SECT. C | 269+23.43 | 290+00.00 | 2076.57 | 56.00 | 12920.88② | 50.67 | 6 | 11691.09② | 3848.32② | | | | | 42.67 | 3 | 4845.25② | 1640.87② | 68.92② | 24.61② | 26.00 | 5/8 | 5998.98② | 190.07② | 1.90② | 12.92② | 22.40② | | | | |
| RIO BRAVO BLVD. | TRANS. SECT. C TO D | 290+00.00 | 294+84.66 BK. | 484.66 | 71.00 | 3823.45② | 65.67 | 6 | 3536.40② | 1164.07② | | | | | 57.67 | 3 | 3105.59② | 517.60② | 21.74② | 7.76② | 41.00 | 5/8 | 2207.90② | 69.95② | 0.70② | 4.76② | 6.96② | | | | |
| RIO BRAVO BLVD. | TRANS. SECT. C TO D | 294+93.47 AH. | 296+00.00 | 106.53 | 71.00 | 840.40② | 65.67 | 6 | 777.31② | 255.87② | | | | | 57.67 | 3 | 687.62② | 113.77② | 4.78② | 1.71② | 41.00 | 5/8 | 485.30② | 15.38② | 0.15② | 1.05② | 1.53② | | | | |
| RIO BRAVO BLVD. | TYP. SECT. D | 296+00.00 | 298+38.42 | 238.42 | 86.00 | 2278.24② | 80.67 | 6 | 2137.04② | 705.83② | | | | | 72.67 | 3 | 1925.10② | 320.85② | 13.48② | 4.81② | 56.00 | 5/8 | 1483.50② | 47.00② | 0.47② | 3.20② | 4.27② | | | | |
| RIO BRAVO/COORS | INTERSECTION | 298+38.42 | 300+67.59 | CALC. | CALC. | 4083.68② | CALC. | 6 | 3983.65② | 1311.28② | | | | | CALC. | 3 | 3730.02② | 621.67② | 26.11② | 9.33② | CALC. | 5/8 | 3477.43② | 110.18② | 1.10② | 7.49②③ | 8.31② | | | | |
| RIO BRAVO BLVD. | TYP. SECT. E | 300+67.59 | 313+93.90 | 1326.31 | 110.00 | 16210.46② | 104.67 | 6 | 15424.99② | 5077.39② | | | | | 96.67 | 3 | 14246.04② | 2374.34② | 99.72② | 35.62② | 80.00 | 5/8 | 11789.42② | 373.54② | 3.74② | 25.40② | 31.35② | | | | |
| RIO BRAVO BLVD. | CONCRETE SLAB | 313+93.90 | 314+88.64 | 94.740 | 96.00 | 1016.13② | | | | | 96.00 | 4 | 1016.13② | | | | | | | | | | | | | | | 96.00 | 4 | 1016.13② | |
| RIO BRAVO BLVD. | TYP. SEC. E | 314+88.64 | 322+10.00 | 721.36 | 110.00 | 8816.62② | 104.67 | 6 | 8389.42② | 2761.52② | | | | | 96.67 | 3 | 7748.21② | 1291.34② | 54.33② | 19.37② | 80.00 | 5/8 | 6412.09② | 203.16② | 2.03② | 13.81② | 17.05② | | | | |
| RIO BRAVO BLVD. | TRANS. E TO EXIST. | 322+10.00 | 324+70.00 | 260.00 | 112.32 | 3244.80② | 106.99 | 6 | 3090.82② | 1017.40② | | | | | 98.99 | 3 | 2859.71② | 183.31② | 20.02② | 7.15② | 82.32 | 5/8 | 2378.13② | 75.35② | 0.75② | 5.12② | 6.29② | | | | |
| DRAINAGE CHANNEL | EDGES | 205+00 | 268+26.5 | 6326.5 | | | 4 | 6 | 2811.78① | 925.54① | | | | | | | | | | | | | | | | | | | | | |
| COORS BLVD. | TRANS. EXIST TO F | 8+50.00 | 11+10.00 | 260.00 | 95.50 | 2758.89② | 90.17 | 6 | 2604.91② | 857.45② | | | | | 82.17 | 3 | 2373.80② | 395.63② | 16.62② | 5.93② | 65.50 | 5/8 | 1892.22② | 59.95② | 0.60② | 4.08② | 5.81② | | | | |
| COORS BLVD. | TYP. SECT. F | 11+10.00 | 14+99.37 | 389.37 | 112.00 | 4845.49② | 106.67 | 6 | 4614.90② | 1519.07② | | | | | 98.67 | 3 | 4268.79② | 711.47② | 29.88② | 10.67② | 82.00 | 5/8 | 3547.59② | 112.40② | 1.12② | 7.64② | 9.39② | | | | |
| COORS BLVD. | TYP. SECT. F | 17+13.12 | 21+78.89 | 465.77 | 112.00 | 5796.25② | 106.67 | 6 | 5520.41② | 1817.13② | | | | | 98.67 | 3 | 5106.39② | 851.07② | 35.94② | 12.77② | 82.00 | 5/8 | 4243.68② | 134.46② | 1.34② | 9.14② | 11.23② | | | | |
| COORS BLVD. | TRANS. F TO EXIST. | 21+78.89 | 27+70.00 | 591.11 | 97.50 | 6403.69② | 92.17 | 6 | 6053.62② | 1992.65② | | | | | 84.17 | 3 | 5528.19② | 921.37② | 38.70② | 13.82② | 67.50 | 5/8 | 4433.33② | 140.47② | 1.40② | 9.55② | 13.49② | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FRONTAGE ROAD | BASE COURSE SECTION | 5+00.00 | 7+36.31 | 236.31 | 40.00 | 1050.27② | 36.00 | 6 | 945.24② | 311.14② | | | | | | | | | | | – | – | – | – | – | – | | | | | |
| FRONTAGE ROAD | TYP. SECT. G | 7+36.31 | 19+00.68 | 1164.37 | 40.00 | 5174.98② | 37.00 | 6 | 4786.85② | 1575.67② | | | | | 33.00 | 2 | 4269.36② | 711.56② | 29.89② | 10.67② | 26.00 | 5/8 | 3363.74② | 106.58② | – | – | 9.42② | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONDERSHIRE DRIVE | TYP. SECT. I | 8+36.49 | 8+76.15 | 39.66 | 37.34 | 164.54② | 35.34 | 6 | 155.73② | 51.26② | | | | | 32.67 | 2 | 143.97② | 23.99② | 1.01② | 0.36② | 26.00 | 5/8 | 114.57② | 3.63② | – | – | 0.31② | | | | |
| CONDERSHIRE DR./MEADE | INTERSECTION | 12+45.08 | 13+83.02 | CALC. | CALC. | 1113.63② | CALC. | 6 | 1060.37② | 349.04② | | | | | CALC. | 2 | 1007.10② | 111.90② | 4.70② | 1.68② | CALC. | 5/8 | 1007.10② | 31.91② | – | – | 2.16② | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEADE AVENUE | TYP. SECT. H | 7+30.00 | 12+45.08 | 515.08 | 37.34 | 2137.01② | 35.34 | 6 | 2022.55② | 665.76② | | | | | 32.67 | 2 | 1869.74② | 311.62② | 13.09② | 4.67② | 26.00 | 5/8 | 1488.01② | 47.15② | – | – | 4.09② | | | | |
| MEADE AVENUE | TYP. SECT. H | 13+83.02 | 15+72.23 | 189.21 | 37.34 | 785.01② | 35.34 | 6 | 742.96② | 244.56② | | | | | 32.67 | 2 | 686.83② | 114.47② | 4.81② | 1.72② | 26.00 | 5/8 | 546.61② | 17.31② | – | – | 1.50② | | | | |
| FRONTAGE RD./RIO BRAVO | TURNING AREA | – | – | CALC. | CALC. | 364.49② | CALC. | 6 | 364.49② | 119.97② | | | | | – | – | – | – | – | – | – | – | – | – | – | – | – | | | | |
| TURNOUTS (FROM SHT. 2-14) | | | | | | | | 4 | 2628.29② | 576.77② | | | | | | 2 | 2426.11② | 269.56② | 11.36② | 4.03② | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BASE BID SUB-TOTALS (THIS SHEET) | | | | | | 85406.73 | | | 82012.00 | 26709.63 | | | 1016.13 | | | | 68211.93 | 11717.07 | 504.79 | 180.14 | | | 56060.00 | 1776.21 | 15.68 | 106.72 | 159.02 | | | 1016.13 | |
| BID ALTERNATE 1 SUB-TOTALS (THIS SHEET) | | | | | | – | | | 2811.78 | 925.54 | | | – | | | | – | – | – | – | | | – | – | – | – | – | | | – | |
| BID ALTERNATE 2 SUB-TOTALS (THIS SHEET) | | | | | | 138216.64 | | | 126175.04 | 41532.11 | | | – | | | | – | – | – | – | | | – | – | – | – | – | | | – | |
| BID ALTERNATE 3 SUB-TOTALS (THIS SHEET) | | | | | | – | | | – | – | | | – | | | | 106915.77 | 18010.38 | 757.21 | 270.14 | | | 67144.11 | 2127.41 | 21.28 | 144.66 | 252.52 | | | – | |
| SUB-TOTALS (THIS SHEET) | | | | | | 223623.37 | | | 210998.82 | 69167.28 | | | 1016.13 | | | | 175127.70 | 29727.45 | 1262.00 | 450.28 | | | 123204.11 | 3903.62 | 36.96 | 251.38 | 411.54 | | | 1016.13 | |

②BASE BID
①BID ALTERNATE 1
④BID ALTERNATE 2
③BID ALTERNATE 3

* FOR CONTRACTOR'S INFORMATION ONLY

## ESTIMATED SURFACING FACTORS

| ITEM | ASPHALT MATERIAL 60-70 | POLYMERIZED AC-20 | UNIT WEIGHT LBS./C.Y. | GALS./TON | HYDRATED LIME |
|---|---|---|---|---|---|
| BASE COURSE OR SUBBASE | | | 3950 | | |
| BITUMINOUS TREATED OPEN GRADED BASE COURSE | ** 2.0% BY WEIGHT OF TOTAL MIX | | 3950 | | |
| PLANT MIX BITUMINOUS PAVEMENT TYPE I, GR. "A" | 4.2% BY WEIGHT OF TOTAL MIX | | 4000 | | 1.5% BY WEIGHT OF TOTAL MIX |
| OPEN GRADED FRICTION COURSE | | 6.8% BY WEIGHT OF TOTAL MIX | 3650 | | * 1.0% BY WEIGHT OF TOTAL MIX |
| BIT. MAT. FOR PRIME COAT | 0.35-0.55 GAL./S.Y. | | | 256.86 | |

* IF REQUIRED AS DETERMINED BY BERNALILLO COUNTY LABORATORY

** FOR INFORMATION ONLY

NOTES:

1. AMOUNTS OF ASPHALT MATERIALS SHOWN ON SURFACING FACTORS SCHEDULE ARE FOR ESTIMATING PURPOSES ONLY. CORRECT AMOUNTS OF ASPHALT WILL BE DETERMINED BY BERNALILLO COUNTY LABORATORY.
2. WIDTHS SHOWN FOR TRANSITIONS DENOTE AVERAGE WIDTH THRU TRANSITION.

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

SURFACING SCHEDULE

Time: 10:12:39
Date: 4/17/2007
Drawing File: L:\PROJECTS\28164\STD\SRB-2-5

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-5

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-6 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

# SURFACING SCHEDULE

| | LOCATION | DESCRIPTION | STATION TO STATION | | LENGTH (FT) | 207000 SUBGRADE PREPARATION WIDTH (FT) | 207000 SUBGRADE PREPARATION SQ. YDS. | 304000 BASE COURSE OR SUBBASE WIDTH (FT) | 304000 DEPTH (IN) | 304000 SQ. YDS. | 304000 TONS | 311010 BITUMINOUS TREATED OPEN GRADED BASE COURSE WIDTH (FT) | 311010 DEPTH (IN) | 311010 SQ. YDS. | 311010 TONS | 401000 PLANT MIX BITUMINOUS PAVEMENT TYPE 1, GR. "A" WIDTH (FT) | 401000 DEPTH (IN) | 401000 SQ. YDS. | 401000 TONS | 401210 60-70 BIT. MAT. TONS | 401300 HYDRATED LIME TONS | 404000 OPEN GRADED FRICTION COURSE WIDTH (FT) | 404000 DEPTH (IN) | 404000 SQ. YDS. | 404000 TONS | * 404200 HYDRATED LIME TONS | 403270 POLY. MOD. ASPHALT CEMENT-20 TONS | 408000 BITUMINOUS MAT. FOR PRIME COAT TONS | 451100 CONCRETE PAVEMENT 10" WIDTH (FT) | 451100 DEPTH (IN) | 451100 SQ. YDS. | 451100 TONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BASE BID SUB-TOTALS FROM SHEET 2-5 | | | | | | 85406.73 | | | 82012.00 | 26709.63 | | | 1016.13 | | | | 68211.93 | 11717.07 | 504.79 | 180.14 | | | 56060.00 | 1776.21 | 15.68 | 106.72 | 159.02 | | | 1016.13 | |
| | BID ALTERNATE 1 SUB-TOTALS FROM SHEET 2-5 | | | | | | - | | | 2811.78 | 925.54 | | | - | | | | - | - | - | - | | | - | - | - | - | - | | | - | |
| | BID ALTERNATE 2 SUB-TOTALS FROM SHEET 2-5 | | | | | | 138216.64 | | | 126175.04 | 41532.11 | | | - | | | | - | - | - | - | | | - | - | - | - | - | | | - | |
| | BID ALTERNATE 3 SUB-TOTALS FROM SHEET 2-5 | | | | | | - | | | - | - | | | - | | | | 106915.77 | 18010.38 | 757.21 | 270.14 | | | 67144.11 | 2127.41 | 21.28 | 144.66 | 252.52 | | | - | |
| | SUB-TOTALS FROM SHEET 2-5 | | | | | | 223623.37 | | | 210998.82 | 69167.28 | | | 1016.13 | | | | 175127.70 | 29727.45 | 1262.00 | 450.28 | | | 123204.11 | 3903.62 | 36.96 | 251.38 | 411.54 | | | 1016.13 | |
| MINUS QUANTITIES (BASE BID) | RIO BRAVO BLVD. | RAISED MEDIAN & CURB & GUTTER | 296+00 | 298+62.14 | CALC. | CALC. | -176.446 | CALC. | 6" | -176.44 | -58.08 | | | | | CALC. | 3" | -176.44 | -29.41 | -1.23 | -0.44 | CALC. | % | -176.44 | -5.59 | -0.06 | -0.38 | -0.38 | | | | |
| | RIO BRAVO BLVD. | RAISED MEDIAN & CURB & GUTTER | 300+50.29 | 313+87.90 | CALC. | CALC. | -2858.11 | CALC. | 6" | -2858.11 | -940.79 | | | | | CALC. | 3" | -2858.11 | -476.35 | -20.01 | -7.14 | CALC. | % | -2858.11 | -90.56 | -0.91 | -6.16 | -6.12 | | | | |
| | RIO BRAVO BLVD. | RAISED MEDIAN & CURB & GUTTER | 314+94.64 | 320+88.59 | CALC. | CALC. | -1130.67 | CALC. | 6" | -1130.67 | -372.18 | | | | | CALC. | 3" | -1130.67 | -188.45 | -7.91 | -2.83 | CALC. | % | -1130.67 | -35.82 | -0.36 | -2.44 | -2.42 | | | | |
| | RIO BRAVO BLVD. | ISLAND 33' ± RT. | 298+73.14 | 298+89.09 | CALC. | CALC. | -46.11 | CALC. | 6" | -46.11 | -15.18 | | | | | CALC. | 3" | -46.11 | -7.69 | -0.32 | -0.12 | CALC. | % | -46.11 | -1.46 | -0.01 | -0.10 | -0.10 | | | | |
| | RIO BRAVO BLVD. | ISLAND 35' ± RT. | 300+26.09 | 300.36.30 | CALC. | CALC. | -25.11 | CALC. | 6" | -25.11 | -8.27 | | | | | CALC. | 3" | -25.11 | -4.19 | -0.18 | -0.06 | CALC. | % | -25.11 | -0.80 | -0.01 | -0.05 | -0.05 | | | | |
| | RIO BRAVO BLVD. | RAISED MEDIAN & CURB & GUTTER | 321+95.74 | 324+70.00 | CALC. | CALC. | -684.89 | CALC. | 6" | -684.89 | -225.44 | | | | | CALC. | 3" | -684.89 | -114.15 | -4.79 | -1.71 | CALC. | % | -684.89 | -21.70 | -0.22 | -1.48 | -1.48 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | - | | | | | | |
| | COORS BLVD. | RAISED MEDIAN & CURB & GUTTER | 11+09.08 | 15+21.77 | CALC. | CALC. | -622.67 | CALC. | 6" | -622.67 | -204.96 | | | | | CALC. | 3" | -622.67 | -103.78 | -4.36 | -1.56 | CALC. | % | -622.67 | -19.73 | -0.20 | -1.34 | -1.33 | | | | |
| | COORS BLVD. | RAISED MEDIAN & CURB & GUTTER | 17+02.33 | 20+81.59 | CALC. | CALC. | -86.00 | CALC. | 6" | -86.00 | -28.31 | | | | | CALC. | 3" | -86.00 | -14.33 | -0.60 | -0.21 | CALC. | % | -86.00 | -2.72 | -0.03 | -0.19 | -0.18 | | | | |
| | COORS BLVD. | RAISED MEDIAN & CURB & GUTTER | 21+39.21 | 23+23.03 | CALC. | CALC. | -44.00 | CALC. | 6" | -44.00 | -14.48 | | | | | CALC. | 3" | -44.00 | -7.33 | -0.31 | -0.11 | CALC. | % | -44.00 | -1.39 | -0.01 | -0.09 | -0.09 | | | | |
| | TOTAL MINUS QUANTITIES | | | | | | -5674.01 | | | -5674.00 | -1867.69 | | | | | | | -5674.00 | -945.68 | -39.71 | -14.18 | | | -5674.00 | -179.77 | -1.81 | -12.23 | -12.13 | | | | |
| | BASE BID TOTALS | | | | | | 79732.72 | | | 76338.00 | 24841.94 | | | 1016.13 | | | | 62537.93 | 10771.39 | 465.08 | 165.96 | | | 50386.00 | 1596.44 | 13.87 | 94.49 | 146.89 | | | 1016.13 | |
| | BID ALTERNATE 1 TOTALS | | | | | | - | | | 2811.78 | 925.54 | | | - | | | | - | - | - | - | | | - | - | - | - | - | | | - | |
| | BID ALTERNATE 2 TOTALS | | | | | | 138216.64 | | | 126175.04 | 41532.11 | | | - | | | | - | - | - | - | | | - | - | - | - | - | | | - | |
| | BID ALTERNATE 3 TOTALS | | | | | | - | | | - | - | | | - | | | | 106915.77 | 18010.38 | 757.21 | 270.14 | | | 67144.11 | 2127.41 | 21.28 | 144.66 | 252.52 | | | - | |
| | TOTALS | | | | | | 217949.36 | | | 205324.82 | 67299.59 | | | 1016.13 | | | | 169453.70 | 28781.77 | 1222.29 | 436.10 | | | 117530.11 | 3723.85 | 35.15 | 239.15 | 399.41 | | | 1016.13 | |
| | USE | | | | | | 218000 | | | | 67300 | | | 1020 | | | | | 28790 | 1225 | 437 | | | | 3730 | 36 | 240 | 400 | | | 1020 | |

MINUS QUANTITIES (BASE BID)

* FOR CONTRACTOR'S INFORMATION ONLY

NOTES:

1. AMOUNTS OF ASPHALT MATERIALS SHOWN ON SURFACING FACTORS SCHEDULE ARE FOR ESTIMATING PURPOSES ONLY. CORRECT AMOUNTS OF ASPHALT WILL BE DETERMINED BY BERNALILLO COUNTY LABORATORY.
2. WIDTHS SHOWN FOR TRANSITIONS DENOTE AVERAGE WIDTH THRU TRANSITION.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

SURFACING SCHEDULE

Time: 11:4:34
Date: 4/14/1997 JTN
Drawing File: L:\PROJECTS\28164\STD\SRB-2-6

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-6

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-7 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

# ESTIMATED STRUCTURE QUANTITIES

| | | | 203000 | | | 570437 | 570438 | 570462 | 570487 | 570496 | 540060 | 541200 | 511000 | 511999 | 602000 | 619524 | 619536 | 619548 | 619560 | 619566 | * | * | * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | UNCLASSIFIED EXCAVATION | | | 24" REINF. CONC. PIPE CLASS II | 24" REINF. CONC. PIPE CLASS III | 36" REINF. CONC. PIPE CLASS III | 60" REINF. CONC. PIPE CLASS II | 66" REINF. CONC. PIPE CLASS IV | REINFORCING BARS - GRADE 60 | STRUCTURAL STEL FOR MISCELLANEOUS STRUCTURES, ASTM A36 | STRUCTURAL CONC. CLASS "A" | CONCRETE CHANNEL LINING | RIPRAP CLASS A | 24"x24" RED TOP WATERMAN C-10 CANAL GATE | 36"x36" RED TOP WATERMAN C-10 CANAL GATE | 48"x48" RED TOP WATERMAN C-10 CANAL GATE | 60"x60" RED TOP WATERMAN C-10 CANAL GATE | 66"x66" RED TOP WATERMAN C-10 CANAL GATE | UNCLASSIFIED EXCAVATION | WIRE FABRIC | 5' STEEL STAKES |
| STATION | STRUCTURE | SKEW | SIZE | SIZE | CU. YD. | LIN. FT. | LIN. FT. | LIN. FT. | LIN. FT. | LIN. FT. | LB. | LB. | CU. YD. | SQ. YD. | CU. YD. | EACH | EACH | EACH | EACH | EACH | CU. YD. | LB. | EACH |
| | RIO BRAVO | | | | | | | | | | | | | | | | | | | | | | |
| 88+00 (BID ALT. 2) | BUILD 2-8'x4'x57' CONC. BOX CULVERT DES. 1 WITH | NORM. | 40'x25'x0.5' | 88.75'x40.5'x1' | 10 | | | | | | 11871 | | 80.10 | | 403 | | | | | | 390 | 8993 | 502 |
| | WINGWALLS RT. & LT. BUILD EROSION CONTROL PAD | | | 110'x200'x1' | 639 | | | | | | | | | | | | | | | | | | |
| | RT. 1' THICK | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 114+00 (BID ALT. 2) | BUILD 5-10'x5'x57' CONC. BOX CULVERT DES. 1 WITH | NORM. | | | | | | | | | 40621 | | 241.83 | | 590 | | | | | | 541 | 12204 | 681 |
| | WINGWALLS RT. & LT. BUILD EROSION CONTROL PAD | | | | | | | | | | | | | | | | | | | | | | |
| | RT. 1' THICK | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 314+44.31 (BASE BID) | EXTEND EXST. 1-60" CPC LT. WITH 1-60" x 28' | 6° L.F. | | | | | | | 28 | | 305 | | 9.51 | | | | | | | | | | |
| | REINF. CONC. PIPE CL. II AND EXTEND RT. WITH | | | | | | | | | | | | | | | | | | | | | | |
| | 1-60" x 12 REINF. CONC. PIPE, CL. II BUILD CONC. | | | | | | | | | | | | | | | | | | | | | | |
| | HEADWALLS LT. & RT. (IRRIG. STR.) | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 315+11.13 (BASE BID) | REMOVE EXIST. 24" CONC. END SECT. LT AND | | | | | 84' | | | | | 88 | | 2.28 | | | | | | | | | | |
| | EXTEND EXIST. 1-24" CPC LT. WITH 1-24" x 52' | | | | | | | | | | | | | | | | | | | | | | |
| | REINF. CONC. PIPE, CL. II AND EXTEND RT. WITH | | | | | | | | | | | | | | | | | | | | | | |
| | 1-24" x 32' REINF. CONC. PIPE BUILD CONC. | | | | | | | | | | | | | | | | | | | | | | |
| | HEADWALLS RT. & LT. (IRRG. STR.) | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 274+79.87-92.67' RT. | BUILD 1-24"x126' REINF. CONC. PIPE CLASS III | - | | | | | | | | | | | | | | | | | | | | | |
| TO 275+93.58-123.50' RT. | WITH HEADWALL AT OUTLET. | | | | | | | | | | | | | | | | | | | | | | |
| (BASE BID) | | - | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 275+04.73-86.32' RT. | BUILD 1-24"x96' REINF. CONC. PIPE CLASS III WITH | - | | | | | 126 | | | | 44 | | 1.14 | | | | | | | | | | |
| TO 275+92.80, 123.44' RT. | HEADWALL AT OUTLET | - | | | | | | | | | | | | | | | | | | | | | |
| (BASE BID) | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 275+49.81 (BASE BID) | BUILD 1-66"x292' REINF. CONC. PIPE CLASS IV WITH | 38°45'23" | | | | | 14 | 16 | | 292 | 2020 | 680 | 30 | | | 1 | 1 | | | 2 | | | |
| | HEADWALL LT. BUILD SPECIAL DESIGN JCT./GATE | LF | | | | | | | | | | | | | | | | | | | | | |
| | BOX RT. WITH 1-24"x14' REINF. CONC. PIPE CLASS II | | | | | | | | | | | | | | | | | | | | | | |
| | AND 1-36"x16' REINF. CONC. PIPE CLASS III | | | | | | | | | | | | | | | | | | | | | | |
| | (OVERFLOW TO CHANNEL WALL) | | | | | | | | | | | | | | | | | | | | | | |
| | QUANTITIES FROM SHEET 2-34 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 296+13.91-151.01' LT. | BUILD 1-60"x280' REINF. CONC. PIPE CLASS III WITH | - | | | | | | | 280 | | 153 | | 4.76 | | | | | | | | | | |
| TO 298+84.27-162.50' LT. | HEADWALL AT OUTLET. BUILD SPECIAL DESIGN | | | | | | | | | | | | | | | | | | | | | | |
| (BASE BID) | JCT./GATE BOX AT INLET STA. (298+84.27, | | | | | | | | | | | | | | | | | | | | | | |
| | 162.50' LT.) SEE SHT. 2-35 FOR JCT./GATE DETAILS | | | | | | | | | | | | | | | | | | | | | | |
| | QUANTITIES FROM SHEET 2-35 | | | | | | | | | | 910 | 680 | 14 | | | 1 | | 1 | 1 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | CONDERSHIRE AVE. | | | | | | | | | | | | | | | | | | | | | | |
| 8+30.49 | BUILD 2-6'x6' CBC 57' DESIGN #1 NORM. (BASE BID) | | | | | | | | | | 7889 | | 54.61 | | | | | | | | | | |
| | 335' DESIGN #4 NORM. (BID ALT. 1) STD. SERIALS | | | | | | | | | | 55476 | | 388.6 | | | | | | | | | | |
| | CB-32 SHT. 1 & SHT. 4 SHT. 2-32 & 2-33 | | | | | | | | | | | | | | | | | | | | | | |
| | SPECIAL DESIGN OUTLET DETAILS SHT. 2-31 (BID ALT. 1) | | | | | | | | | | | | | | | | | | | | | | |
| | CONC. SPECIAL DESIGN TRANSITION DETAILS (BID ALT. 1) | | | | | | | | | | | | | | | | | | | | | | |
| | QUANTITIES FROM SHEET 2-31 (BID ALT. 1) | | | | | | | | | | 1400 | | 21 | 125 | | | | | | | | | |
| | QUANTITIES FROM SHEET 2-32 (BID ALT. 1) | | | | | | | | | | 8340 | | 61 | 900 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | BASE BID TOTALS (THIS SHEET) | | | | - | 84 | 140 | 16 | 308 | 292 | 11409 | 1360 | 116.3 | - | - | 2 | 1 | 1 | 1 | 2 | - | - | - |
| | BID ALTERNATE 1 TOTALS (THIS SHEET) | | | | - | - | - | - | - | - | 65216 | - | 470.60 | 1025 | - | - | - | - | - | - | - | - | - |
| | BID ALTERNATE 2 TOTALS (THIS SHEET) | | | | 649 | - | - | - | - | - | 52492 | - | 321.93 | - | 993 | - | - | - | - | - | 931 | 21197 | 1183 |
| | ROADWAY TOTALS (THIS SHEET) | | | | 649 | 84 | 140 | 16 | 308 | 292 | 129117 | 1360 | 908.83 | 1025 | 993 | 2 | 1 | 1 | 1 | 2 | 931 | 21197 | 1183 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

* FOR INFORMATION ONLY, INCLUDED IN PAYMENT FOR RIPRAP CLASS A

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

ESTIMATED STRUCTURE QUANTITIES

Time: 10:33:29
Date: 4/11/1997 LJS
Drawing File: L:\PROJECTS\2816A\STD\SRB-2-7

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-7

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-8 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

# ESTIMATED STRUCTURE QUANTITIES

| | | | 203000 | | | 570426 | 570429 | 570437 | 570438 | 570462 | 570487 | 570496 | 540060 | 540200 | 541200 | 511000 | 511999 | 602000 | 623002 | 623003 | 623311 | 619524 | 619536 | 619548 | 619560 | 619566 | * | * | * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | UNCLASSIFIED EXCAVATION | | | 18" REINF. CONC. PIPE CLASS III | 18" REINF. CONC. END SECTION | 24" REINF. CONC. PIPE CLASS II | 24" REINF. CONC. PIPE CLASS III | 36" REINF. CONC. PIPE CLASS III | 60" REINF. CONC. PIPE CLASS II | 66" REINF. CONC. PIPE CLASS IV | REINFORCING BARS - GRADE 60 | WELDED WIRE FABRIC | STRUCTURAL STEEL FOR MISCELLANEOUS STRUCTURES (ADD'D WEIGHT) | STRUCTURAL CONC. CLASS "A" | CONCRETE CHANNEL LINING | RIPRAP CLASS A | MEDIAN DROP INLET TYPE I-2 TO 3' | MEDIAN DROP INLET TYPE I-3 TO 6' | CURB DROP INLET TYPE I-B 0'-4' | 24"x24" RED TOP WATERMAN C-10 CANAL GATE | 30"x36" RED TOP WATERMAN C-10 CANAL GATE | 48"x48" RED TOP WATERMAN C-10 CANAL GATE | 60"x60" RED TOP WATERMAN C-10 CANAL GATE | 60"x66" RED TOP WATERMAN C-10 CANAL GATE | UNCLASSIFIED EXCAVATION | WIRE FABRIC | 5' STEEL STAKES |
| STATION | STRUCTURE | SKEW | INLETS SIZE | OUTLETS SIZE | TOTAL CU. YD. | LIN. FT. | EACH | LIN. FT. | LIN. FT. | LIN. FT. | LIN. FT. | LIN. FT. | LB. | LB. | LB. | CU. YD. | SQ. YD. | CU. YD. | EACH | EACH | EACH | CU. YD. | CU. YD. | CU. YD. | CU. YD. | CU. YD. | CU. YD. | CU. YD. | LB. | EACH |
| | BASE BID TOTALS (FROM SHEET 2-7) | | | | – | | | 84 | 140 | 16 | 308 | 292 | 11409 | | 1360 | 116.3 | – | – | | | | 2 | 1 | 1 | 1 | 2 | – | – | – |
| | BID ALTERNATE 1 TOTALS (FROM SHEET 2-7) | | | | – | | | – | – | – | – | – | 65216 | | – | 470.60 | 1025 | – | | | | – | – | – | – | – | – | – | – |
| | BID ALTERNATE 2 TOTALS (FROM SHEET 2-7) | | | | 649 | | | – | – | – | – | – | 52492 | | – | 321.93 | – | 993 | | | | – | – | – | – | – | – | – | – |
| | TOTALS FROM SHEET 2-7 | | | | 649 | | | 84 | 140 | 16 | 308 | 292 | 129117 | | 1360 | 908.83 | 1025 | 993 | | | | 2 | 1 | 1 | 1 | 2 | 931 | 21197 | 1183 |
| 267+57.33 (BID ALT. 1) | BUILD 1-24"x64' REINF. CONC. PIPE CLASS III | NORM | | | | | | | 64 | | | | | | | | | | 1 | | | | | | | | | | |
| | BUILD MEDIAN DROP INLET 163.47' LT. OF CONST. ℄ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | TYPE I, H=3.0'. DRAIN INTO CONC. LINED CHAN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 267+73.32 (BID ALT. 1) | BUILD 1-24"x153' REINF. CONC. PIPE CLASS III | NORM | | | | | | | 153 | | | | | | | | | | | 1 | | | | | | | | | |
| | BUILD MEDIAN DROP INLET 70.36' LT. OF CONST. ℄ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | TYPE I, H=4.0'. DRAIN INTO CONC. LINED CHAN. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 288+49.57 (BASE BID) | BUILD 1-18"x34' REINF. CONC. PIPE | 3°00' LF | | | | 34 | | | | | | | | 10 | | 0.52 | | | | | | | | | | | | | |
| | CLASS III (FOR FUTURE CURB DROP INLET | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | INSTALLATION) BUILD CONC. PLUGS RT. & LT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 290+60.71 (BASE BID) | BUILD 1-18"x120' REINF. CONC. PIPE | 64°28' LF | | | | 120 | | | | | | | | 10 | | 0.52 | | | | | | | | | | | | | |
| | CLASS III (FOR FUTURE DROP INLET | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | INSTALLATION) BUILD CONC. PLUGS RT. & LT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 298+23.68 (BASE BID) | BUILD 1-18"x 252' REINF. CONC. PIPE | 39°16' LF | | | | 252 | 1 | | | | | | | 5 | | 0.26 | | | | 1 | | | | | | | | | |
| | CLASS III. BUILD CURB DROP INLET | 54°23' LF | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15.76' LT. TYPE I, H=4.0' BUILD END SECTION AND | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | EROSION CONTROL APRON RT. & CONC. PLUG 132' LT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (FUTURE CURB D.I. 132' LT.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 299+84.50-251.92' RT. | BUILD 1234.50' CONCRETE LINED CHANNEL, 3' OFFSET | – | | | | | | | | | | | | | | 150 | | | | | | | | | | | | | |
| TO 312+64.74-100.94' RT. | PARALLEL TO ROW-LINE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (BASE BID) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 300+64.48 (BASE BID) | BUILD 1-18"x190' REINF. CONC. PIPE CLASS III. | 9°29' LF | | | | 190 | | | | | | | | | | | | | | 1 | | | | | | | | | |
| | BUILD CURB DROP INLET 11.00' RT. OF CONST. ℄ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | TYPE I, H+4.0' AND EROSION CONTROL APRON | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 304+48.57 (BASE BID) | EXTEND EXISTING 24" RCP W/ 1-24"x237.35' RCP, | 20° LF | | | | | | 238 | | | | | | | | | | | | | | | | | | | | | |
| | CLASS II | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 306+97.63 (BASE BID) | BUILD 1-18"x 170' REINF. CONC. PIPE | NORMAL | | | | 170 | | | | | | | | 10 | | 0.52 | | | | | | | | | | | | | |
| | CLASS III (FOR FUTURE CURB | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DROP INLET INSTALLATION) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BUILD CONC. PLUGS RT. & LT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 304+48.57 (BASE BID) | EXTEND EXISTING 24" RCP W/ 1-24"x32.75' RCP, | 8° LF | | | | | | 33 | | | | | | | | | | | | | | | | | | | | | |
| | CLASS II | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 313+45.23 (BASE BID) | BUILD 1-18"x 96' REINF. CONC. PIPE | 20°59'42"LF | | | | 96 | 1 | | | | | | | | | | | | | 1 | | | | | | | | | |
| | CLASS III. BUILD CURB DROP INLET 14.46' LT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | TYPE I, H= 4.0' BUILD END SECTION RT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | BASE BID TOTALS | | | | – | 862 | 2 | 355 | 140 | 16 | 308 | 292 | 11409 | 35 | 1360 | 288.12 | – | – | – | – | 3 | 2 | 1 | 1 | 1 | 2 | – | – | – |
| | BID ALTERNATE 1 TOTALS | | | | – | – | – | – | 217 | – | – | – | 65216 | – | – | 470.60 | 1025 | – | 1 | 1 | – | – | – | – | – | – | – | – | – | – |
| | BID ALTERNATE 2 TOTALS | | | | 649 | – | – | – | – | – | – | – | 52492 | – | – | 321.93 | – | 993 | – | – | – | – | – | – | – | – | – | 931 | 21197 | 1183 |
| | ROADWAY TOTALS | | | | 649 | 862 | 2 | 355 | 357 | 16 | 308 | 292 | 129117 | 35 | 1360 | 1060.65 | 1025 | 993 | 1 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 931 | 21197 | 1183 |
| | USE | | | | 649 | 862 | 2 | 355 | 357 | 16 | 308 | 292 | 129200 | 35 | 1360 | 1061 | 1025 | 1000 | 1 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 931 | 22000 | 1183 |

* FOR INFORMATION ONLY, INCLUDED IN PAYMENT FOR RIPRAP CLASS A

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

ESTIMATED STRUCTURE QUANTITIES

17 April 04

Time: 10:35:14
Date: 4/16/2004
Drawing File: L:\PROJECTS\28164\STD\SHB-2-8

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-8

| F.H.W.A. REGION NO. 6 | SHEET |
|---|---|
| NEW MEXICO PROJECT NO. | NO. |
| SDM-4008(208) | 2-9 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

## ITEM 601000 – REMOVAL OF STRUCTURES AND OBSTRUCTIONS

| STA. | TO STA. | LOC. | DESCRIPTION |
|---|---|---|---|
| BID ALTERNATE 1 | | | |
| 203+62 | | RT. & LT. | * 250' B.W. FEN.(CROSS FENCE) |
| BASE BID | | | |
| 255+13.10 | LATERAL | RT. ℄ CONSTR. | * 100' B.W. FENCE |
| 255+13.10 | LATERAL | LT. ℄ CONSTR. | * 154.83' B.W. FENCE |
| 255+13.10 | 257+21.98 | 142.19' AVE LT. ℄ CONSTR. | * 208.88' B.W. FENCE |
| 255+44 | 255+53 | 17' RT. ℄ CONSTR. | 36.00' FOUNDATION |
| 255+61.40 | 255+73.73 | ℄ CONSTR. | 148.66' FOUNDATION |
| 257+21.98 | LATERAL | LT. ℄ CONSTR. | * 129.55' B.W. FENCE |
| 257+21.98 | LATERAL | RT. ℄ CONSTR. | * 100' B.W. FENCE |
| 257+82 | LATERAL | LT. ℄ CONSTR. | * 152.11' B.W. FENCE |
| 257+82 | LATERAL | RT. ℄ CONSTR. | * 100' B.W. FENCE |
| 257+82 | 261+62.35 | 152.09 AVE. LT ℄ CONSTR. | * 380.35' B.W. FENCE |
| 259+90.62 | LATERAL | LT. ℄ CONSTR. | * 152.11' B.W. FENCE |
| 259+90.62 | LATERAL | RT. ℄ CONSTR. | * 100' B.W. FENCE |
| 259+90.62 | 261+45 | 72' LT. ℄ CONSTR. | * 154.38' B.W. FENCE |
| 261+45 | LATERAL | LT. ℄ CONSTR. | * 152.07' B.W. FENCE |
| 261+45 | LATERAL | RT. ℄ CONSTR. | * 100' B.W. FENCE |
| 261+62.35 | LATERAL | LT. ℄ CONSTR. | * 152.07' B.W. FENCE |
| 261+62.35 | LATERAL | RT. ℄ CONSTR. | * 100' B.W. FENCE |
| 261+98 | LATERAL | LT. ℄ CONSTR. | * 152.07' B.W. FENCE |
| 261+98 | LATERAL | RT. ℄ CONSTR. | * 100' B.W. FENCE |
| 264+66.19 | 265+05.05 | 146.25 AVE. RT ℄ CONSTR. | * 77.72' B.W. FENCE |
| 264+66.19 | LATERAL | 145.01' RT. ℄ CONSTR. | * 10' B.W. FENCE |
| 265+05.05 | LATERAL | 147.48' RT. ℄ CONSTR. | * 8' B.W. FENCE |
| 265+73.91 | LATERAL | 83.89' RT. ℄ CONSTR. | * 66.11' B.W. FENCE |
| 265+73.91 | 266+23.20 | 84.23' AVE. RT. ℄ CONSTR. | * 49.29' B.W. FENCE |
| 265+91.91 | LATERAL | 84.11' RT. ℄ CONSTR. | * 65.89' B.W. FENCE |
| 266+23.20 | LATERAL | 84.56' RT. ℄ CONSTR. | * 65.44' B.W. FENCE |
| 266+83.15 | LATERAL | 105.61' RT. ℄ CONSTR. | * 44.39' B.W. FENCE |
| 266+83.15 | 268+24.18 | 104.29' AVE. RT. ℄ CONSTR. | * 141.03' B.W. FENCE |
| 267+53.17 | 267+63.53 | 116.47' AVE. RT. ℄ CONSTR. | 41.44' FOUNDATION |
| 267+61.93 | 267+76.83 | 139.99' RT. ℄ CONSTR. | 45' FOUNDATION |
| 268+24.18 | LATERAL | RT. ℄ CONSTR. | * 150' B.W. FENCE |
| 268+24.18 | LATERAL | LT. ℄ CONSTR. | * 150' B.W. FENCE |
| 271+14 | 271+80 | LT. ℄ CONSTR. | * 162.69' B.W. FENCE |
| 271+80 | 272+91 | RT. ℄ CONSTR. | * 192.82' B.W. FENCE |
| 272+83 | 273+97 | LT. ℄ CONSTR. | * 183.09' B.W. FENCE |
| 273+02 | 274+05 | RT. ℄ CONSTR. | * 183.09' B.W. FENCE |
| 273+97 | 275+06 | RT. ℄ CONSTR. | * 190.85' B.W. FENCE |
| 273+42.28 | 275+06 | RT. ℄ CONSTR. | * 190.85' B.W. FENCE |
| 273+70.16 | 273+81.87 | 198.71' AVE. LT. ℄ CONSTR. | 46.84' FOUNDATION |
| 274+28 | | 177' RT. | 4' CHANNEL WALL SECTION |
| 274+76 | | 107' RT. | 4' CHANNEL WALL SECTION |
| 274+78 | 274+96 | 86' RT. ℄ TO 61' RT. ℄ | PORTION 1–60"x32' PIPE CONC. HEADWALL |
| 274+81.33 | 275+10.28 | RT. ℄ CONST. | 50 LF CONC. ACCESS & RET WALL |
| 274+90 | 275+48 | RT. ℄ CONSTR. | * 60' B.W. FENCE |
| 275+08 | 275+49 | 58' RT. TO 96' RT. ℄ CONST. | 1–24"x39'+CORR. METAL PIPE |
| 275+35 | 274+92 | 200' RT. TO 58' RT. ℄ CONST. | 1–48"x142' RCP |
| 275+55 | 277+00 | RT. ℄ CONSTR. | 175' CONCRETE LINED DITCH |
| 276+49 | 276+70 | 109' RT. TO 155' RT. | 1–60"x32' PIPE W/HEADWALL |
| 277+90.03 | 277+99.37 | 71.64 AVE. RT. ℄ CONSTR. | 37.36' FOUNDATION |
| 278+67.23 | 279+46.51 | 20' AVE. LT. ℄ CONSTR. | 240' FOUNDATION |
| 280+87.85 | 281+10.13 | 22.72' AVE. RT. ℄ CONSTR. | 74.10' FOUNDATION |
| 298+68.02 | | 122.79' LT. | 1–24"x50.53 CMP |
| 300+75 | 305+00 | LT. ℄ CONSTR. | 902' CURB & GUTTER |
| 304+11 | 305+00 | 45' RT. ℄ CONSTR. | * 89' B.W. FENCE |
| 305+00 | 314+10 | RT. ℄ CONSTR. | * 925' B.W. FENCE |
| 305+00 | 308+35 | LT. ℄ CONSTR. | * 685' B.W. FENCE |
| 309+22 | | ℄ CONSTR. | 960' CURB & GUTTER |
| 270+00 ± | 271+50 ± | 85' RT. | ** 270' B.W. FENCE |
| 314+22 | 314+72 | ℄ CONSTR. RT. & LT. | 611 SQ. YDS. |
| 314+85 | 319+00 | ℄ CONSTR. | 830' CURB & GUTTER |
| 319+00 | 320+95 | ℄ CONSTR. | 390' CURB & GUTTER |
| 321+86 | 324+70 | ℄ CONSTR. | 568' CURB & GUTTER |

* TO BE SALVAGED AND DELIVERED TO THE BERNALILLO COUNTY MAINTENANCE YARD SOUTH BROADWAY, ALBUQUERQUE. COST OF HAULING TO BE INCLUDED IN THE COST OF ITEM 601000–REMOVAL OF STRUCTURES AND OBSTRUCTIONS.

** TEMPORARY AT ARCHEOLOGICAL SITE

## ITEM 601000 – REMOVAL OF STRUCTURES AND OBSTRUCTIONS (CONTINUED)

| STATION | TO STATION | LOCATION | DESCRIPTION |
|---|---|---|---|
| BASE BID (CONTINUED) | | | |
| RIO BRAVO | | | |
| 257+81.12 | | 151.76' LT. | *STOP SIGN |
| 268+22.34 | | 196.19' LT. | *STOP SIGN |
| 268+71.86 | | 181.52' LT. | *STOP SIGN |
| 268+82.91 | | 218.35' LT. | *TRAFFIC SIGN |
| 298+05.41 | | 213.35' RT. | *TRAFFIC SIGN |
| 298+62.62 | | 191.75' RT. | *TRAFFIC SIGN |
| 298+62.92 | | 221.37' RT. | *END SIGN |
| 299+76.09 | | 157.24' LT. | *STOP SIGN |
| 300+18.50 | | 0.48' LT. | *N.M. 45 SIGN |
| 300+21.33 | | 0.85' RT. | *N.M. 500 SIGN |
| 301+45.02 | | 71.98' LT. | *TRAFFIC SIGN |
| 301+96.67 | | 176.71' LT. | *N.M. 45 SIGN |
| 304+98.86 | | 63.91' LT. | *TRAFFIC SIGN |
| 305+49.78 | | 12.77' RT. | *TRAFFIC SIGN |
| 307+39.85 | | 75.60' LT. | *TRAFFIC SIGN JCT. S.R. 45 |
| 308+29.60 | | 13.51' LT. | *DELINEATOR |
| 309+19.12 | | 59.91' LT. | *TRAFFIC SIGN – SHERIFF'S |
| 309+28.66 | | 0.04' RT. | *DELINEATOR |
| 310+69.14 | | 58.29' RT. | *TRAFFIC SIGN |
| 308+78.11 | | 42.49' RT. | *SIGN POST |
| 314+02.16 | | 60.39' LT. | *TRAFFIC SIGN |
| 314+54.36 | | 64.35' RT. | *DELINEATOR |
| 314+12.39 | | 63.26' RT. | *TRAFFIC SIGN |
| 314+47.51 | | 61.99' LT. | *DELINEATOR |
| 314+86.18 | | 66.09' RT. | *TRAFFIC SIGN |
| 314+91.11 | | 13.22' RT. | *DELINEATOR |
| 317+78.36 | | 64.20' RT. | *DON'T LITTER SIGN |
| 320+90.15 | | 4.83' RT. | *DELINEATOR |
| 321+07.25 | | 48.37' RT. | *TRAFFIC SIGN |
| 321+58.19 | | 58.20' RT. | *TRAFFIC SIGN |
| 321+62.67 | | 64.35' LT. | *TRAFFIC SIGN |
| COORS BLVD. | | | |
| 9+71.24 | | 40.75' RT. | *TRAFFIC SIGN |
| 10+84.77 | | 36.93' RT. | *TRAFFIC SIGN |
| 12+13.59 | | 36.17' RT. | *TRAFFIC SIGN |
| 13+51.03 | | 2.69' LT. | *TRAFFIC SIGN |
| 13+86.11 | | 36.31' RT. | *TRAFFIC SIGN |
| 14+00.46 | | 3.48' RT. | *TRAFFIC SIGN |
| 19+36.65 | | 59.47' RT. | *TRAFFIC SIGN |
| 20+72.04 | | 54.24' RT. | *TRAFFIC SIGN |
| 20+82.86 | | 8.00' RT. | *TRAFFIC SIGN |
| 21+44.14 | | 82.82' LT. | *TRAFFIC SIGN |
| 21+56.93 | | 81.24' LT. | *TRAFFIC SIGN |
| 22+71.93 | | 53.25' LT. | *TRAFFIC SIGN |
| 23+20.79 | | 50.40' RT. | *TRAFFIC SIGN |
| 24+25.20 | | 42.28' LT. | *TRAFFIC SIGN |
| 24+28.83 | | 37.40' RT. | *TRAFFIC SIGN |
| 25+23.18 | | 38.48' RT. | *TRAFFIC SIGN |
| 25+68.95 | | 83.67' LT. | *TRAFFIC SIGN |
| 25+79.86 | | 59.88' LT. | *TRAFFIC SIGN |
| 26+02.78 | | 60.02' LT. | *TRAFFIC SIGN |
| 26+05.53 | | 44.56' LT. | *TRAFFIC SIGN |
| 17+30.00 | | 43.00' LT. | *TRAFFIC SIGNAL |
| 17+32.00 | | 4.00' LT. | *TRAFFIC SIGNAL |
| 17+53.00 | | 53.00' LT. | *TRAFFIC SIGNAL |
| 18+01.00 | | 54.00' RT. | *TRAFFIC SIGNAL |
| 18+04.00 | | 70.00' LT. | *TRAFFIC SIGNAL |
| 18+33.40 | | 70.00' LT. | *TRAFFIC SIGNAL |
| 18+59.00 | | 7.21' RT. | *TRAFFIC SIGNAL |
| 18+66.00 | | 48.50' RT. | *TRAFFIC SIGNAL |

### SUMMARY OF REMOVALS

BASE BID
- TRAFFIC SIGNS–51 EACH.
- B.W. FENCE – 5653 LIN. FT.
- CONCRETE FOUNDATION – 670 LIN. FT.
- CONCRETE CURB AND GUTTER – 2930 LIN. FT.
- CONCRETE LINED DITCH – 175 LIN. FT.
- CONCRETE PAVEMENT – 611 SQ. YDS.
- 24" CORR. METAL PIPE 90'
- 48" RCP – 142'
- 60" PIPE – 85'

BID ALTERNATE 1
- B.W. FENCE – 250 LIN. FT.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

# MISCELLANEOUS QUANTITIES

Time: 9:40:24
Date: 4/7/1997 JTN
Drawing File: L:\PROJECTS\28164\STD\SRB-2-9

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-9

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-10 |

LINEAR GRADING (BASE BID)
ITEM 208010

| STA. TO STA. | | LOC. | LIN. FT. | REMARKS |
|---|---|---|---|---|
| 276+69.85 135.35' LT. | TO 296+13.95 150.99' LT. | LT. | 1944.10 | RESHAPE/REPAIR EXISTING |
| | | | | |
| | | TOTAL | 1944.10 | |
| | | USE | 1950 | |

SEE IRRIGATION DITCH TYPICAL SECTION SHT. 2-28

BOLLARD (BASE BID) ITEM 667500

| COORS STA. TO STA. | LOCATION | EACH | REMARKS |
|---|---|---|---|
| 18+06-18+29 | 71' LT. | 6 | 4.6' SPACING. |
| | | | |
| TOTAL | | 6 | |
| USE | | 6 | |

PIPE GATE - 9' (BASE BID) ITEM 607509

| COORS STATION | LOCATION | EACH | REMARKS |
|---|---|---|---|
| 17+83 | 71' LT. | 2 | SEE DETAIL SHT. 2-27 |
| | | | |
| TOTAL | | 2 | |
| USE | | 2 | |

NOTE: COST OF 9' GATE SHALL INCLUDE THE COST OF 6' PIPE FENCE.

PMBP SAMPLING AND TESTING BY THE CONTRACTOR
ITEM 401400

PROJECT TOTAL: LS

TRAFFIC CONTROL MANAGEMENT (BASE BID, ALT. 3)
ITEM 618010

| | CAL. DAY |
|---|---|
| BASE BID | 150 |
| BID ALT. 3 | 30 |
| PROJECT TOTAL: | 180 |

CUT-OFF CURB * (BASE BID)

| LOC. | STATION | LIN. FT. | 511000 STRUC. CONC. CLASS "A" CU. YDS. | REMARKS |
|---|---|---|---|---|
| MEADE | 7+30 | 32 | 0.89 | |
| FRONT. RD. | 7+36.31 | 32 | 0.89 | |
| | TOTAL | 64 | 1.78 | |
| | USE | | 2 | |

* SEE SHT 2-3 FOR DETAIL.

REFLECTORIZED PLASTIC PAVEMENT STRIPE 8" (BASE BID)
ITEM 704208

| STA. TO STA. | | LOC. | COLOR | LIN. FT. | REMARKS |
|---|---|---|---|---|---|
| 295+00.00 | 298+74.58 | RT. | WHITE | 476.66 | RIO BRAVO CHEVRON CHANNELING |
| 298+60.27 | 299+01.57 | RT. | WHITE | 126.10 | RIO BRAVO OFFSET ISLAND |
| 300+14.29 | 300+53.46 | LT. | WHITE | 114.42 | RIO BRAVO OFFSET ISLAND |
| 300+41.38 | 305+40.87 | LT. | WHITE | 1000.55 | RIO BRAVO CHEVRON CHANNELING |
| 12+33.82 | 15+21.30 | RT. | WHITE | 574.60 | COORS CHEVRON CHANNELING |
| 17+04.05 | 19+89.16 | LT. | WHITE | 569.15 | COORS CHEVRON CHANNELING |
| 19+93.33 | 20+78.60 | RT. | WHITE | 182.48 | COORS CHEVRON CHANNELING |
| 22+17.83 | 23+22.60 | RT. | WHITE | 210.17 | COORS CHEVRON CHANNELING |
| | | TOTAL | | 3254.13 | |
| | | USE | | 3260 | |

REFLECTORIZED PLASTIC PAVEMENT STRIPE 12" (BASE BID)
ITEM 704212

| STA. TO STA. | | LOC. | COLOR | LIN. FT. | REMARKS |
|---|---|---|---|---|---|
| 292+45.79 | 296+00.00 | LT./RT. | YELLOW | 240.00 | RIO BRAVO PAINTED MEDIAN |
| 295+00.00 | 298+74.58 | RT. | WHITE | 602.66 | RIO BRAVO CHEVRON CHANNELING |
| 298+54.86 | 298+75.91 | RT. | WHITE | 46.29 | RIO BRAVO CROSSWALK (2) |
| 298+60.27 | 299+01.57 | RT. | WHITE | 27.89 | RIO BRAVO OFFSET ISLAND |
| 298+83.09 | | LT./RT. | WHITE | 117.76 | RIO BRAVO CROSSWALK (2) |
| 300+14.29 | 300+53.46 | LT. | WHITE | 21.17 | RIO BRAVO OFFSET ISLAND |
| 300+26.12 | | LT./RT. | WHITE | 141.79 | RIO BRAVO CROSSWALK (2) |
| 300+36.70 | 300+56.65 | LT. | WHITE | 48.89 | RIO BRAVO CROSSWALK (2) |
| 300+41.38 | 305+40.87 | LT. | WHITE | 390.70 | RIO BRAVO CHEVRON CHANNELING |
| 8+50.00 | 11+35.56 | LT./RT. | YELLOW | 454.00 | COORS PAINTED MEDIAN |
| 12+33.82 | 15+21.30 | RT. | WHITE | 265.68 | COORS CHEVRON CHANNELING |
| 17+04.05 | 19+89.16 | LT. | WHITE | 284.60 | COORS CHEVRON CHANNELING |
| 19+93.33 | 20+78.60 | RT. | WHITE | 74.73 | COORS CHEVRON CHANNELING |
| 20+71.50 | 21+24.92 | LT. | WHITE | 101.44 | COORS/SHOPPING CENTER CROSSWALK (2) |
| 20+84.27 | | LT./RT. | WHITE | 194.37 | COORS CROSSWALK (2) |
| 22+17.83 | 23+22.60 | RT. | WHITE | 32.36 | COORS CHEVRON CHANNELING |
| | | TOTAL | | 3044.33 | |
| | | USE | | 3050 | |

REMOVAL OF SURFACING (BASE BID)
ITEM 601110

| STA. TO STA. | LOC. | WIDTH | SQ. YD. | REMARKS |
|---|---|---|---|---|
| RIO BRAVO BLVD. | | | | |
| 300+00 TO 302+00 | ℄ LT. | VAR. | 1306.67 | |
| 302+00 TO 314+22 | ℄ RT. & LT. | 68' | 9232.89 | |
| 314+72 TO 324+70 | ℄ RT. & LT. | 68' | 7540.44 | |
| | | | | |
| COORS BLVD. | | | | |
| 8+50 TO 17+50 | ℄ RT. & LT. | 70' AVG. | 7000.00 | |
| 19+75 TO 27+70 | ℄ RT. & LT. | 75' AVG. | 6625.00 | |
| | | TOTAL | 31705.00 | |

OBLITERATING OLD ROAD (BASE BID)
ITEM 213000

| STA. TO STA. | LOC. | WIDTH | LIN. FT. | MILE | REMARKS |
|---|---|---|---|---|---|
| 257+62 | 62' LT. | 20' | 50.00 | | TRAIL RD. |
| 300+85 TO 303+85 | LT. | 75' AVG. | 300.00 | | RIO BRAVO |
| | | | | | |
| | | | | | |
| | | TOTAL | 350.00 | 0.0663 | |
| | | USE | | 0.066 | |

REFLECTORIZED PLASTIC PAVEMENT STRIPE 24" (BASE BID)
ITEM 704224

| STA. TO STA. | | LOC. | COLOR | LIN. FT. | REMARKS |
|---|---|---|---|---|---|
| 298+62.14 | | LT./RT. | WHITE | 12.07 | RIO BRAVO STOP BAR |
| 298+79.00 | | RT. | WHITE | 16.01 | RIO BRAVO STOP BAR |
| 300+36.04 | | LT. | WHITE | 16.02 | RIO BRAVO STOP BAR |
| 300+52.41 | | LT./RT. | WHITE | 12.06 | RIO BRAVO STOP BAR |
| 15+11.42 | | LT./RT. | WHITE | 48.00 | COORS STOP BAR |
| 17+13.62 | | LT./RT. | WHITE | 48.00 | COORS STOP BAR |
| 20+74.19 | 20+97.48 | LT. | WHITE | 23.32 | COORS/SHOPPING CENTER STOP BAR |
| 20+87.27 | | LT./RT. | WHITE | 47.95 | COORS STOP BAR |
| 8+16 | | LT. | WHITE | 15.01 | CONDESHIRE STOP BAR |
| 9+57 | | RT. | WHITE | 15.73 | CONDESHIRE STOP BAR |
| 12+72 | | RT. | WHITE | 16.17 | MEADE STOP BAR |
| 13+52 | | LT. | WHITE | 12.00 | MEADE STOP BAR |
| 19+42 | | RT. | WHITE | 18.71 | FRONTAGE ROAD STOP BAR |
| | | TOTAL | | 301.05 | |
| | | USE | | 310 | |

REFLECTORIZED PLASTIC PAVEMENT STRIPE 4" (BASE BID)
ITEM 704204

| STA. TO STA. | | LOC. | COLOR | LIN. FT. | REMARKS |
|---|---|---|---|---|---|
| 292+45.79 | 296+00.00 | LT./RT. | YELLOW | 710.38 | RIO BRAVO PAINTED MEDIAN |
| 8+50.00 | 11+35.56 | LT./RT. | YELLOW | 532.00 | COORS PAINTED MEDIAN |
| | | TOTAL | | 1242.38 | |
| | | USE | | 1250 | |

* CUT-OFF CURB AT SOIL CEMENT LINE DITCH (ALT. 2) ITEM 511000

| STATION | LOCATION | LENGTH | STRUC. CONC. CLASS "A" CU. YDS. | REMARKS |
|---|---|---|---|---|
| 131+00 | LT. | 9' | 0.25 | |
| 131+00 | RT. | 9' | 0.25 | |
| 170+20 | RT. | 9' | 0.25 | |
| 176+00 | RT. | 9' | 0.25 | |
| 192+50 | RT. | 9' | 0.25 | |
| TOTAL | | | 1.25 | |
| USE | | | 1.25 | |

* FOR INFORMATION ONLY, SEE SHT. 2-4
SEE SHT. 2-3 FOR DETAILS.

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

# MISCELLANEOUS QUANTITIES

Time: 16:18:10
Date: 9/10/1997 ELP
Drawing File: L:\PROJECTS\28164\STD\SMB-2-10.DWG

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-10

| F.H.W.A. REGION NO. 6 / NEW MEXICO PROJECT NO. | SHEET NO. |
|---|---|
| SDM-4008(208) | 2-11 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

EARTHEN DYKE * (BID ALT. 2)

| STATION | LOC. | TOP | HT.. | LENGTH | SLOPES | EMB CU. YDS. | REMARKS |
|---|---|---|---|---|---|---|---|
| 88+40 | LT. | 10' | 6' | 200' | 2:1 | 977.78 | |
| | | | TOTAL | | | 977.78 | |
| | | | USE | | | 980 | |

* QUANTITY HAS BEEN INCLUDED IN THE EARTHWORK SUMMARY, SEE SHEET 2-13

EROSION CONTROL APRON

ITEM 602000

| | | DIMENSIONS | | | RIPRAP CLASS A | EXCAVATION | WIRE FABRIC | 5' STEEL STAKES | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| STATION | LOC. | LENGTH | WIDTH | THICK | CU. YD. | CU. YD. | LB. | EACH | |
| BID ALT. 2 88+00 | RT. | 10' | 11' | 1' | 4.07 | 4 | 106 | 9 | |
| 114+00 | RT. | 10' | 11' | 1' | 4.07 | 4 | 106 | 9 | |
| 145+50 | RT. | 10' | 11' | 1' | 4.07 | 4 | 106 | 9 | |
| 173+50 | RT. | 10' | 11' | 1' | 4.07 | 4 | 106 | 9 | |
| 182+00 | RT. | 10' | 11' | 1' | 4.07 | 4 | 106 | 9 | |
| BASE BID 230+50 | RT. | 10' | 11' | 1' | 4.07 | 4 | 106 | 9 | |
| 298+23.68 | RT. | 10' | 10' | 1' | 3.7 | 3.6 | 96 | 9 | |
| 300+64.48 | RT. | 10' | 10' | 1' | 3.7 | 3.6 | 96 | 9 | |
| BASE BID TOTAL | | | | | 11.47 | | | | |
| BID ALT. 2 TOTAL | | | | | 20.35 | | | | |
| BASE BID USE | | | | | 12 | | | | |
| BID ALT. 2 USE | | | | | 21 | | | | |

TCP - CME - SCHEDULE **

| TYPE | STA. TO STA. | | LENGTH | WIDTH | LEFT/RIGHT | AREA (SQ.FT.) |
|---|---|---|---|---|---|---|
| BID ALT. 2 | | | | | | |
| CME | 88+15.87 | 88+65.87 | 50' | 180' | LEFT | 9000 |
| CME | 87+00.13 | 89+00.13 | 200' | 167' | RIGHT | 33,400 |
| CME | 112+75.12 | 115+25.12 | 250' | 7' | RIGHT | 1750 |
| BASE BID | | | | | | |
| TCP | 296+57.13 | 297+40.90 | 54.66' AVG. | 12' AVG. | LEFT | 656 |
| TCP | 263+16.24 | 267+78.11 | 475.90' AVG. | 20' | RIGHT | 9318 |
| TCP | 268+72.33 | 272+13.93 | 400.00' AVG. | 20' | RIGHT | 8,000 |

**FOR CONTRACTOR'S INFORMATION ONLY

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

## MISCELLANEOUS QUANTITIES

Time: 9:49:39
Date: 4/18/1997 RKA
Drawing File: L:\PROJECTS\20164\STD\SRB-2-11

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-11

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-12 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

BARBED WIRE FENCE – 4'
ITEM 607004

| STA. | TO | STA. | LOCATION | LIN. FT. | REMARKS |
|---|---|---|---|---|---|
| BID ALTERNATE 2 | | | | | |
| 61+00 | | 87+20 | LT ℄ CONSTR. | 2620.00 | |
| 87+11 | | 87+85 | LT ℄ CONSTR. | 104 | WING TO CBC |
| 88+15 | | 88+88 | LT ℄ CONSTR. | 104 | WING TO CBC |
| 61+00 | | 86+90 | RT ℄ CONSTR. | 2590.00 | |
| 86+65 | | 87+85 | RT ℄ CONSTR. | 159 | WING TO CBC |
| 88+14 | | 89+36 | RT ℄ CONSTR. | 159 | WING TO CBC |
| 88+80 | | 112+90 | LT ℄ CONSTR. | 2410.00 | |
| 112+92 | | 113+66 | LT ℄ CONSTR. | 104 | WING TO CBC |
| 114+31 | | 115+04 | LT ℄ CONSTR. | 104 | WING TO CBC |
| 89+10 | | 112+60 | RT ℄ CONSTR. | 2350.00 | |
| 112+62 | | 113+69 | RT ℄ CONSTR. | 146 | WING TO CBC |
| 114+34 | | 115+38 | RT ℄ CONSTR. | 146 | WING TO CBC |
| 115+05 | | 122+00 | LT ℄ CONSTR. | 695.00 | |
| 122+00 | | LATERAL | LT ℄ CONSTR. | 50.00 | JOG |
| 115+35 | | 122+00 | RT ℄ CONSTR. | 665.00 | |
| 122+00 | | LATERAL | RT ℄ CONSTR. | 100.00 | JOG |
| 122+00 | | 129+00 | LT ℄ CONSTR. | 700.00 | |
| 129+00 | | LATERAL | LT ℄ CONSTR. | 100.00 | JOG |
| 129+00 | | 137+00 | LT ℄ CONSTR. | 800.00 | |
| 137+00 | | LATERAL | LT ℄ CONSTR. | 100.00 | JOG |
| 137+00 | | 145+00 | LT ℄ CONSTR. | 800.00 | |
| 122+00 | | 129+00 | RT ℄ CONSTR. | 700.00 | |
| 129+00 | | LATERAL | RT ℄ CONSTR. | 100.00 | JOG |
| 129+00 | | 137+00 | RT ℄ CONSTR. | 800.00 | |
| 137+00 | | LATERAL | RT ℄ CONSTR. | 100.00 | JOG |
| 137+00 | | 145+00 | RT ℄ CONSTR. | 800.00 | |
| 145+00 | | LATERAL | LT ℄ CONSTR. | 50.00 | JOG |
| 145+00 | | LATERAL | RT ℄ CONSTR. | 100.00 | JOG |
| 145+00 | | 165+50 | LT ℄ CONSTR. | 2050.00 | |
| 145+00 | | 165+50 | RT ℄ CONSTR. | 2050.00 | |
| 165+50 | | 177+50 | LT ℄ CONSTR. | 1216.55 | FLARE |
| 177+50 | | 179+50 | LT ℄ CONSTR. | 200.00 | |
| 165+50 | | 177+50 | RT ℄ CONSTR. | 1216.55 | FLARE |
| 177+50 | | 179+50 | RT ℄ CONSTR. | 200.00 | |
| 179+50 | | 191+50 | LT ℄ CONSTR. | 1216.55 | FLARE |
| 179+50 | | 191+50 | RT ℄ CONSTR. | 1216.55 | FLARE |
| 191+50 | | 205+50 | LT ℄ CONSTR. | 1400.00 | |
| 191+50 | | 205+50 | RT ℄ CONSTR. | 1400.00 | |
| 205+50 | | 217+55 | LT ℄ CONSTR. | 1221.49 | FLARE |
| 217+55 | | 219+65 | LT ℄ CONSTR. | 210.00 | |
| 219+65 | | 230+15 | LT ℄ CONSTR. | 1064.48 | FLARE |
| 205+50 | | 217+55 | RT ℄ CONSTR. | 1221.49 | FLARE |
| 217+55 | | 219+65 | RT ℄ CONSTR. | 210.00 | |
| 219+65 | | 226+65 | RT ℄ CONSTR. | 709.38 | FLARE |
| 226+65 | | 238+60 | RT ℄ CONSTR. | 1200.52 | FLARE |
| 238+60 | | 240+90 | RT ℄ CONSTR. | 230.00 | |
| 240+90 | | 252+90 | RT ℄ CONSTR. | 1216.55 | FLARE |
| 230+15 | | 241+85 | LT ℄ CONSTR. | 1183.02 | FLARE |
| 241+85 | | 249+45 | LT ℄ CONSTR. | 260.00 | |
| 249+45 | | 254+75 | LT ℄ CONSTR. | 530.00 | |
| 252+90 | | 254+75 | RT ℄ CONSTR. | 185.00 | |
| BASE BID | | | | | |
| 254+75 | | 256+50 | LT ℄ CONSTR. | 175.00 | |
| 256+50 | | 274+54.77 | LT ℄ CONSTR. | 1814.77 | |
| 254+75 | | 263+35 | RT ℄ CONSTR. | 860.00 | |
| 263+35 | | 264+05 | RT ℄ CONSTR. | 86.02 | FLARE |
| 264+05 | | 274+54.99 | RT ℄ CONSTR. | 1049.99 | |
| 274+54.99 | | 299+47 | LT ℄ CONSTR. | 2590.00 | CURVE & IRREGULAR |

(CONTINUED AT RIGHT)

BARBED WIRE FENCE – 4' (CONTINUED)
ITEM 607004

| STA. | TO | STA. | LOCATION | LIN. FT. | REMARKS |
|---|---|---|---|---|---|
| BASE BID (CONTINUED) | | | | | |
| 270+00 ± | | 271+50 ± | 85' RT ℄ CONSTR. | 270.00 | TEMPORARY FENCE AT ARCHEOLOGICAL SITE |
| 274+54.99 | | 284+60.79 | RT ℄ CONSTR. | 1084.80 | CURVE |
| 284+60.79 | | 288+15 | RT ℄ CONSTR. | 354.21 | |
| 288+15 | | LATERAL | RT ℄ CONSTR. | 100.00 | JOG |
| 288+15 | | 290+95.31 | RT ℄ CONSTR. | 280.31 | |
| 290+95.31 | | 297+52 | RT ℄ CONSTR. | 625.00 | CURVE |
| 299+20 | | 310+00 | RT ℄ CONSTR. | 1055.00 | |
| 310+00 | | 313+70 | RT ℄ CONSTR. | 355.00 | |
| 310.15 | | 308+50 | LT ℄ CONSTR. | 780.00 | |
| 308+50 | | LATERAL | LT ℄ CONSTR. | 30.00 | JOG |
| 308+50 | | 314+00 | LT ℄ CONSTR. | 558.00 | |
| 315+15 | | 324+70.00 | LT ℄ CONSTR. | 955.00 | |
| 314+92 | | 324+70.00 | RT ℄ CONSTR. | 1068.00 | |
| | | | BASE BID SUB-TOTAL | 14091.1 | |
| | | | MINUS CROSSROADS RT. | -132.00 | |
| | | | MINUS CROSSROADS LT. | -132.00 | |
| | | | MINUS TURNOUTS | -136.00 | |
| | | | BASE BID TOTAL | 13691.1 | |
| | | | BID ALTERNATE 2 TOTAL | 39264.1 | |
| | | | TOTAL | 52955.2 | |
| | | | USE | 52960 | |

CONCRETE WALL BARRIER-32" (BASE BID)
ITEM 606532

| STATION TO STATION | LOC. | LIN.FT. | REMARKS |
|---|---|---|---|
| CONDERSHIRE AVE.<br>7+77.99 TO 8+82.99 | LT. | 105.00 | WITH 2-40' TAPER SECTIONS (2-6'x6' CBC) |
| RIO BRAVO BLVD.<br>272+26.49 TO 274+16.49 | LT. | 190.00 | INTERIM INSTALLATION AT AMOLE BRIDGE |
| TOTAL | | 295.00 | |
| USE | | 295 | |

(SEE SHT. 2-16 FOR LAYOUT)

WOVEN WIRE BARRIER FENCE (BASE BID)
ITEM 607015

| STATION TO STATION | | LOC. | LIN.FT. | REMARKS |
|---|---|---|---|---|
| 254+75 | | 40' RT. | 60.00 | TIE TO R/W FENCE |
| 254+75 | 267+75 | 40' RT. | 1300.00 | |
| TOTAL | | | 1360 | |
| USE | | | 1370 | |

STANDARD GATES (BASE BID)

| STATION | LOC. | ITEM 607312 12' | ITEM 607320 20' | REMARKS |
|---|---|---|---|---|
| RIO BRAVO BLVD. | | | | |
| 313+69.7 | RT. | | 2 | 40' T.O. |
| 314+13.7 | LT. | 2 | | 24' T.O. |
| 314+69.2 | RT. | 2 | | 24' T.O. |
| 314+89.5 | LT. | 2 | | 24' T.O. |
| TOTAL | | 6 | 2 | |
| USE | | 6 | 2 | |

LINEAR GRADING (BASE BID)
ITEM NO. 208000

| STATION TO STATION | | LOC. | LIN.FT. | MILE | REMARKS |
|---|---|---|---|---|---|
| 268+49.26 | | 190' RT. | 122.72 | | 1-25 R CUL-DE-SAC |
| TOTAL | | | 122.72 | 0.023 | SQ. AREA EQUAL TO |
| USE | | | | 0.100 | 1-16' WIDEx122.72 ROADWAY |

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

# MISCELLANEOUS QUANTITIES

Time: 13:23:24
Date: 4/7/1997 JTN
Drawing File: L:\PROJECTS\20164\STD\SRB-2-12

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-12

## REFLECTORIZED PAINTED MARKING
ITEM 704000

| STATION TO STATION | | SOLID WHITE | DASHED WHITE | DOTTED WHITE | DASHED YELLOW | SOLID YELLOW | STRIPE WIDTH | REMARKS |
|---|---|---|---|---|---|---|---|---|
| BID ALT. 3 | | | | | | | | |
| 64+00.00 | 120+40.00 | 11280.00 | | | 1410.00 | 1240.00 | 4" | RIO BRAVO TYP. SECT. A |
| 120+40.00 | 127+00.00 | 1320.00 | | | | 1320.00 | 4" | RIO BRAVO TRANS. SECT. A TO B |
| 127+00.00 | 184+00.00 | 11400.00 | 1294.00 | | 1150.00 | 680.00 | 4" | RIO BRAVO TYP. SECT. B |
| 184+00.00 | 187+60.00 | 720.00 | | 119.00 | 90.00 | 360.00 | 4" | RIO BRAVO TRANS. SECT. B TO A |
| 187+60.00 | 239+69.53 | 10419.06 | | | 1302.38 | | 4" | RIO BRAVO TYP. SECT. A |
| 239+69.53 | 265+49.37 BK | 5159.68 | | | 644.96 | | 4" | RIO BRAVO TRANS. SECT. A TO C |
| 265+49.27 AH | 267+70.83 | 443.12 | | | 55.39 | | 4" | RIO BRAVO TYP. SECT. C |
| BASE BID | | | | | | | | |
| 267+70.83 | 290+00.00 | 4560.82 | | | 557.29 | | 4" | RIO BRAVO TYP. SECT. C |
| 290+00.00 | 292+45.79 | 491.58 | | | 61.45 | | 4" | RIO BRAVO TRANS. SECT. C TO D (BEG. INTERSECTION) |
| 292+45.79 | 305+40.87 | 2787.00 | | | | | 4" | RIO BRAVO/COORS INTERSECTION (SHLDRS./CHANNELING) |
| 292+45.79 | 305+40.87 | | 561.00 | | | | 4" | RIO BRAVO/COORS INTERSECTION (CHANNELING) |
| 292+45.79 | 305+40.87 | | | | | 2356.00 | 4" | RIO BRAVO/COORS INTERSECTION (MEDIAN) |
| 305+40.87 | 324+70.00 | 4259.00 | | | | | 4" | RIO BRAVO (SHLDRS./CHANNELING) |
| 305+40.87 | 324+70.00 | | 965.00 | | | | 4" | RIO BRAVO (CHANNELING) |
| 305+40.87 | 324+70.00 | | | | | 3122.00 | 4" | RIO BRAVO (MEDIAN) |
| 8+50.00 | 27+70.00 | 3492.00 | | | | | 4" | COORS (SHLDRS./CHANNELING) |
| 8+50.00 | 27+70.00 | | 796.00 | | | | 4" | COORS (CHANNELING) |
| 8+50.00 | 27+70.00 | | | | 179.00 | | 4" | COORS (MEDIAN) |
| 8+50.00 | 27+70.00 | | | | | 3481.00 | 4" | COORS (MEDIAN) |
| 7+30.00 | 15+72.23 | 1542.00 | | | 211.00 | | 4" | MEADE (SHLDRS./CENTERLINE) |
| 7+40.49 | 9+74.57 | 362.00 | | | 61.00 | | 4" | CONDERSHIRE (SHLDRS./CENTERLINE) |
| 7+36.31 | 19+56.13 | 2811.00 | | | 302.00 | 476.00 | 4" | FRONTAGE RD. (SHLDRS./CENTERLINE) |
| BASE BID SUB-TOTALS | | 20305.40 | 2322.00 | 0 | 1371.74 | 9435.00 | | |
| TOTAL WHITE | | | 22627.40 | | | | | |
| TOTAL YELLOW | | | | | | 10806.74 | | |
| FIRST APPLICATION | | | | 33434.14 | | | | |
| SECOND APPLICATION | | | | 33434.14 | | | | |
| BASE BID TOTAL | | | | 66868.28 | | | | |
| BASE BID USE | | | | 66900 | | | | |
| BID ALT. 3 SUB-TOTALS | | 40741.86 | 1294.00 | 119.00 | 4652.73 | 3600.00 | | |
| TOTAL WHITE | | | 42154.86 | | | | | |
| TOTAL YELLOW | | | | | | 8252.73 | | |
| FIRST APPLICATION | | | | 50407.59 | | | | |
| SECOND APPLICATION | | | | 50407.59 | | | | |
| BID ALT. 3 TOTAL | | | | 100815.18 | | | | |
| BID ALT. 3 USE | | | | 100900 | | | | |

## EARTHWORK SUMMARY

| ROAD | STATION TO STATION | | EXCAV. CU. YD. | EMBANK CU. YD. |
|---|---|---|---|---|
| RIO BRAVO (BID ALT. 2) | 64+00 | 267+70.83 | 56000 | 90945 |
| RIO BRAVO (BASE BID) | 64+00 | 324+70.00 | 414000 | 0 |
| *FRONTAGE ROAD (BASE BID) | 5+00 | 19+08 | | |
| CONDERSHIRE (BASE BID) | 5+50 | 9+35 | 2192 | |
| MEADE AVE. (BASE BID) | 7+30 | 15+63 | 894 | 2142 |
| COORS BLVD. (BASE BID) | 8+50 | 27+70 | 1848 | 9324 |
| DIKE (BID ALT. 2) | 88+40 | | | 980 |
| TURNOUTS FROM SHT 2-14 (BASE BID) | | | 26 | 1648 |

### BASE BID SUMMARY

| | | | |
|---|---|---|---|
| EXCAVATION | 418960 | EMBANKMENT | 0 |
| | | SHRINK | 0 |
| | | | 0 |
| 203000 UNCLASSIFIED EXCAVATION | 418960 | 203100 BORROW | 0 |
| TOTAL | 418960 | TOTAL | |
| USE | 420000 | USE | |

### BID ALT. 2 SUMMARY

| | | | |
|---|---|---|---|
| EXCAVATION | 56000 | EMBANKMENT | 91925 |
| | | SHRINK | 27575 |
| | | | 119500 |
| 203000 UNCLASSIFIED EXCAVATION | 56000 | 203100 BORROW | 56600 |
| INLET & OUTLET DITCHES | 649 | | |
| TOTAL | 56649 | TOTAL | 176100 |
| USE | 57000 | USE | 177000 |

NOTE:

1. EXCAVATION QUANTITIES FOR LINED DITCHES ARE INCLUDED IN ROADWAY.

* INCLUDED IN RIO BRAVO

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-13 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

## ROAD DELINEATOR TYPE HAZARD
ITEM 703110

| STATION | LOC. | TYPE | EACH | REMARKS |
|---|---|---|---|---|
| BID ALT. 3 | | | | |
| 88+00 | RT. & LT. | 2-V | 2 | 2-8'x4' CBC-NORM. |
| 114+00 | RT. & LT. | 2-V | 2 | 5-10'x5' CBC-NORM. |
| BASE BID | | | | |
| 272+99.43 | RT. & LT. | 2-V | 2 | BRIDGE - TWO SPAN, PRESTRESSED CONC. |
| 314+44.31 | RT. & LT. | 2-V | 2 | 1-60" CONC. PIPE CULV. 6' L.F. |
| 315+11.13 | RT. & LT. | 2-V | 2 | 1-24" CONC. PIPE CULV. 5' L.F. |

| | |
|---|---|
| BASE BID TOTAL | 6 |
| BID ALTERNATE 3 TOTAL | 4 |
| PROJECT TOTAL | 10 |
| USE | 10 |

## ROAD DELINEATOR TYPE GUIDE
ITEM 703100

| STATION TO STATION | | LOC. | TYPE | EACH | SPACING | REASON | REMARKS |
|---|---|---|---|---|---|---|---|
| BID ALT. 3 | | | | | | | |
| 230+69.53 | 239+69.53 | LT. | C-1 | 3 | 300',300',300' | 0° 30'00" CURVE | ADV. OF CURVE |
| 239+69.53 | 240+71.26 | LT. | - | 0 | - | 0° 30'00" CURVE | NOT REQUIRED THRU CURVE |
| 240+71.26 | 249+71.26 | LT. | C-1 | 3 | 300',300',300' | 0° 30'00" CURVE | BEYOND CURVE |
| 255+47.64 | 264+47.64 | RT. | C-1 | 3 | 300',300',300' | 0° 30'00" CURVE | ADV. OF CURVE |
| 264+47.64 | 265+49.37 BK. | RT. | C-1 | - | - | 0° 30'00" CURVE | NOT REQUIRED THRU CURVE |
| 265+49.27 AH. | 274+49.27 | RT. | - | - | - | 0° 30'00" CURVE | OVERLAPS NEXT CURVE |
| BASE BID | | | | | | | |
| 265+94.77 | 274+94.77 | RT. | C-1 | 3 | 300',300',260' | 3° 00'00" CURVE | ADV. OF CURVE |
| 274+94.77 | 284+79.09 | RT. | C-1 | 8 | 128' | 3° 00'00" CURVE | CURVE |
| 284+79.09 | 293+39.09 | RT. | C-1 | 3 | 260',300',300' | 3° 00'00" CURVE | BEYOND CURVE |
| 281+95.32 | 290+95.32 | LT. | C-1 | 3 | 300',300',300' | 1° 30'00" CURVE | ADV. OF CURVE |
| 290+95.32 | 311+34.10 | LT. | C-2 | 13 | 156' | 1° 30'00" CURVE | CURVE |
| 311+34.10 | 320+34.10 | LT. | C-2 | 3 | 300',300',300' | 1° 30'00" CURVE | BEYOND CURVE |
| BASE BID TOTAL | | | | 33 | | | |
| BID ALTERNATE 3 TOTAL | | | | 9 | | | |
| PROJECT TOTAL | | | | 42 | | | |
| USE | | | | 42 | | | |

## REFLECTORIZED PLASTIC TURN, THRU, AND LANE DROP ARROWS

| | 704300 REFL. PLASTIC COMB. ARROW (THRU & RIGHT) EACH | 704320 REFLECTORIZED PLASTIC RIGHT ARROW EACH | 704330 REFLECTORIZED PLASTIC LEFT ARROW EACH | 704340 REFLECTORIZED PLASTIC THRU ARROW EACH | 704400 REFLECTORIZED PLASTIC WORD (ONLY) EACH | 704540 REFLECTORIZED PLASTIC RIGHT LANE DROP ARROW EACH | REMARKS |
|---|---|---|---|---|---|---|---|
| RIO BRAVO/COORS INTERSECTION (BASE BID) | 3 | 1 | 10 | 4 | 9 | 0 | |
| BASE BID TOTAL | 3 | 1 | 10 | 4 | 9 | 0 | |
| STA. 122+40 TO STA. 126+40 (BID ALT. 3) | 0 | 0 | 0 | 0 | 0 | 3 | |
| BID ALT. 3 TOTAL | 0 | 0 | 0 | 0 | 0 | 3 | |

**BASE BID AND BID ALT. 2, 3,**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

MISCELLANEOUS QUANTITIES

Time: 16:24.2
Date: 9/10/1997 EJF
Drawing File: L:\PROJECTS\28164\STD\SRB-2-13.DWG

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-13

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-14 |

## CONCRETE BARRIER CURB AND GUTTER TYPE B-6"X24" (BASE BID)
ITEM NO. 609424

| STATION TO | STATION | LOCATION | LIN. FT. | DESCRIPTION | REMARKS |
|---|---|---|---|---|---|
| Rio Bravo | | | | | |
| 296+00.00 | | Nose | 4.71 | R=1.5, Δ = 180° 00" | |
| 296+00.00 | 297+00.00 | Med. Lt. | 100.35 | R=3833.22', Δ = 01° 30' 00" | |
| 297+00.00 | 298+45.68 | Med. Lt. | 146.19 | R=3833.22', Δ = 02° 11'06" | |
| 298+45.68 | 298+62.26 | Med. Lt. | 16.80 | R=68.50', Δ = 14° 03' 17" | |
| 298+62.26 | | Nose | 1.45 | R=0.50', Δ = 166° 11' 33" | |
| 296+00.00 | 297+00.00 | Med. Rt. | 100.27 | R=3830.22, Δ = 01° 30'00" | |
| 297+00.00 | 298+62.26 | Med. Rt. | 162.61 | R=3830.22, Δ=02° 25'56" | |
| 300+50.29 | | Nose | 1.45 | R=0.50', Δ=165° 56' 49" | |
| 300+50.41 | 302+73.63 | Med. Lt. | 222.68 | R=3810.72, Δ=03° 20' 53" | |
| 300+73.63 | 307+08.62 | Med. Lt. | 435.61 | R=7169.00', Δ= 03° 28' 53" | |
| 307+08.62 | 311+34.09 | Med. Lt. | 426.98 | R=3833.22', Δ=06° 22' 55" | |
| 311+34.09 | 311+64.22 | Med. Lt. | 30.13 | Tang. | |
| 311+64.22 | 313+65.10 | Med. Lt. | 201.41 | R=4597.16', Δ=02° 30' 40" | |
| 313+65.10 | 313+90.11 | Med. Lt. | 26.21 | R=50.50', Δ=29° 44' 05" | |
| 313+90.11 | 312+87.90 | Nose | 11.82 | R=4.50', Δ=150° 33'01" | |
| 300+50.29 | 300+66.69 | Med. Rt. | 16.51 | R=68.50', Δ=13° 48' 32" | |
| 300+66.69 | 308+52.84 | Med. Rt. | 783.37 | R=3806.22, Δ=11° 47'32" | |
| 308+52.84 | 312+87.85 | Med. Rt. | 434.24 | R=9138.35, Δ=2° 43'21" | |
| 312+87.85 | 313+87.90 | Med. Rt. | 100.03 | R=4582.16, Δ=01°15'03" | |
| 314+94.64 | | Nose | 11.80 | R=4.50', Δ=150°15'59" | |
| 314+94.64 | 315+94.59 | Med. Lt. | 99.97 | R=4585.16', Δ=01°14'57" | |
| 315+94.59 | 320+29.58 | Med. Lt. | 435.77 | R=7039.79', Δ=03°32'48" | |
| 320+29.58 | 320+63.79 | Med. Lt. | 34.31 | R=4597.16', Δ=00°25'39" | |
| 320+63.79 | 320+88.80 | Med. Lt. | 26.21 | R=50.50', Δ=29°44'05" | |
| 320+86.59 | | Nose | | R=4.50', Δ=150°33'01" | |
| 314+92.41 | 315+17.28 | Med. Rt. | 25.96 | R=50.50', Δ=29°27'03" | |
| 315+17.28 | 315+51.52 | Med. Rt. | 34.14 | R=4570.16, Δ=00°25'41" | |
| 315+51.52 | 319+86.53 | Med. Rt. | 434.37 | R=7049.03', Δ=03°31'50" | |
| 319+86.53 | 320+86.59 | Med. Rt. | 100.03 | R=4582.16', Δ=01°15'03" | |
| 321+95.74 | | Nose | 11.80 | R=4.50', Δ=150°15'59" | |
| 321+95.74 | 322+95.67 | Med. Lt. | 99.97 | R=4585.16, Δ=01°14'57" | |
| 322+95.67 | 324+20.00 | Med. Lt. | 125.10 | R=43702.23, Δ=00°09'50" | |
| 324+20.00 | 324+70.00 | Med. Lt. | 50.00 | | Tie to Existing |
| 321+93.50 | 322+18.37 | Med. Rt. | 25.96 | R=50.50, Δ=29°27'03" | |
| 322+18.37 | 323+70.00 | Med. Rt. | 151.19 | R=4570.16, Δ+01°53'44" | |
| 323+70.00 | 324+70.00 | Med. Rt. | 100.00 | | Tie to Existing |
| Coors Blvd. | | | | | |
| 11+09.08 | | Nose | 20.11 | R=8.50', Δ=135°35'05" | |
| 11+09.08 | 14+90.88 | Med. Lt. | 381.80 | | |
| 14+90.80 | 15+21.77 | Med. Lt. | 31.08 | R=159.50', Δ=11°09'55" | |
| 15+21.77 | | Nose | 2.95 | R=1.00', Δ=168°50'05" | |
| 11+03.13 | 11+35.56 | Med. Rt. | 39.15 | R=50.50', Δ=44°24'55" | |
| 11+35.56 | 12+31.86 | Med. Rt. | 94.43 | R=348.50', Δ=15°02'48" | |
| 12+31.86 | 13+23.11 | Med. Rt. | 92.31 | R=351.50', Δ=15°02'48" | |
| 13+23.11 | 15+21.58 | Med. Rt. | 198.47 | | |
| 15+21.77 | | Nose | 2.95 | R=1.00', Δ=168°50'05" | |
| 17+02.32 | | Nose | 2.95 | R=1.00', Δ=168°50'05" | |
| 17+02.32 | 18+99.86 | Med. Lt. | 197.54 | | |
| 18+99.86 | 19+91.11 | Med. Lt. | 93.31 | R=351.50', Δ=15°02'48" | |
| 19+91.11 | 20+81.59 | Med. Lt. | 91.52 | R=348.50', Δ=15°02'48" | |
| 20+81.59 | | Nose | 7.85 | R=2.50', Δ=180°00'00" | |
| 17+02.14 | 17+33.02 | Med. Rt. | 31.08 | R=159.50', Δ=11°04'55" | |
| 17+33.02 | 18+99.86 | Med. Rt. | 166.84 | | |
| 18+99.86 | 19+92.41 | Med. Rt. | 93.62 | R=356.50', Δ=15°02'48" | |
| 19+92.41 | 20+81.59 | Med. Rt. | 90.21 | R=343.50', Δ=15°02'48" | |
| 21+39.21 | | Nose | 5.32 | R=2.50', Δ=121°52'25" | |
| 21+39.21 | 23+23.03 | Med. Lt. | 183.82 | | |
| 21+37.00 | 22+08.05 | Med. Rt. | 81.77 | R=48.50', Δ=96°35'58" | |
| 22+08.05 | 22+40.35 | Med. Rt. | 34.58 | R=51.50', Δ=38°28'23" | |
| 22+40.35 | 23+23.03 | Med. Rt. | 82.68 | | |
| 23+23.03 | | Nose | 7.85 | R=2.50', Δ=180°00'00" | |
| Islands | | | | | |
| 298+73.14 | | Rt. Nose | 5.58 | R=2.50', Δ=127°53'30" | Rio Bravo |
| 298+73.14 | 298+89.09 | Rt. | 15.95 | Leg | Rio Bravo |
| 298+89.09 | | Rt. Nose | 5.03 | R=2.50', Δ=115°21'14" | |
| 15+36.46 | 15+52.15 | Lt. | 15.69 | Leg | Coors |
| 298+69.58 | 15+34.47 | Rt. | 18.85 | R=86.50', Δ=12°29'09" | |
| 15+36.46 | | Lt. Nose | 5.56 | R=2.50, Δ=127°25'33" | Coors |
| 300+26.09 | | Lt. Nose | 4.94 | R=2.50', Δ=113°12'59" | Rio Bravo |
| 300+26.09 | 300+36.3 | Lt. | 10.21 | Leg | Rio Bravo |
| 300+36.30 | | Lt. Nose | 5.53 | R=2.50', Δ=126°44'18" | |
| 16+72.36 | 16+82.73 | Rt. | 10.37 | Leg | Coors |
| 16+82.73 | | Rt. Nose | 5.56 | R=2.50', Δ=127°25'33" | Coors |
| 300+32.30 | 300+38.28 | Lt. | 11.07 | R=86.50', Δ=07°19'57" | Rio Bravo |
| 20+95.51 | | Nose 101.79' Lt. | 4.71 | R=1.50', Δ=180°00'02" | Shopping Center |
| 20+95.51 | 20+98.77 | 101.79' Lt. to 67.32' Lt. | 34.47 | | Shopping Center |
| 20+98.77 | | Nose 67.32' Lt. | 4.71 | R=1.50', Δ=180°00'02" | Shopping Center |
| 20+98.50 | 21+01.08 | 102.02' Lt. to 67.54' Lt. | 34.48 | | Shopping Center |
| Subtotal | | | 7216.30 | | |
| Less Curb Drop Inlets | | | −16.75 | | |
| TOTAL | | | 7199.55 | | |
| USE | | | 7200.00 | | |

## TURNOUTS (BASE BID)

| | | | | | | 207000 SUBGRADE PREPARATION | | 304000 BASE COURSE OR SUBBASE | | 401000 PLANT MIX BIT. PAVEMENT TYPE 1, GR. "A" | | 401210 60-70 BIT. MAT. | 401300 HYDRATED LIME | 408000 BIT. MAT. FOR PRIME COAT | EXC. | EMB | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STATION | LOCATION | TYPE | WIDTH | LENGTH | RADII | SQ. YDS. | TONS | SQ. YDS. | TONS | SQ. YDS. | TONS | TONS | TONS | TONS | CU.YD. | CU.YD. | |
| 313+69.7 | RIO BRAVO RT. | PAVED | 40' | 83' | 30',15' | | | 445.01 | 97.66 | 410.78 | 45.64 | 1.92 | 0.68 | | | 142 | |
| 314+13.7 | RIO BRAVO LT. | PAVED | 24' | 103' | 15',15' | | | 209.93 | 46.07 | 193.78 | 21.53 | 0.94 | 0.32 | | | 327 | |
| 314+69.2 | RIO BRAVO RT. | PAVED | 24' | 63' | 15',15' | | | 132.89 | 29.16 | 122.67 | 13.64 | 0.57 | 0.20 | | | 32 | |
| 314+89.5 | RIO BRAVO LT. | PAVED | 24' | 83' | 15',15' | | | 211.69 | 46.44 | 195.33 | 21.70 | 0.91 | 0.33 | | | 294 | |
| 321+32.8 | RIO BRAVO RT. | PAVED | 24' | 63' | 10',10' | | | 168.04 | 36.88 | 155.11 | 17.23 | 0.72 | 0.26 | | | 66 | |
| 321+40.0 | RIO BRAVO LT. | PAVED | 24' | 13' | 25',25' | | | 683.94 | 150.07 | 631.33 | 70.14 | 2.95 | 1.05 | | | 775 | |
| 20+97.8 | COORS LT | PAVED | 40' | 52' | 30',30' | | | 279.14 | 61.26 | 257.67 | 28.63 | 1.21 | 0.43 | | 26 | | INCL. FR. RD. LT. SHOPPING CENTER FLORA VISTA |
| 23+63.7 | COORS LT. | PAVED | 40' | 43' | 30',30' | | | 308.99 | 67.81 | 285.22 | 31.69 | 1.33 | 0.47 | | – | – | |
| 7+76.0 | FRONT. RD. RT. | PAVED | 24' | 45' | 30',30' | | | 188.74 | 41.42 | 174.22 | 19.36 | 0.81 | 0.29 | | | 12 | |
| TOTAL | | | | | | | | 2628.29 | 576.77 | 2426.11 | 269.56 | 11.36 | 4.03 | | 26 | 1648 | |

THESE QUANTITIES ARE INCLUDED IN SURF. SCHEDULE SHT. 2-5 + EARTHWORK SUMMARY SHT. 2-13.

## CONCRETE CHANNEL LINING (BID ALT. 1)
ITEM 511999

| STATION TO STATION | | LOC. | WIDTH | DEPTH | SLOPES | SQ. YDS. | REMARKS |
|---|---|---|---|---|---|---|---|
| 205+00 | 230+00 | 125' LT. SURV. ℄ | 10' BOTT. | 4' | 2:1, 2:1 | 8277.76 | |
| 230+00 | 235+00 | 125' LT. SURV. ℄ | 10' BOTT. | 4' TO 5' | 2:1, 2:1 | 1784.44 | TRANSITION 4' TO 5' DEPTH |
| 235+00 | 254+00 | 125' LT. SURV. ℄ | 10' BOTT. | 5' | 2:1, 2:1 | 7253.78 | |
| 254+00 | 264+00 | 125' TO 90' LT. SURV. ℄ | 10' BOTT. | 5' | 2:1, 2:1 | 3817.78 | TRANSITION 125' TO 90' LT. SURV. ℄ |
| 264+00 | 267+76.50 | 90' LT. SURV. ℄ | 10' BOTT. | 5' | 2:1, 2:1 | 1437.40 | |
| | | | | | TOTAL | 22571.16 | |
| | | | | | USE | 22580 | |

## CONCRETE MEDIAN PAVEMENT – 4" (COLORED AND PATTERNED) (BID ALT. 3)
ITEM 608404

| STATION TO STATION | | WIDTH | LOCATION | SQUARE YARD |
|---|---|---|---|---|
| Rio Bravo | | | | |
| 296+00.00 | 298+62.14 | 1.97' AVG. | Median | 57.44 |
| 300+50.29 | 313+88.02 | 6.66' AVG. | Median | 990.00 |
| 314+94.64 | 320+86.59 | 3.80' AVG. | Median | 533.67 |
| 321+95.74 | 324+70.00 | 8.10' AVG. | Median | 246.77 |
| Coors Blvd. | | | | |
| 11+09.08 | 15+21.77 | 2.42' AVG. | Median | 110.89 |
| 17+02.32 | 20+81.59 | 3.96' AVG. | Median | 166.78 |
| 21+39.21 | 23+23.03 | 6.22' AVG. | Median | 127.11 |
| Island | | | | |
| 298+73.14 | 298+89.09 | – | 33' ± RT. | 29.56 |
| 300+26.09 | 300+36.30 | – | 35' ± LT. | 13.89 |
| Total | | | | 2276.11 |
| Use | | | | 2280.00 |

NOTE: COLOR SHALL BE BAJA RED
(SEE DETAIL SHT. 2-3)

## SHREDDED BARK (BID ALT. 3)

| STATION TO | STATION | LOCATION | WIDTH | SHREDDED BARK 667215 SQUARE YARDS | * 9 MIL PLASTIC SQUARE YARDS |
|---|---|---|---|---|---|
| Rio Bravo | | | | | |
| 304+71.26 | 313+84.04 | Median | 12.52' AVG. | 1269.78 | 1269.78 |
| 314+98.58 | 320+82.65 | Median | 5.02' AVG. | 326.00 | 326.00 |
| 321+99.76 | 324+70.00 | Median | 10.55' AVG. | 316.67 | 316.67 |
| Coors | | | | | |
| 11+31.38 | 12+58.02 | Median | 13.65' AVG. | 192.11 | 192.11 |
| 21+44.44 | 22+15.12 | Median | 12.51' AVG. | 98.22 | 98.22 |
| Total | | | | 2202.78 | 2202.78 |
| Use | | | | 2210 | 2300 |

*For information only. Cost to be included in Cost of Shredded Bark.

## SOIL CEMENT LINED DITCH – 12" (BID ALT. 2)
ITEM 306004

| STATION TO STATION | | LOC. | WIDTH | DEPTH | SLOPES | SQ. YDS. | REMARKS |
|---|---|---|---|---|---|---|---|
| 131+00 | 147+50 | LT. | 9' | 1' | 3:1, 6:1 | 1650 | "V" DITCH |
| 131+00 | 145+50 | RT. | 9' | 1' | 3:1, 6:1 | 496.50 | "V" DITCH |
| 147+50 | 148+50 | LT. | 9' TO 13.5' | 1' TO 1.5' | 3:1, 6:1 | 125 | TRANSITION TO |
| 148+50 | 171+50 | LT. | 13.5' | 1.5' | 3:1, 6:1 | 3450 | "V" DITCH |
| 171+50 | 172+50 | LT. | 13.5' TO 20' | 1.5' TO 2' | 3:1–2:1, 6:1 | 186 | TRANSITION TO 2' DEPTH, 4' BOTT. |
| 172+50 | 191+00 | LT. | 20' | 2' | 2:1, 6:1 | 4111 | 4' BOTTOM |
| 191+00 | 192+00 | LT. | 20' TO 24' | 2' TO 2.5' | 2:1 TO 6:1 | 84.14 | 4' BOTTOM |
| 192+00 | 203+50 | LT. | 24' | 2.5' | 2:1, 6:1 | 1056.17 | 4' BOTTOM |
| 203+50 | 205+00 | LT. | 24' TO 22' | 2.5' TO 3' | 2:1, 6:1–2:1 | 146.35 | TRANSITION TO 10' BOTT. CONC. CH. |
| 170+20 | 173+50 | RT. | 9' | 1' | 3:1, 6:1 | 113.00 | "V" DITCH |
| 176+00 | 182+00 | RT. | 9' | 1' | 3:1, 6:1 | 205.45 | "V" DITCH |
| 192+50 | 203+50 | RT. | 9' | 1' | 3:1, 6:1 | 376.65 | "V" DITCH |
| | | | | | TOTAL | 12000.26 | |
| | | | | | USE | 12010 | |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

# MISCELLANEOUS QUANTITIES

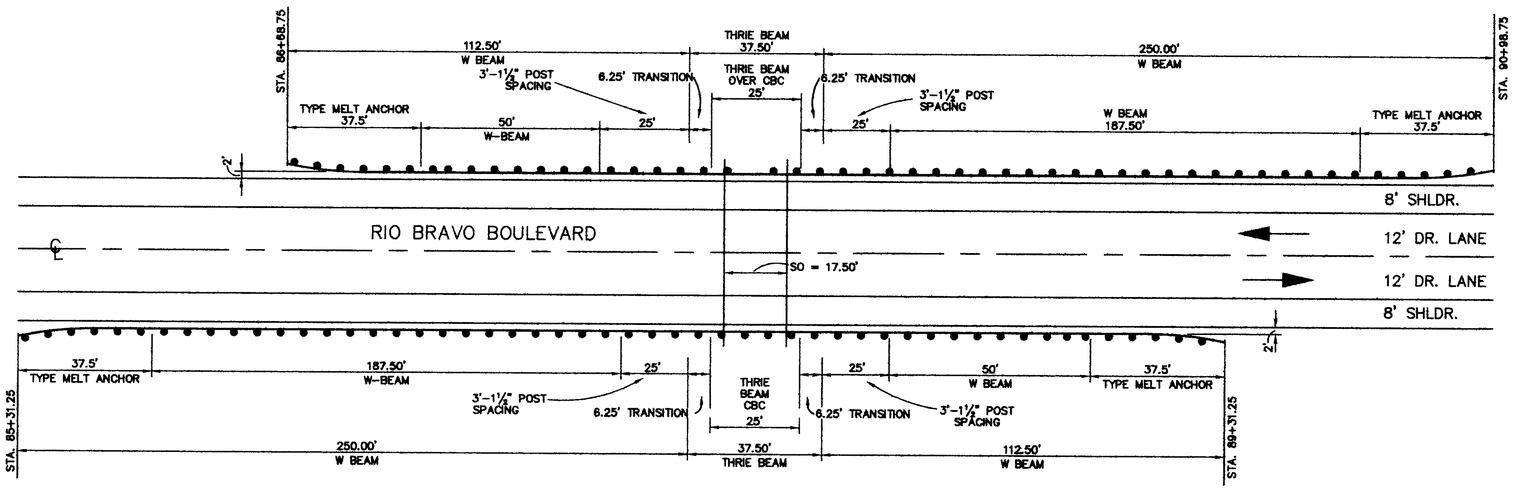
Time: 7:43:41
Date: 7/30/1997 BY: ELP
Drawing File: L:\PROJECTS\28164\STD\SRB-2-14

ENGR. FILE :

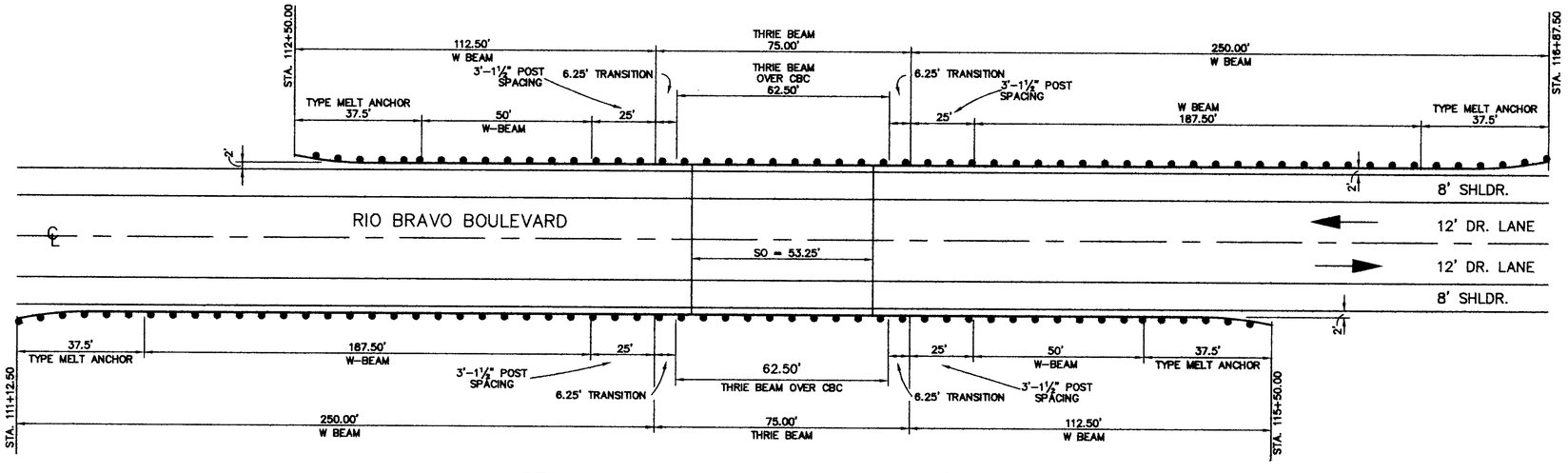
Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-14

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-15 |




STA. 88+00 2-8'x4' CBC (BID ALT. 2)




STA. 114+00 5-10'x5' CBC (BID ALT. 2)

## METAL BARRIER SCHEDULE

| STATION TO STATION | LOC. | 606000 METAL BARRIER W-BEAM | 606010 METAL BARRIER THRIE BEAM | 606125 GUARDRAIL ANCHORAGE TYPE MELT | REMARKS |
|---|---|---|---|---|---|
| | | LIN. FT. | LIN. FT. | EACH | |
| BID ALT. 2 | | | | | |
| 85+31.25 86+31.25 | RT. | 362.50 | 37.50' | 2 | 2-8'x4'CBC |
| 86+68.75 90+98.75 | LT | 362.50 | 37.50' | 2 | 2-8'x4'CBC |
| | | | | | |
| 111+12.50 115+50.00 | RT. | 362.50 | 75.00' | 2 | 5-10'x5'CBC |
| 112+50.00 116+87.50 | LT | 362.50 | 75.00' | 2 | 5-10'x5'CBC |
| BASE BID | | | | | |
| 269+47.72 272+66.47 | RT. | 250.00 | 68.75' | 1 | BRIDGE OVER AMOLE CHANNEL |
| 274+32.54 276+13.79 | RT | 112.50 | 68.75' | 1 | BRIDGE OVER AMOLE CHANNEL |
| 270+55.96 272+37.21 | LT | 112.50 | 68.75' | 1 | BRIDGE OVER AMOLE CHANNEL |
| 274+05.77 277+24.52 | LT | 250.00 | 68.75' | 1 | BRIDGE OVER AMOLE CHANNEL |
| | | | | | |
| 315+47.50 320+71.8 | LT. | 637.5 | | 2 | 2:1 SLOPES |
| 321+57.50 324+70.00 | LT | 387.5 | | 2 | 2:1 SLOPES |
| | | | | | |
| 268+49.26 RT. SURV. ℄ | ℄ | 50.00 | | | AT CUL-DE-SAC (WITH 2 STD. TERM.) |
| | | | | | |
| BASE BID TOTAL | | 1800.00 | 275.00 | 8 | |
| BASE BID USE | | 1800 | 275 | 8 | |
| BID ALT. 2 TOTAL | | 1450.00 | 225.00 | 8 | |
| BID ALT. 2 USE | | 1450 | 225 | 8 | |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

**BARRIER LAYOUT**

Time: 14:31:51
Date: 07/31/1998 PJB
Drawing File: L:\PROJECTS\28164\STD\SRB-2-15

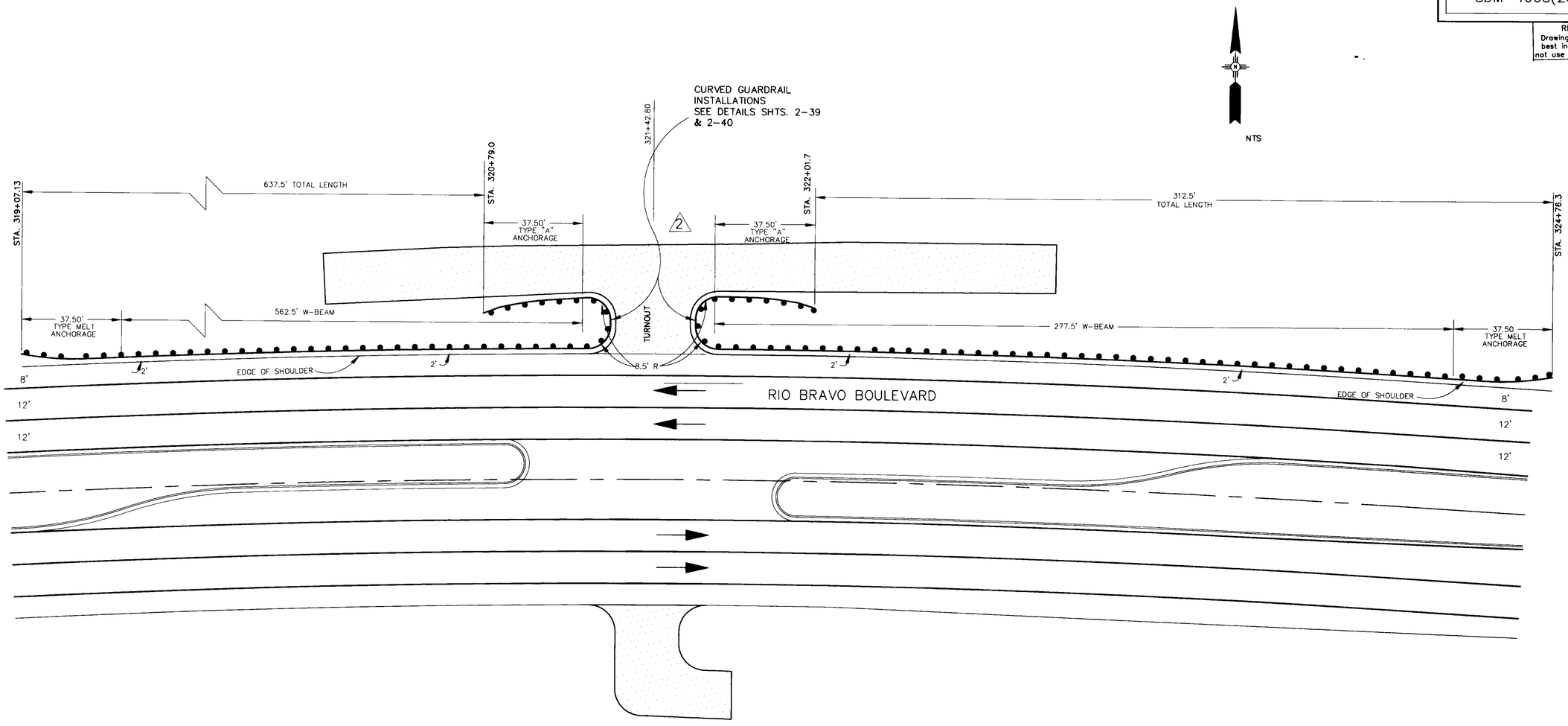
ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-15

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-17 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.




STA. 319+07 TO STA. 324+76
2:1 ROADWAY SLOPES LT.

1 REVISED FOR STATIONING

2 REVISED FOR TURN OUT WIDTH

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

**METAL BARRIER LAYOUT**
**RIO BRAVO BLVD.**

Time: 13:30:41
Date: 4/6/1997 JTN
Drawing File: L:\PROJECTS\28164\STD\SRB-2-17

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-17

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-18 |

# REVEGETATION/EROSION CONTROL PLAN

PROJECT SDM-4008(208)

A. ERODIBLE SURFACE AREA

ALL REQUIREMENTS OUTLINED IN THE FEDERAL ENVIRONMENTAL PROTECTION AGENCY'S (EPA) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) AND THE NEW MEXICO CLEAN WATER ACT SHALL BE STRICTLY ADHERED TO DURING THE COURSE OF CONSTRUCTING THIS PROJECT. EXPOSED AREAS OF DISTURBANCE SHALL BE KEPT TO A MINIMUM TO PERFORM PROJECT CONSTRUCTION AND SHALL BE PROTECTED BY THE APPLICATION OF TEMPORARY SOIL STABILANT AS STATED BELOW AND ANY OTHER SEDIMENT CONTROL DEVICES REQUIRED UNTIL PERMANENT MEASURES ARE APPLIED.

B. TEMPORARY SOIL STABILANT

TEMPORARY SOIL STABILANT SHALL BE APPLIED TO ALL EXPOSED SOIL AREAS WHICH ARE NOT BEING ACTIVELY WORKED. THE SOIL STABILIZING SUBSTANCE SHALL BE A POLYMERIC EMULSION CONSISTING OF AT LEAST 46% SOLIDS BY WEIGHT, AND AT LEAST 90% BY WEIGHT OF THESE SOLIDS SHALL BE ACRYLIC. INGREDIENTS SHALL BE AS FOLLOWS: SOIL PENETRANT (SODIUM SILICATES @ 3.5% MIN. OF TOTAL WEIGHT), COALESING AGENT (POLY ETHOXYLATED ETHANOL @ 1% MIN. OF TOTAL WEIGHT), ACRYLIC CO-POLYMERS (METHACRYLATES AND ACRYLATES @ 40% OF TOTAL WEIGHT). THE SUBSTANCE SHALL CONTAIN AN ANTIFOAMING AGENT AND A COLOR ADDITIVE TO ASSIST THE APPLICATOR IN UNIFORM APPLICATION OF THE PRODUCT AND WILL DISAPPEAR FROM THE SURFACE WITHIN 36 HOURS. THIS SUBSTANCE SHALL BE SOIL SEAL BY SOIL STABILIZATION PRODUCTS OR APPROVED EQUAL. ALL MANUFACTURER'S INSTRUCTIONS REGARDING THE PRODUCT INCLUDING APPLICATION RATES SHALL BE FOLLOWED. EXPOSED SOIL AREAS SHALL BE TREATED WITH TEMPORARY SOIL STABILANT AS OFTEN AS NEEDED TO CONTROL EROSION.

C. PERMANENT MEASURES

PRIOR TO COMMENCING THE SEEDING OPERATION, THE PROJECT MANAGER, LANDSCAPE ARCHITECT AND SEEDING CONTRACTOR'S REPRESENTATIVE SHALL REVIEW AREAS TO BE TREATED TO DETERMINE THE APPROPRIATE CLASS OF SEEDING AND TO INSURE THAT SLOPES HAVE BEEN CONSTRUCTED PROPERLY. SEEDING EQUIPMENT SHALL ALSO BE INSPECTED DURING THIS PERIOD TO INSURE PROPER OPERATION.

ANY WORK DONE PRIOR TO THIS INSPECTION SHALL BE REJECTED.

ALL AREAS TO BE SEEDED SHALL BE AS DIRECTED BY THE PROJECT MANAGER AND/OR THE LANDSCAPE ARCHITECT. AREAS 4:1 OR FLATTER SHALL BE TREATED WITH CLASS "A" SEEDING; SLOPES STEEPER THAN 4:1 SHALL BE TREATED WITH CLASS "D" SEEDING. HAY MULCH FOR CLASS "A" SHALL BE BARLEY STRAW AT THE RATE OF 1.5 TONS PER ACRE. MULCH SHALL BE APPLIED AS SOON AS POSSIBLE AFTER THE SEED AND FERTILIZER ARE APPLIED. ALL SEEDED AREAS SHALL BE MULCHED THE SAME DAY THEY ARE SEEDED. ANY SEEDED AREAS NOT MULCHED THE SAME DAY SHALL BE REJECTED AND RESEEDED AND NO EXTRA PAYMENT SHALL BE MADE THEREFOR.

MULCH ANCHORING TACK FOR CLASS "A" SEEDING SHALL BE THE SAME AS THE TEMPORARY SOIL STABILANT EXCEPT THAT IT IS APPLIED AS AN OVERSPRAY AFTER FERTILIZER, SEED AND MULCH ARE IN PLACE. TACK SHALL BE APPLIED AT A SUFFICIENT RATE SO AS TO PREVENT MULCH FROM MOVING DUE TO WINDS OR TURBULENCE CREATED BY TRAFFIC ON THE ROADWAY. AREAS WHERE MULCH FAILS TO ADHERE SHALL BE REMULCHED AND TACKED AND NO EXTRA PAYMENT SHALL BE MADE THEREFOR. SOIL RETENTION BLANKET USED FOR CLASS "D" SEEDING SHALL BE PPS SUPER DUTY, AMERICAN EXCELSIOR HIGH VELOCITY, NORTH AMERICAN GREEN S-150 OR APPROVED EQUAL. ANCHORING SHALL BE BY THE USE OF 8"x1"x8" "U" SHAPED STEEL STAPLES OF .091 MINIMUM DIAMETER AND SPACED AS RECOMMENDED BY THE MANUFACTURER. BLANKETS SHALL BE LAID FROM TOP TO BOTTOM ON THE SLOPE WITH SEAMS RUNNING VERTICALLY AND LAPPED AS PER MANUFACTURER'S RECOMMENDATION.

ON AREAS WITH SLOPES GREATER THAN 3:1, GRAVEL MULCH SHALL BE USED. GRAVEL MULCH SHALL BE CRUSHED OR SCREENED GRAVEL 3/4" TO 1" MAXIMUM SIZE WITH A MINIMUM OF ONE ANGULAR FACE. GRAVEL MULCH SHALL BE PLACED BY HAND OR BY MECHANIZED EQUIPMENT THAT PROVIDES FULL COVERAGE AT A UNIFORM THICKNESS OF 2 INCHES IN DEPTH.

CONTRACTORS' CAMPSITES, STOCKPILE AREAS AND ANY OTHER NONDESIGNATED HAUL ROAD OR DISTURBED AREA SHALL BE TREATED WITH CLASS "A" SEEDING AND NO MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

PRIOR TO PERFORMING SEEDING OPERATIONS ALL WEED SPECIES WHICH MAY HAVE GROWN IN AREAS TO BE SEEDED AND WILL INTERFERE WITH THE SEED AND MULCH MAKING CONTACT WITH THE SOIL SHALL BE REMOVED.

CLASS "G" MULCH SHALL BE APPLIED FROM SEPTEMBER 1 THROUGH APRIL 30. MULCH SHALL BE BARLEY STRAW AT THE RATE OF 1.5 TONS PER ACRE AND SHALL BE ANCHORED AS IN CLASS "A" SEEDING ABOVE.

** SEED MIX

| SPECIES | ORIGIN | LBS. PURE LIVE SEED PER ACRE |
|---|---|---|
| BOUTELOUA GRACILIS (BLUE GRAMA) | HACHITA | 2.0 |
| BOUTELOUA CURTIPENDULA (SIDEOATS GRAMA) | NINER | 4.0 |
| ORYZOPSIS HYMENOIDES (RICE GRASS) | PALOMA | 5.0 |
| HILARIA JAMESIL (GALLETA GRASS) | VIVA | 2.0 |
| SPOROBOLUS CRYPTANDRUS (SAND DROP SEED) | N.M. REGION | 1.0 |
| ATRIPLEX CANESCENS (FOUR WING SALTBUSH) | N.M. REGION (DEWINGED) | 1.0 |
| | TOTAL | 15.0 |

** THE PROJECT MANAGER SHALL CONTACT THE NEW MEXICO DEPARTMENT OF AGRICULTURE SEED TESTING LABORATORY AT 646-2886 TWO WEEKS PRIOR TO SEEDING SO THAT AN OFFICAL SEED SAMPLE CAN BE TAKEN DURING THE SEEDING OPERATION.

FERTILIZER REQUIREMENTS

| CHEMICAL | ACTUAL MIN. POUNDS/ACRE |
|---|---|
| SLOW RELEASE NITROGEN (I.E., UREA FORMALDEHYDE) | 50 |
| PHOSPHORUS, AS $P_2O_5$ | 46 |
| SULPHUR (IN A WATER SOLUBLE FORM) | 48 |

SEEDING DATES

*A. PERIOD A TO B - MAY 1 THROUGH MAY 31
B. PERIOD B TO E - JUNE 1 THROUGH AUGUST 31
C. PERIOD C TO D - NONE
>D. PERIOD E TO A - SEPTEMBER THROUGH APRIL 30

*WATER FOR PERIOD A TO B SHALL BE APPLIED ACCORDING TO SECTION 632.39 OF THE STANDARD SPECIFICATIONS AT THE FOLLOWING RATES AND SHALL CONTINUED UNTIL JUNE 14:

FIRST TWO WEEKS - FOUR APPLICATIONS OF ONE INCH EACH, TIMED THREE DAYS APART. SUBSEQUENT WEEKS - ONE INCH PER WEEK.

>DURING THIS PERIOD CLASS "G" MULCH SHALL BE APPLIED. IT SHALL BE THE RESPONSIBILITY OF THE PROJECT MANAGER TO ADVISE THE CONSTRUCTION BUREAU OF THE NEED TO INITIATE A PROJECT TO PERFORM PERMANENT SEEDING.

ANY PROPOSED CHANGES OR MODIFICATIONS TO THIS PLAN SHALL BE DISCUSSED WITH THE LANDSCAPE ARCHITECT PRIOR TO MAKING SUCH CHANGES OR MODIFICATIONS.

## BID ALT. 2

CLASS "A" SEEDING ITEM NO. 632000

ROADWAY SLOPES (3:1 OR FLATTER) = 12.2469 ACRES

TOTAL = 12.2469
USE = 13 ACRES

CLASS "D" SEEDING ITEM NO. 632030

ROADWAY SLOPES (STEEPER THAN 3:1) = 9.8668 ACRES

TOTAL = 9.8668
USE = 10 ACRES

CLASS I TEMPORARY SOIL STABILANT ITEM NO. 603100

USE 60% OF CLASS "A" SEEDING = 12.2469 x 0.60 = 7.3481

TOTAL = 7.3481
USE = 8 ACRES

## BASE BID

CLASS "A" SEEDING ITEM NO. 632000

ROADWAY SLOPES (3:1 OR FLATTER) = 12.0550 ACRES
DISTURBED AREA FOR UNCLASSIFIED EXCAVATION = 10 ACRES

TOTAL = 22.0550
USE = 23 ACRES

CLASS I TEMPORARY SOIL STABILANT ITEM NO. 603100

USE 60% OF CLASS "A" SEEDING = 22.0550 x 0.60 = 13.2330

TOTAL = 13.2330
USE = 14 ACRES

SEEDING QUANTITIES SHOWN WERE USED FOR ESTIMATING PURPOSES ONLY. FINAL PAYMENT SHALL BE MADE ON ACTUAL AREAS SEEDED. AS DETERMINED BY THE PROJECT MANAGER.

JOHN ENGLER N.M. REGISTERED LANDSCAPE ARCHITECT 10 Sept 97

**BASE BID, BID ALT. 1, 2, 3**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

# EROSION CONTROL PLAN AND SEEDING SCHEDULE

Time: 12:14:43
Date: 9/4/97 ELP
Drawing File: L:\PROJECTS\28164\STD\SRB-2-18.DWG

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-18

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-19 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

| CURVE | RADIUS | LENGTH | DELTA | PC OPP. STA. | PT OPP. STA. |
|---|---|---|---|---|---|
| 1 | 64' | 52.84' | 47°18'35" | 9+42.31 – RT. 35.99' | 13+83.02 – RT. 12.00' |
| 2 | 56.67' | 108.05' | 109°14'55" | 12+45.08 – RT. 12.00' | 8+75.26 – LT. 12.00' |
| 3 | 66.00' | 103.20' | 89°35'30" | 7+69.93 – LT. 77.52' | 8+35.93 – LT. 12.00' |
| 4 | 66.00' | 104.14' | 90°24'30" | 7+71.04 – RT. 78.47' | 8+37.04 – RT. 12.00' |
| 5 | 66.00' | 82.72' | 71°48'39" | 7+70.97 – LT. 15.44' | 7+45.92 – LT. 78.47' |
| 6 | 62.00' | 96.95' | 89°35'30" | 6+85.04 – RT. 12.00' | 7+47.01 – RT. 73.56' |
| 7 | 73.97' | 115.67 | 89°35'30" | 6+85.04 – LT. 12.00' | 6+11.04 – LT. 61.45' |
| 8 | 50.00' | 94.41' | 108°11'21" | 6+85.01 – LT. 12' | 7+70.97 – LT. 15.44' |

SCALE: 1" = 20'

MEADE AVENUE S.W. (BASE BID)
S 47°32'09" W

MEADE 13+83.02

9+42.31

9+00

2-6'x6' CBC

8+37.04

8+00

STA. 269+27.94
RIO BRAVO

℄ CONSTRUCTION

STA. 269+22.86
RIO BRAVO

℄ SURVEY

270+00

269+00

STA. 268+49.26 RIO BRAVO
STA. 7+40.49 CONDERSHIRE
STA. 19+56.13 FRONTAGE RD.

STA. 19+00.66
FRONTAGE RD.

STA. 19+00.68 FRONTAGE RD.

④

⑥

℄ CONDERSHIRE

CONDERSHIRE DRIVE
S 00°13'34" W

①

STA. 13+06.86 MEADE
STA. 9+74.57 CONDERSHIRE

②

③

⑤

⑧

⑦

PT = 8+76.14

8+75.26

8+35.93

9+56.68 = PT

MEADE
12+45.08

BASE BID

BID ALTERNATE
2 & 3

STA.267+71.94
RIO BRAVO

STA. 267+70.83
RIO BRAVO

268+00

STA. 19+16.62
FRONTAGE RD.

18+05.76, 12.06' LT.
FRONTAGE RD.

18+03.74, 12' RT.
FRONTAGE RD.

℄ FRONTAGE ROAD

RIO BRAVO BOULEVARD
N 89°49'05" E

FRONTAGE ROAD (BASE BID)
N 89°49'05" E

℄ MEADE AVE.

℄ CONSTRUCTION CBC

267+00

**BASE BID /
BID ALTERNATE 2, & 3**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

**RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO**

**MEADE AVE / RIO BRAVO BLVD. /
CONDERSHIRE DR.**

INTERSECTION LAYOUT

Time: 14:12:51
Date: 4/19/2007 LJS
Drawing File: L:\PROJECTS\28164\STD\SRB-2-19

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-19

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-20 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

290+00

295+00

| CURVE | RADIUS | LENGTH | DELTA | PC. OPP. STA. | PT. OPP. STA. |
|---|---|---|---|---|---|
| 1 | 1.50' | 4.71' | 180°00'00" | 296+00.00 – RT. 10.50' | 296+00.00 – LT. 13.50' |

SCALE: 1" = 20'

℄ RIO BRAVO STA. 290+00 MATCH LINE

℄ CONSTRUCTION

STA: 292+45.79

PC = 290+95.31

℄ SURVEY

4944.95
4946.20
4947.30
4948.08
4948.57
4948.74
4948.61
4948.16
4947.42
4946.36
4945.00
4943.82

+296+00.00

℄ RIO BRAVO STA. 296+00 MATCH LINE
SEE SHEET 2-21

STA BACK: 294+84.75
EQUATION
STA AHEAD: 294+93.47

1.5' 1.5' 1.5' 1.5'
6'

REFER TO SHEET 9-9 FOR STRIPING DETAILS.

**AS-BUILT**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | ADDED SPOT ELEV.'S | 6/19/98 | CFW |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

INTERSECTION LAYOUT

**BASE BID**

Time: 14:17:7
Date: 6/19/1998 RKA
Drawing File: L:\PROJECTS\28164\STD\SRB-2-20

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-20

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-21 |

CURVE DATA

| CURVE | RADIUS | LENGTH | DELTA | PC OPP. STA. | PT OPP. STA. |
|---|---|---|---|---|---|
| 3 | 159.50' | 31.08' | 11°09'55" | 14+90.88 – LT. 14.50' | 15+21.77 – LT 11.48 |
| 4 | 1.00' | 2.95' | 168°50'05" | 15+21.77 – LT. 11.48' | 15+21.58 – LT 9.50' |
| 5 | 84.00' | 98.12' | 66°55'44" | 15+32.44 – RT. 40.00' | 300+39.45 – RT. 39.00' |
| 6 | 2.50' | 4.94' | 113°12'59" | 16+71.76 – LT. 45.50' | 300+24.34 – LT. 32.50' |
| 7 | 2.50' | 5.56' | 127°25'33" | 16+84.11 – RT. 45.50' | 300+31.35 – LT. 47.52' |
| 8 | 86.5' | 11.07' | 07°19'57" | 300+31.35 – LT. 47.52' | 300+38.28 – LT. 36.50' |
| 9 | 2.50' | 5.53' | 126°44'18" | 300+36.30 – LT. 32.50' | 300+38.28 – LT. 36.50' |
| 10 | 50.00' | 97.99' | 112°17'29" | 300+91.53 – LT. 39.00' | 17+48.02 – RT. 40.00' |
| 11 | 159.50' | 31.08' | 11°09'55" | 17+02.14 – RT. 11.48' | 17+33.02 – RT. 14.50' |
| 12 | 1.00' | 2.95' | 168°50'05" | 17+02.32 – RT. 9.50' | 17+02.14 – RT. 11.48' |
| 13 | 84.00' | 94.46' | 64°25'43" | 298+72.83 – LT. 27.00' | 16+76.99 – LT. 40.00' |
| 14 | 2.50' | 5.58' | 127°53'30" | 298+71.15 – RT. 36.53' | 298+73.14 – RT. 32.50' |
| 15 | 2.50' | 5.03' | 115°21'14" | 298+87.27 – RT. 32.50' | 15+51.48 – LT. 45.50' |
| 16 | 2.50' | 5.56' | 127°25'33" | 15+35.76 – LT. 49.47' | 15+37.78 – LT. 45.50' |
| 17 | 86.50' | 18.85' | 12°29'09" | 298+71.15 – RT. 36.53' | 15+35.76 – LT. 49.47' |
| 18 | 62.00' | 126.25' | 116°40'18" | 297+99.36 – RT. 27.00' | 14+65.00 – LT. 40.00' |
| 19 | 0.50' | 1.45' | 165°56'49" | 300+50.29 – RT. 11.49' | 300+50.41 – RT. 10.50' |
| 20 | 68.50' | 16.51' | 13°48'32" | 300+50.29 – RT. 11.49' | 300+66.69 – RT. 13.50' |
| 21 | 68.50' | 16.80' | 14°03'17" | 298+45.68 – LT. 13.50' | 298+62.26 – LT. 11.49' |
| 22 | 0.50' | 1.45' | 166°11'33" | 298+62.26 – LT. 11.49' | 298+62.14 – LT. 10.50' |
| 23 | 3830.22 | 162.59' | 02°25'56" | 298+62.14 – LT. 11.49' | 297+00.00 – LT. 10.50 |
| 24 | 3830.22 | 100.27' | 01°30'00" | 297+00.00 – LT. 10.50' | 296+00.00 – LT. 10.50 |
| 25 | 3833.22 | 100.35' | 01°30'00" | 296+00.00 – LT. 13.50' | 297+00.00 – LT. 13.50 |
| 26 | 3833.22 | 146.19' | 02°11'06" | 297+00.00 – LT. 13.50' | 298+45.68 – LT. 13.50 |
| 27 | 3809.22 | 222.59' | 03°20'53" | 300+50.41 – RT. 10.50' | 302+73.62 – RT. 10.50 |
| 28 | 3806.22 | 783.37' | 11°47'32" | 300+66.69 – RT. 13.50' | 308+52.84 – RT. 13.50 |

℄ RIO BRAVO STA. 296+00 MATCH LINE SEE SHEET 2-20

℄ COORS STA. 18+00 MATCH LINE SEE SHEET 2-26

℄ RIO BRAVO STA. 302+00 MATCH LINE SEE SHEET 2-22

℄ COORS STA. 14+00 MATCH LINE SEE SHEET 2-25

GUN CLUB LATERAL

EXISTING ROW

RIO BRAVO BLVD.

COORS BLVD.

℄ CONSTRUCTION & SURVEY

CONC. MEDIAN PAVEMENT – 4" COLORED AND PATTERNED SEE DETAIL SHEET 2-3

RIO BRAVO STA. 296+72.83

RIO BRAVO STA. 297+99.36

RIO BRAVO STA. 300+91.53

RIO BRAVO STA 300+39.45

COORS STA. 16+76.99

COORS STA. 17+48.02

COORS PT STA. 14+65.00

COORS STA. 15+32.44

STA. 299+56.71 RIO BRAVO
STA. 16 +12.30 COORS BLVD.

BUILD WHEEL CHAIR RAMPS TYPE 1 AS SHOWN AT INTERSECTION ISLANDS

REFER TO SHEET 9-10 FOR STRIPING DETAILS.

SCALE: 1" = 20'

AS-BUILT

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | ADDED SPOT ELEV.'S | 6/19/98 | GFW |
| 1 | CURVE DATA REVISION | 6/2/98 | GFW |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

RIO BRAVO BLVD. / COORS BLVD.

INTERSECTION LAYOUT

BASE BID

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

Time: 15:32:7
Date: 5/3/1999 BRS
Drawing File: L:\PROJECTS\28164\abuilts\Sh-2-21.dwg

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-21

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-22 |

303+00 304+00 305+00 306+00 307+00

| CURVE | RADIUS | LENGTH | DELTA | PC, OPP. STA. | PT, OPP. STA. |
|---|---|---|---|---|---|
| 1 | 3809.22' | 222.59' | 3°20'53" RT | 300+50.41 – RT. 10.50' | 302+73.63 – RT. 10.50' |
| 2 | 3806.22' | 783.37' | 11°47'32 RT | 300+66.69 – RT. ~~13.50'~~ | 308+52.84 – RT. 13.5' |
| 3 | 7169.00' | 435.61' | 03°28'53" RT | 302+73.63 – RT. 10.5' | 307+08.62 – LT. 13.5' |
| 4 | 3833.22' | 426.98' | 06°22'55" RT | 307+08.62 – RT. ~~13.5~~ | 311+34.09 – LT. 13.5' |

AS-BUILT

1

SCALE: 1" = 20'

RIO BRAVO BLVD.

℄ CONSTRUCTION

4942.44 4943.87 4945.19 4946.60 4948.02 4949.27 4950.23 4950.88 4951.21 4951.23 4950.81

4942.31 4943.64 4944.82 4946.14 4947.47 4948.69 4949.48 4950.08

4942.17 4943.50 4944.45 4945.73

4941.80 4943.13

+73.63 +71.31 +308.62

① ② ③ ④

8' 12' 12' 12' 12' 8'

℄ RIO BRAVO STA. 302+00 MATCH LINE SEE SHEET 2-21

℄ RIO BRAVO STA. 311+00 MATCH LINE SEE SHEET 2-23

STA. 304+21.26 TO STA. 304+71.26 TRANSITION MEDIAN PAVEMENT FROM STANDARD SECTION TO TYPICAL RAISED MEDIAN SECTION, SHEET 2-3

CONC. MEDIAN PAVEMENT – 4" COLORED AND PATTERNED SEE DETAIL SHEET 2-3

BARK MULCH W/9 MIL PLASTIC SEE DETAIL SHEET 2-3

REFER TO SHEET 9-11 FOR STRIPING DETAILS.

**AS-BUILT**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | ADDED SPOT ELEV.'S | 6/19/98 | GFW |
| 1 | CURVE DATA REVISION | 6/2/98 | GFW |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

RIO BRAVO BLVD. MEDIANS

**BASE BID**

**RECORD DRAWING**
Drawing revised to reflect the best information available. Do not use without field verification.

Time: 16:8:6
Date: 5/3/1998 BRS
Drawing File: L:\PROJECTS\28164\Asbuilts\Sb-2-22.dwg

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-22

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-23 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do [illegible] without field verification.

311+00 312+00 313+00 314+00 315+00 316+00

| CURVE | RADIUS | LENGTH | DELTA | PC (PP STA) | PT (PP STA) |
|---|---|---|---|---|---|
| 1 | 4158.78' | 472.4' | 6°30'42" RT | 310+57.44 - RT 1.50' | 315+29.85 - RT 1.50' |
| 2 | 4582.16' | 100.03' | 1°15'02" RT | 315+29.85 - RT 1.50' | 315+29.90 - RT 1.50' |
| 3 | 450' | 11.82' | 1°30'31" LT | 315+29.90 - RT 1.50' | 315+90.11 - LT 6.00' |
| 4 | 550' | 60.11' | 6°15'44" LT | 315+66.10 - LT 3.50' | 315+90.11 - LT 6.00' |
| 5 | 450.16' | 51.43' | 6°32'50" RT | 311+64.__ - LT 3.50' | 313+66.10 - LT 3.50' |
| 6 | 450' | 11.82' | 1°30'31" RT | 314+92.41 - RT 6.41' | 314+92.64 - LT 1.50' |
| 7 | 4582.16' | 99.97' | 1°15'02" RT | 314+92.64 - LT 1.50' | 314+92.64 - LT 1.50' |
| 8 | 550' | 60.11' | 6°15'44" LT | 314+92.41 - RT 6.41' | 316+1__.__ - RT 12.50' |
| 9 | 4582.16' | 34.14' | 0°25'34" RT | 316+[illegible]28 - RT 12.50' | 316+[illegible]62 - RT 12.50' |

N

SCALE: 1" = 20'

CONC. MEDIAN PAVEMENT – 4" COLORED AND PATTERNED SEE DETAIL SHEET 2-3

BARK MULCH W/9 MIL PLASTIC SEE DETAIL SHEET 2-3

ARENAL CANAL

CONC. MEDIAN PAVEMENT – 4" COLORED AND PATTERNED SEE DETAIL SHEET 2-3

BARK MULCH W/9 MIL PLASTIC SEE DETAIL SHEET 2-3

RIO BRAVO BLVD.

℄ RIO BRAVO STA. 311+00 MATCH LINE SEE SHEET 2-22

℄ CONSTRUCTION & SURVEY

SEE PREVIOUS SHT.

ARENAL CANAL

SEE NEXT SHT.

℄ RIO BRAVO STA. 319+00 MATCH LINE SEE SHEET 2-24

REFER TO SHEET 9-12 FOR STRIPING DETAILS.

REFER TO SHEET 10-9 FOR STOTM DRAIN DETAILS.

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | DATA CLARIFICATION | 5-18-98 | GFW |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

RIO BRAVO BLVD. MEDIANS

reissued 5/19/98 gc

Time: [illegible]
Date: [illegible]
Drawing File: [illegible]

ENGR. FILE

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-23

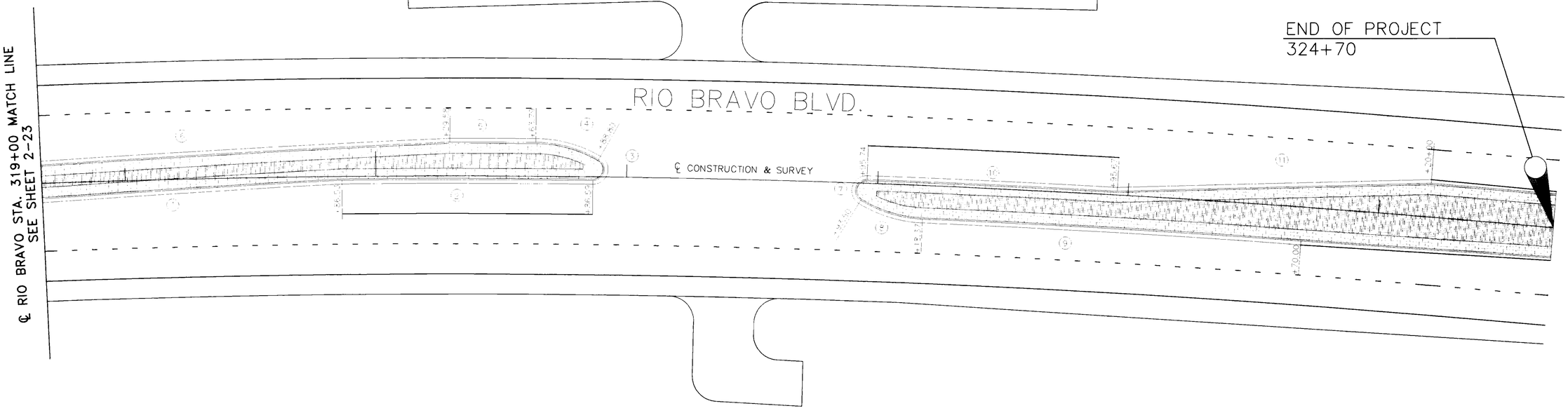
| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-24 |

**RECORD DRAWING**
Drawing revised to reflect the best information available. Do **not use** without field verification.

319+00 320+00 321+00 322+00 323+00 324+00

| CURVE | RADIUS | LENGTH | DELTA | P.T. OF P. STA. | P.T. OF P. STA. |
|---|---|---|---|---|---|
| 1 | 7049.58' | 474.7' | 03°51'50" RT | 319+61.50 - RT 13.50' | 324+56.23 - RT 13.50' |
| 2 | 459.18' | 190.0' | 01°54'03" RT | 321+56.69 - RT 1.50' | 323+56.69 - RT 1.50' |
| 3 | 4.50' | 11.8' | 150°33'01" | 322+68.50 - RT 1.50' | 322+68.50 - LT 4.50' |
| 4 | 50.50' | 26.01' | 29°44'15" | 322+42.68 - LT 17.50' | 322+68.50 - LT 4.50' |
| 5 | 459.18' | 44.31' | 05°31'39" RT | 323+56.69 - LT 1.50' | 323+99.79 - LT 13.50' |
| 6 | 7049.58' | 436.27' | 03°32'48" RT | 324+44.59 - LT 1.50' | 324+80.86 - LT 17.50' |
| 7 | 4.50' | 11.80' | 150°33'01" | 324+68.50 - RT 1.50' | 324+68.74 - LT 1.50' |
| 8 | 50.50' | 26.96' | 29°44'15" | 324+42.68 - RT 17.50' | 324+68.74 - RT 13.50' |
| 9 | 459.18' | 161.19' | 20°07'44" RT | 324+83.37 - RT 13.50' | 326+39.01 - RT 13.50' |
| 10 | 459.18' | 99.97' | 01°14'57" RT | 326+68.74 - LT 1.50' | 326+68.67 - LT 1.50' |
| 11 | 4371.12' | 121.16' | 01°03'50" RT | 326+68.67 - LT 1.50' | 326+80.00 - LT 13.50' |

SCALE: 1" = 20'




REFER TO SHEET 9-13 FOR STRIPING DETAILS.

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | DATA CLARIFICATION | 5-18-98 | GFW |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

RIO BRAVO MEDIANS

Revised 5/19/98 GE.

Date: 5/18/98 Rev.
Drawing No. 1 of 13 Sheets No. MEDIANS

ENGR. F.E.:

Conrad Hanking West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-24

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-25 |

8+00 9+00 10+00 11+00 12+00 13+00 14+00

## CURVE DATA

| CURVE | RADIUS | LENGTH | DELTA | PC OPP. STA. | PT OPP. STA. |
|---|---|---|---|---|---|
| 1 | 348.50' | 94.43' | 15°02'48" RT. | 11+38.47 – RT. 14.50' | 12+31.86 – RT. 2.55' |
| 2 | 351.50' | 92.31' | 15°02'48" LT. | 12+31.86 – RT. 2.55' | 13+23.11 – LT. 9.50' |
| 3 | 8.5000' | 23.17' | 156°12'27" RT. | 11+19.40 – RT. 10.76' | 11+22.38 – LT. 5.61' |
| 4 | 50.5000' | 19.55' | 22°11'08" LT. | 11+19.40 – RT. 10.76' | 11+38.47 – RT. 14.50' |

SCALE: 1" = 20'

STA. 8+50 COORS BLVD. BEG. CONST. BEG. TRANS.

STA. 11+10 COORS BLVD. END TRANSITION

EXISTING ROW

STA. 12+41.14 TO STA. 12+83.03 TRANSITION MEDIAN PAVEMENT FROM STANDARD SECTION TO TYPICAL RAISED MEDIAN SECTION, SHEET 2-3

EXISTING ROW

COORS BLVD.

℄ CONSTRUCTION & SURVEY

N.06°54'17"E., 2770.00'

22.38

23.11

+79.40

+38.47

+31.86

COORS BLVD.

℄ COORS STA. 14+00 MATCH LINE SEE SHEET 2-21

BARK MULCH W/9 MIL PLASTIC SEE DETAIL SHEET 2-3

CONC. MEDIAN PAVEMENT – 4" COLORED AND PATTERNED SEE DETAIL SHEET 2-3

EXISTING ROW

EXISTING ROW

REFER TO SHEET 9-14 FOR STRIPING DETAILS.

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | Curve data revision | 6/4/98 | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT
RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO
RIO BRAVO BLVD. / COORS BLVD.

INTERSECTION LAYOUT

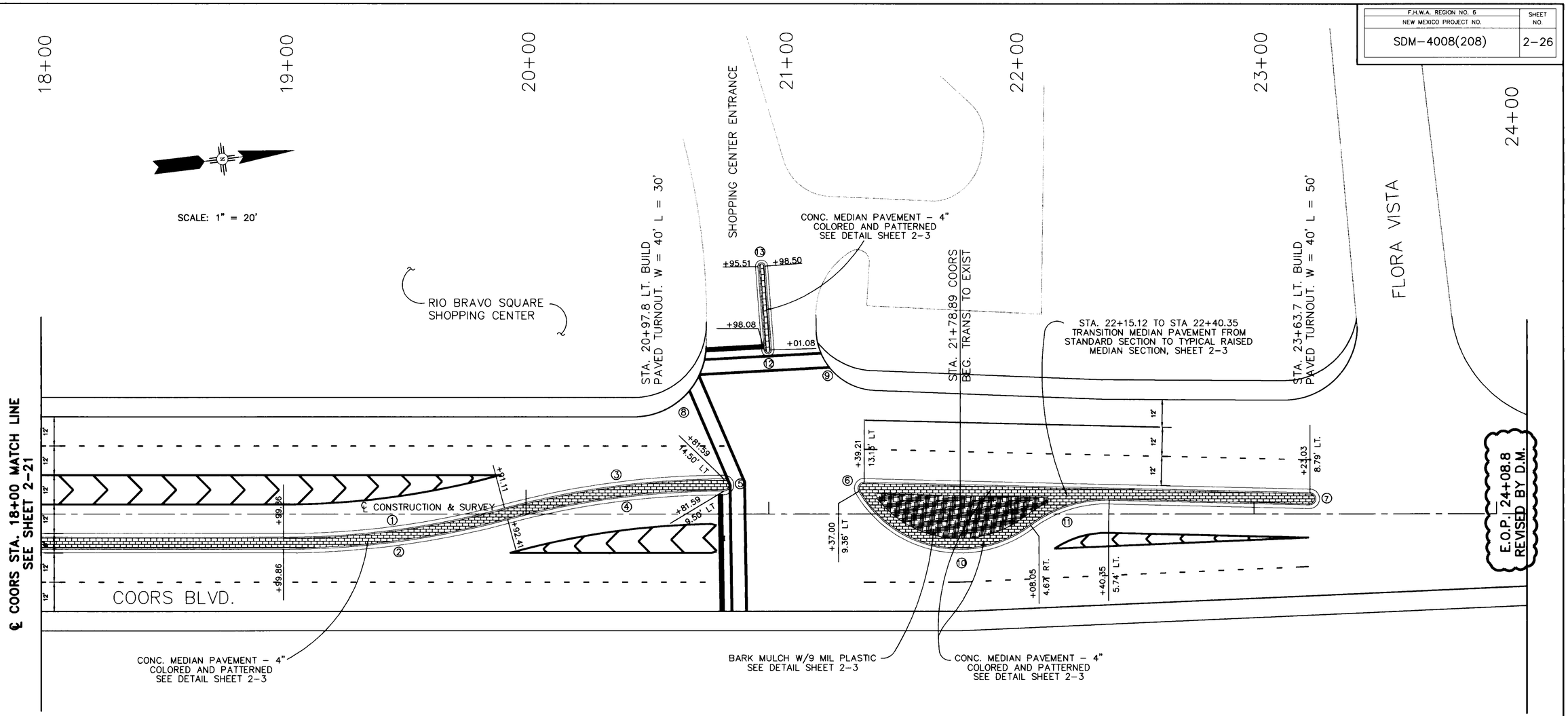
Time: 11:27:58
Date: 6/17/98
Drawing File: \\PROJECTS\28164\STD\5-27-98\SBB-2-25.DWG

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-25

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-26 |




CURVE DATA

| CURVE | RADIUS | LENGTH | DELTA | PC OPP. STA. | PT OPP. STA. |
|---|---|---|---|---|---|
| 1 | 351.50' | 92.31' | 15°02'48" | 18+99.86 - RT 9.50' | 19+91.11 - LT. 2.55' |
| 2 | 356.50' | 93.62' | 15°02'48" | 18+99.86 - RT 14.50' | 19+92.41 - LT. 2.27' |
| 3 | 348.50' | 91.52' | 15°02'48" | 19+91.11 - LT 2.55' | 20+81.59 - LT. 14.50' |
| 4 | 343.50' | 90.21' | 15°02'48" | 19+92.41 - RT 2.27' | 20+81.59 - LT. 9.50' |
| 5 | 2.50' | 7.85' | 180°00'00" | 20+81.59 - LT 14.50' | 20+81.59 - LT. 9.50' |
| 6 | 2.50' | 5.32' | 121°52'25" | 21+37.00 - LT. 9.36' | 21+39.21 - LT 13.13' |
| 7 | 2.50' | 7.85' | 180°00'00" | 23+23.03 - LT 8.79' | 23+22.91 - LT. 3.79' |
| 8 | 30.00' | 46.06' | 87°57'45" | 20+44.29 - LT 40.00' | 20+74.27 - LT. 68.93' |
| 9 | 25.00' | 37.92' | 86°53'46" | 21+19.47 - LT 75.51' | 21+43.50 - LT. 50.92' |
| 10 | 48.50' | 81.77' | 96°35'58" | 21+37.00 - LT 9.36' | 22+08.05 - RT. 4.67' |
| 11 | 51.50' | 34.58' | 38°28'23" | 22+08.05 - RT 4.67' | 22+40.35 - LT. 5.74' |
| 12 | 1.50' | 4.71' | 180°00'02" | 20+98.77 - LT 67.32' | 21+01.08 - LT. 67.54' |
| 13 | 1.50' | 4.71' | 180°00'02" | 20+95.51 - LT 101.79' | 20+98.50 - LT. 102.02' |

REFER TO SHEET 9-15 FOR STRIPING DETAILS.

**AS-BUILT**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION

COUNTY OF BERNALILLO

RIO BRAVO SQUARE SHOPPING CENTER ENTRANCE

**BASE BID**

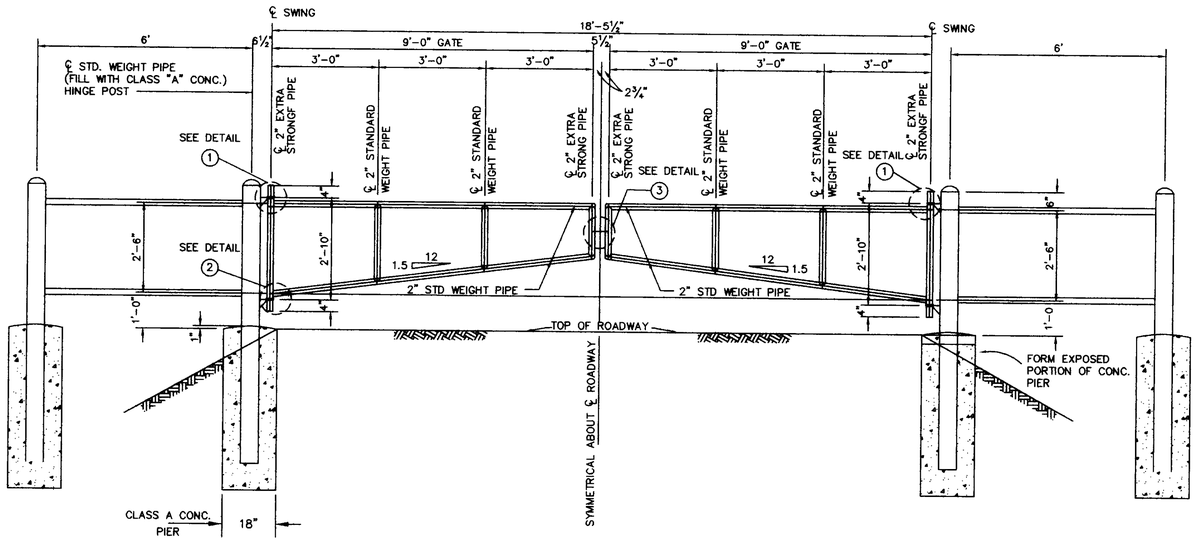
RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

Time: 9:54:48
Date: 5/4/2009 BRS
Drawing File: L:\PROJECTS\28164\Asbuilts\Sht-2-26.dwg

ENGR. FILE : _____

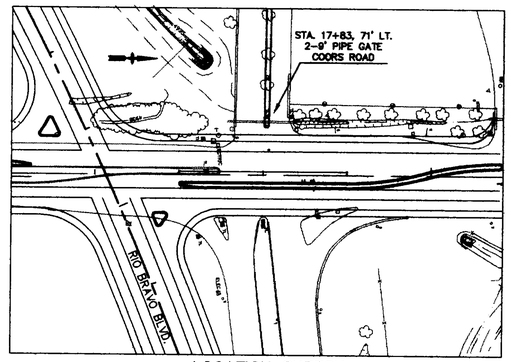
Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-26

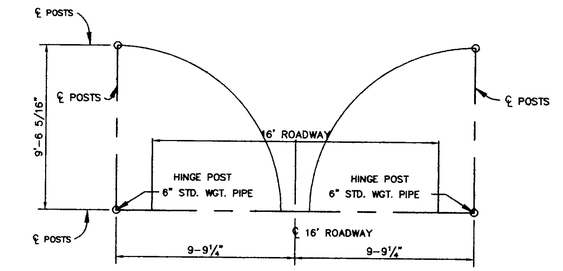



ELEVATION AT 2–9' GATES

(TWO LATCH POSTS REQUIRED)



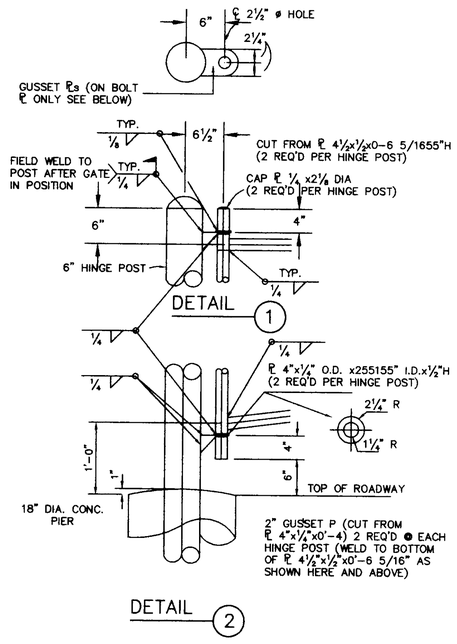

LOCATION SKETCH

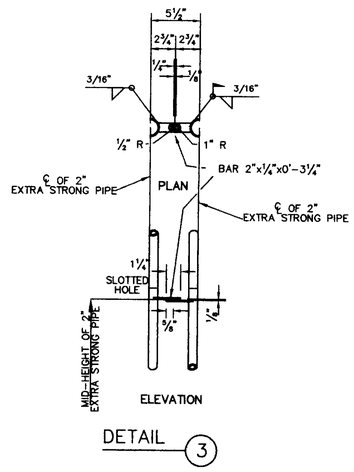



COORS BLVD.

PLAN AT 2–9' GATES

(NORMAL TO TURNOUT)




| * ESTIMATED QUANTITIES | 18' OPENINGS W/2–9' GATES |
|---|---|
| PIPE: 6" STD. WGT. | 32' |
| 2" EXTRA STRONG | 11' |
| 2" STD. WGT. | 69' |
| CONCRETE–CLASS A | 2.40 C.Y. |
| STRUCTURAL STEEL | |

* FOR CONTRACTORS INFORMATION ONLY

ESTIMATED QUANTITIES ARE FOR ONE COMPLETE GATE AND 6' OF PIPE FENCE PIPE. COST OF PIPE AND CONCRETE AND STRUCTURAL STEEL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR EACH GATE.

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

# MISCELLANEOUS DETAILS

| F.H.W.A. REGION NO. 6 / NEW MEXICO PROJECT NO. | SHEET NO. |
|---|---|
| SDM–4008(208) | 2–27 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

Time: 8:53:57
Date: 4/8/1997 LIS
Drawing File: L:\PROJECTS\2814A\STD\SRB-2-27

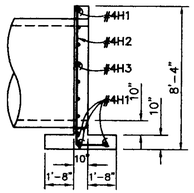
ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

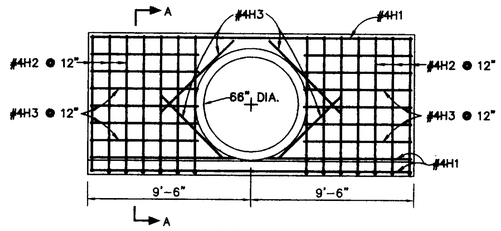
N.M. PROJECT NO. SDM–4008(208) SHEET 2–27

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-28 |

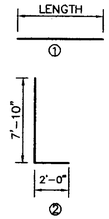
RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.




SECTION A-A
SCALE: 1/4" = 1'-0"



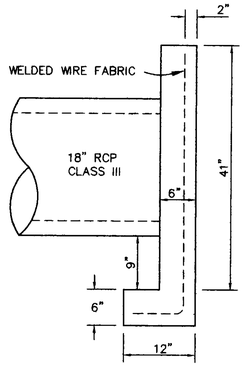

ELEVATION
SCALE: 1/4" = 1'-0"

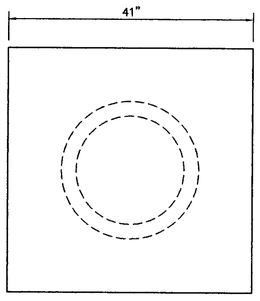



| REINFORCING STEEL FOR HEADWALL | | | | |
|---|---|---|---|---|
| BAR | TYPE | SIZE | LENGTH | NO. REQD. |
| #4H1 | 1 | #4 | 18'-6" | 4 |
| #4H2 | 2 | #4 | 9'-10" | 14 |
| #4H3 | 1 | #4 | 6'-0" | 16 |
| | | | | |

| QUANTITIES FOR 66" PIPE HEADWALL | | | |
|---|---|---|---|
| ITEM NO. | DESCRIPTION | UNITS | QTY. |
| | | | |
| 511000 | STRUCTURAL CONCRETE CLASS A | CY. | 6 |
| 540080 | REINFORCING BARS GRADE 60 | LB. | 210 |
| | | | |

66" CONC. PIPE HEADWALL




PRE-CAST CONCRETE PLUG

NOTE: PRECAST CONC. PLUG SHALL BE PLACED AT PIPE OPENING AND HELD IN PLACE WITH EMBANKMENT MATERIAL.

ESTIMATED QUANTITIES PER PLUG

| | | |
|---|---|---|
| STRUCTURAL CONCRETE CLASS A ITEM 511000 | 0.2162 | CU.YD. |
| WELDED WIRE FABRIC ITEM 540200 | 4.90 | POUND |

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

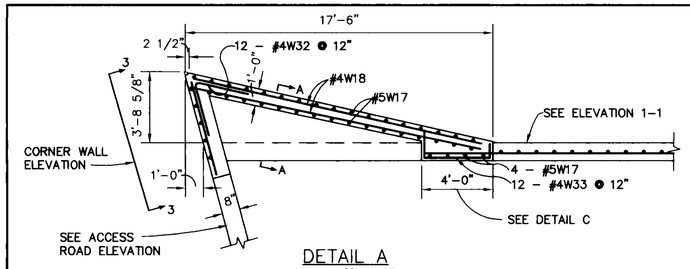
MISCELLANEOUS DETAILS

Time: 15:13:21
Date: 4/8/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\SRB-2-28

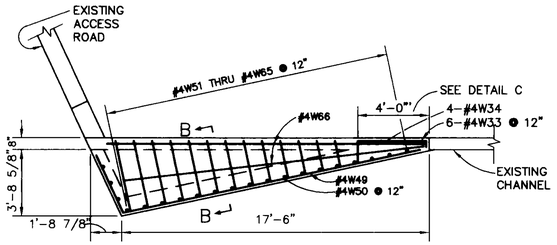
ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

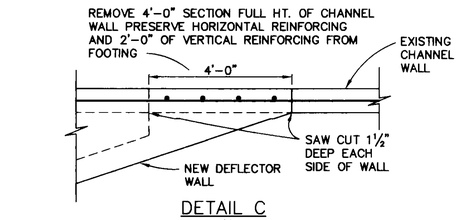
N.M. PROJECT NO. SDM-4008(208) SHEET 2-28



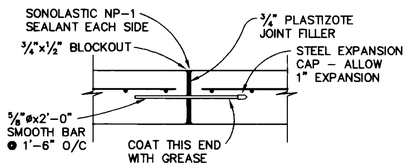

DETAIL A
SCALE: 1/4"=1'-0"



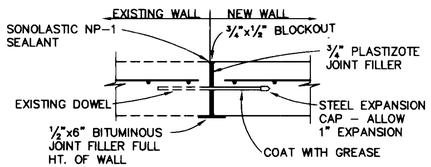

DETAIL B
SCALE: 1/4"=1'-0"



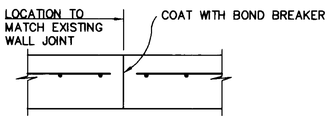

DETAIL C
SCALE: 1/2"=1'-0"



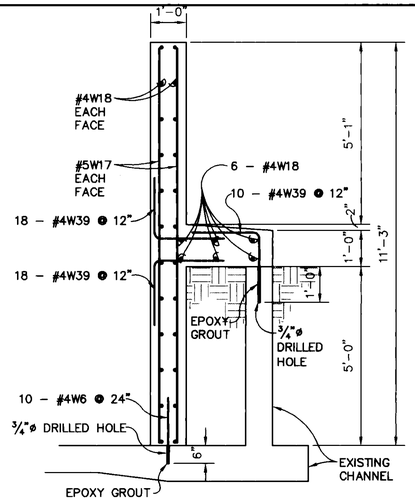

NEW EXPANSION JOINT DETAIL
SCALE: 3/4"=1'-0"



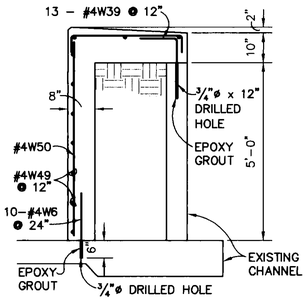

EXISTING EXPANSION JOINT DETAIL
SCALE: 3/4"=1'-0"



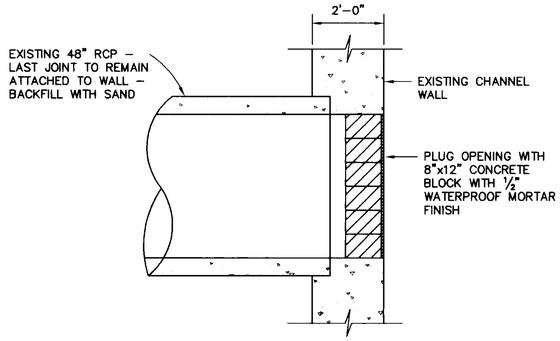

CONTRACTION JOINT DETAIL
SCALE: 3/4"=1'-0"




SECTION A-A
SCALE: 1/2"=1'-0"




SECTION B-B
SCALE: 1/2"=1'-0"




SECTION E-E
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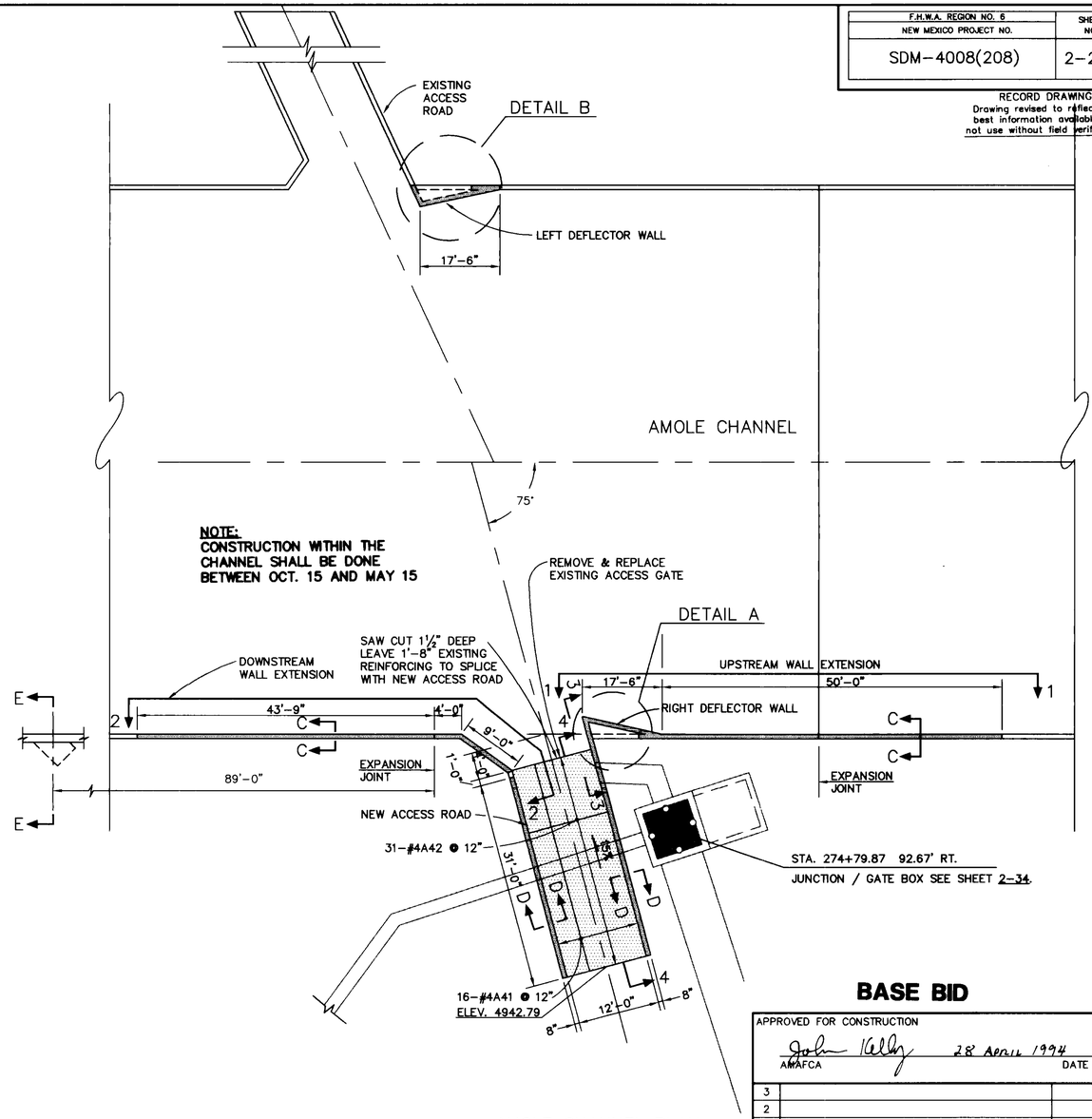


AMOLE CHANNEL PLAN
SCALE: 1"=10'

| QUANTITIES FOR AMOLE CHANNEL MODIFICATIONS | | | | | |
|---|---|---|---|---|---|
| ITEM NO. | DESCRIPTION | UNITS | QUANTITIES | | |
| | | | WALL MODIFICATIONS | ACCESS ROAD | TOTAL |
| 511000 | STRUCTURAL CONCRETE CLASS A | CY | 22 | 25 | 46 |
| 540060 | REINFORCING BARS GRADE 60 | LB | 1650 | 1080 | 2640 |

NOTE: 3/4"ø DRILLED HOLE AND EPOXY GROUT SHALL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS INCIDENTAL TO THE ITEM 511000 STRUCTURAL CONCRETE CLASS "A"

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-29 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

**BASE BID**

APPROVED FOR CONSTRUCTION
AMAFCA — 28 April 1994 — DATE

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

# AMOLE CHANNEL MODIFICATIONS SHT. 1 OF 2

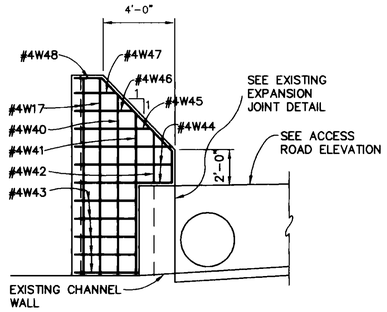
Date: 04/27/94
Drawing File: SDM-2-29

ENGR. FILE : _____

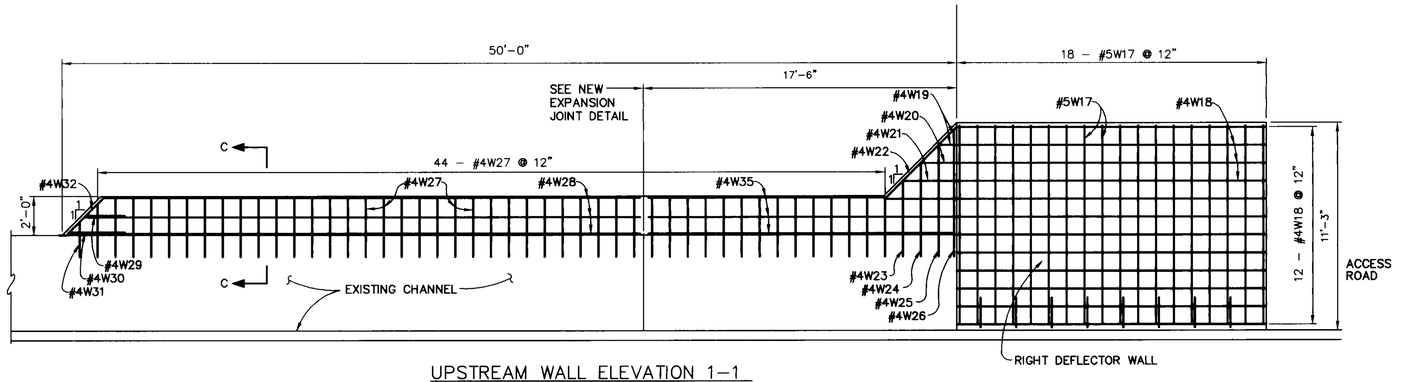
Connell Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008-(208) SHEET 2-29

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-30 |



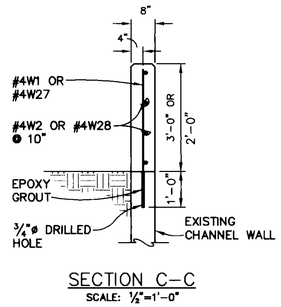

CORNER WALL ELEVATION 3-3
SCALE: 1/4"=1'-0"



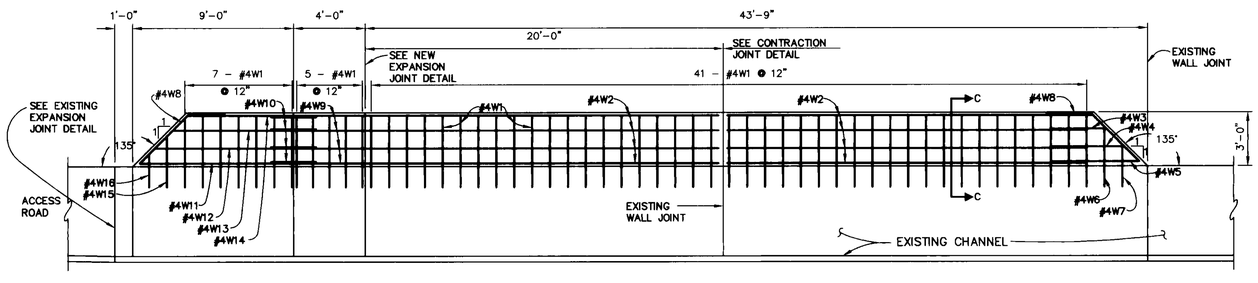

UPSTREAM WALL ELEVATION 1-1
SCALE: 1/4" = 1'-0"

REINFORCING STEEL FOR WALL EXTENSIONS

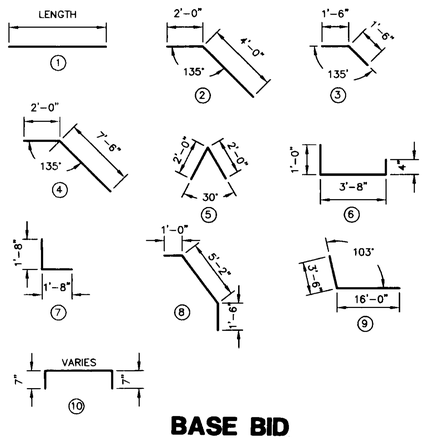
| BAR | TYPE | SIZE | LENGTH | NO. REQD |
|---|---|---|---|---|
| #4W1 | 1 | #4 | 3'-9" | 53 |
| #4W2 | 1 | #4 | 20'-0" | 8 |
| #4W3 | 1 | #4 | 2'-6" | 1 |
| #4W4 | 1 | #4 | 3'-6" | 1 |
| #4W5 | 1 | #4 | 4'-6" | 1 |
| #4W6 | 1 | #4 | 2'-6" | 21 |
| #4W7 | 1 | #4 | 1'-6" | 1 |
| #4W8 | 2 | #4 | 6'-0" | 2 |
| #4W9 | 1 | #4 | 3'-8" | 4 |
| #4W10 | 3 | #4 | 3'-0" | 4 |
| #4W11 | 1 | #4 | 8'-8" | 1 |
| #4W12 | 1 | #4 | 7'-8" | 1 |
| #4W13 | 1 | #4 | 6'-8" | 1 |
| #4W14 | 1 | #4 | 5'-8" | 1 |
| #4W15 | 1 | #4 | 2'-8" | 1 |
| #4W16 | 1 | #4 | 1'-8" | 1 |
| #5W17 | 1 | #5 | 11'-0" | 42 |
| #4W18 | 1 | #4 | 17'-0" | 30 |
| #4W19 | 1 | #4 | 2'-6" | 1 |
| #4W20 | 1 | #4 | 3'-6" | 1 |
| #4W21 | 1 | #4 | 4'-6" | 1 |
| #4W22 | 4 | #4 | 9'-6" | 1 |
| #4W23 | 1 | #4 | 4'-0" | 1 |
| #4W24 | 1 | #4 | 5'-0" | 1 |
| #4W25 | 1 | #4 | 6'-0" | 1 |
| #4W26 | 1 | #4 | 7'-0" | 1 |
| #4W27 | 1 | #4 | 2'-9" | 44 |
| #4W28 | 1 | #4 | 30'-4" | 3 |
| #4W29 | 1 | #4 | 2'-0" | 1 |
| #4W30 | 1 | #4 | 3'-0" | 1 |
| #4W31 | 1 | #4 | 1'-9" | 1 |
| #4W32 | 5 | #4 | 4'-0" | 12 |
| #4W33 | 6 | #4 | 5'-0" | 18 |
| #4W34 | 1 | #4 | 5'-6" | 4 |
| #4W35 | 1 | #4 | 17'-4" | 4 |
| #4W36 | | | NOT USED | |
| #4W37 | | | NOT USED | |
| #4W38 | | | NOT USED | |
| #4W39 | 7 | #4 | 3'-4" | 23 |
| #4W40 | 1 | #4 | 10'-0" | 1 |
| #4W41 | 1 | #4 | 9'-0" | 1 |
| #4W42 | 1 | #4 | 3'-0" | 1 |
| #4W43 | 1 | #4 | 2'-8" | 5 |
| #4W44 | 1 | #4 | 4'-8" | 3 |
| #4W45 | 1 | #4 | 3'-8" | 1 |
| #4W46 | 1 | #4 | 2'-8" | 1 |
| #4W47 | 1 | #4 | 1'-8" | 1 |
| #4W48 | 8 | #4 | 7'-8" | 1 |
| #4W49 | 9 | #4 | 19'-6" | 7 |
| #4W50 | 1 | #4 | 5'-9" | 20 |
| #4W51 | 10 | #4 | 5'-6 1/4" | 1 |
| THRU | | INC | 2 1/4" | TOTAL 15 |
| #4W65 | 10 | | 2'-6 1/4" | 1 |
| #4W66 | 1 | #4 | 17'-0" | 2 |



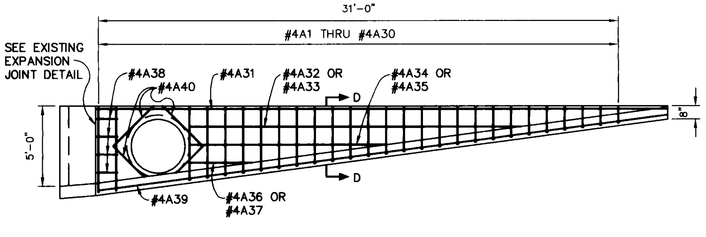

SECTION C-C
SCALE: 1/2"=1'-0"



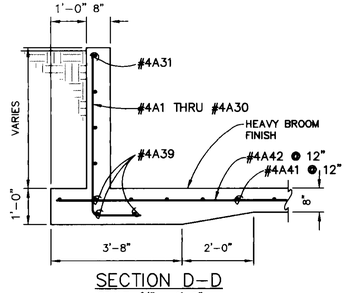

DOWNSTREAM WALL ELEVATION 2-2
SCALE: 1/4" = 1'-0"




**BASE BID**



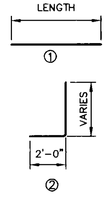

ACCESS ROAD ELEVATION
SCALE: 1/4" = 1'-0"




SECTION D-D
SCALE: 1/2" = 1'-0"

REINFORCING STEEL FOR ACCESS ROAD

| BAR | TYPE | SIZE | LENGTH | NO. REQD. |
|---|---|---|---|---|
| #4A1 | 2 | #4 | 7'-0" | 2 |
| THRU | | INC. | 1 3/4" | TOTAL 60 |
| #4A30 | 2 | #4 | 2'-9 1/4" | 2 |
| #4A31 | 1 | #4 | 30'-3" | 2 |
| #4A32 | 1 | #4 | 19'-3" | 1 |
| #4A33 | 1 | #4 | 24'-0" | 1 |
| #4A34 | 1 | #4 | 11'-0" | 1 |
| #4A35 | 1 | #4 | 16'-4" | 1 |
| #4A36 | 1 | #4 | 3'-8" | 1 |
| #4A37 | 1 | #4 | 8'-8" | 1 |
| #4A38 | 1 | #4 | 1'-4" | 4 |
| #4A39 | 1 | #4 | 30'-6" | 6 |
| #4A40 | 1 | #4 | 3'-6" | 4 |
| #4A41 | 1 | #4 | 30'-4" | 16 |
| #4A42 | 1 | #4 | 15'-0" | 31 |




RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

APPROVED FOR CONSTRUCTION
John Early 28 APRIL 1994
AMAFCA DATE

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

# AMOLE CHANNEL MODIFICATIONS SHT. 2 OF 2

Date: 4/27/94
Drawing File: SMB-2-30

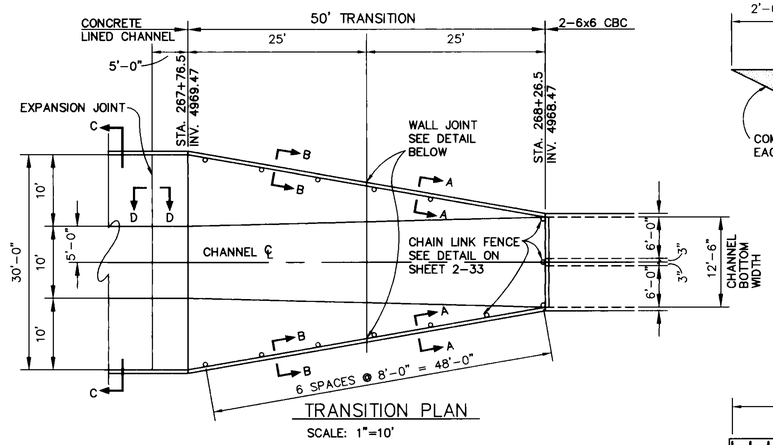
ENGR. FILE : _____

Connell Fleming West, Inc.
ENGINEERS AND PLANNERS

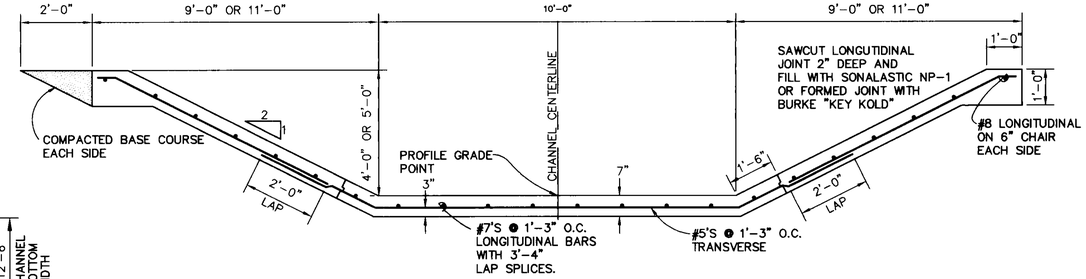
N.M. PROJECT NO. SDM-4008-(208) SHEET 2-30

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-31 |

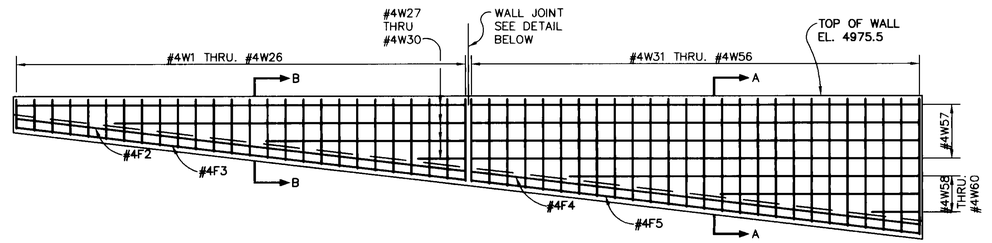
RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.



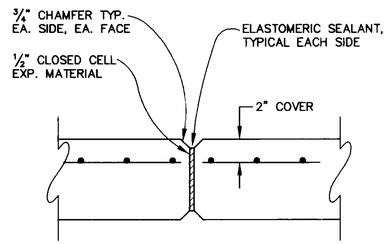

TRANSITION PLAN
SCALE: 1"=10'



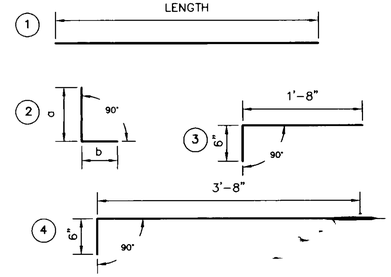

CONCRETE CHANNEL LINING SECTION C-C
SCALE: N.T.S.




TRANSITION WALL ELEVATION
SCALE: 1/4"=1'-0"




WALL JOINT DETAIL
N.T.S.

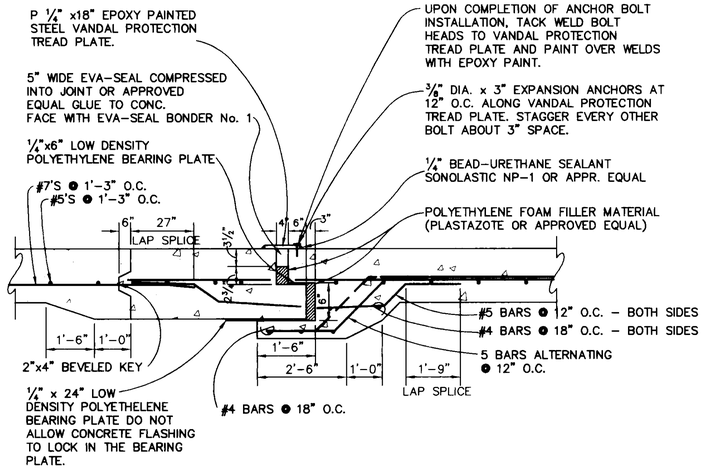



| REINFORCING STEEL FOR CONCRETE LINED CHANNEL TRANSITION | | | | | |
|---|---|---|---|---|---|
| BAR | TYPE | SIZE | LENGTH | # REQ'D | REMARKS |
| #4W1 | 2 | 4 | 2'-10" | 1 | a = 1'-7" b = 1'-3" |
| THRU | – | INC. | 1 3/8" | 26 TOTAL | |
| #4W26 | 2 | 4 | 5'-8" | 1 | a = 4'-5" b = 1'-3" |
| | | | | | |
| #4W27 | 1 | 4 | 25'-0" | 1 | |
| #4W28 | 1 | 4 | 19'-6" | 1 | |
| #4W29 | 1 | 4 | 11'-0" | 1 | |
| #4W30 | 1 | 4 | 2'-6" | 1 | |
| | | | | | |
| #4F1 | 3 | 4 | 2'-2" | 26 | |
| #4F2 | 1 | 4 | 25'-2" | 3 | |
| #4F3 | 1 | 4 | 25'-2" | 1 | |
| | | | | | |
| #4W31 | 2 | 4 | 6'-7" | 1 | a = 4'-7" b = 2'-0" |
| THRU | – | INC. | 1 3/8" | 26 TOTAL | |
| #4W56 | 2 | 4 | 9'-5" | 1 | a = 7'-5" b = 2'-0" |
| | | | | | |
| #4W57 | 1 | 4 | 25'-0" | 4 | |
| #4W58 | 1 | 4 | 19'-6" | 1 | |
| #4W59 | 1 | 4 | 11'-0" | 1 | |
| #4W60 | 1 | 4 | 2'-6" | 1 | |
| | | | | | |
| #5F1 | 4 | 5 | 4'-2" | 26 | |
| #4F4 | 1 | 4 | 25'-2" | 4 | |
| #4F5 | 1 | 4 | 25'-2" | 1 | |

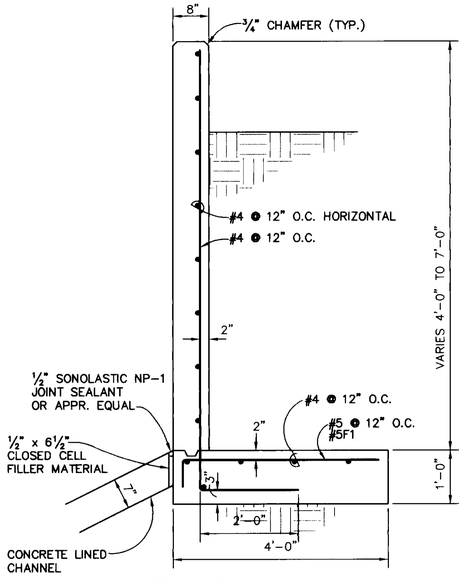
NOTE: QUANTITIES SHOWN ARE FOR ONE SIDE OF CHANNEL ONLY.

| QUANTITIES FOR 2-6x6 CBC TRANSITION | | | |
|---|---|---|---|
| ITEM NO. | DESCRIPTION | UNITS | QUANTITY |
| | | | |
| 511000 | STRUCTURAL CONCRETE CLASS A | CY | 21 |
| 540060 | REINFORCING BARS GRADE 60 | LB | 1400 |
| 511999 | CONC. CHANNEL LINING | SY | 125 |
| 607024 | CHAIN LINK FENCE – 4' | LF | 108 |
| 304000 | BASE COURSE OR SUBBASE | TONS | 926 |

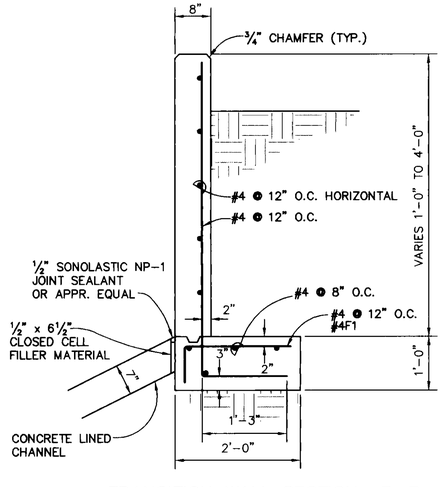
## BID ALTERNATE 1




TRANSVERSE EXPANSION JOINT SECTION D-D
N.T.S.




TRANSITION WALL SECTION A-A
SCALE: N.T.S.




TRANSITION WALL SECTION B-B
SCALE: N.T.S.

APPROVED FOR CONSTRUCTION
NMAFCA — 28 APRIL 1994 DATE

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

STA. 8+30.49 CONDERSHIRE
RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

# 2-6x6 CBC TRANSITION DETAILS AND SECTIONS SHEET 1 OF 1

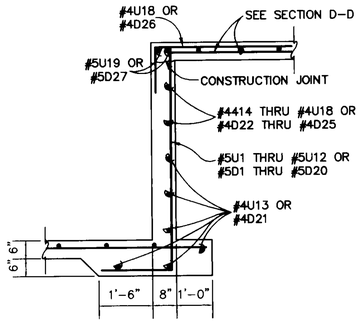
Date: 04-27-94
Drawing File: SDB-2-31.DWG

ENGR. FILE : _____

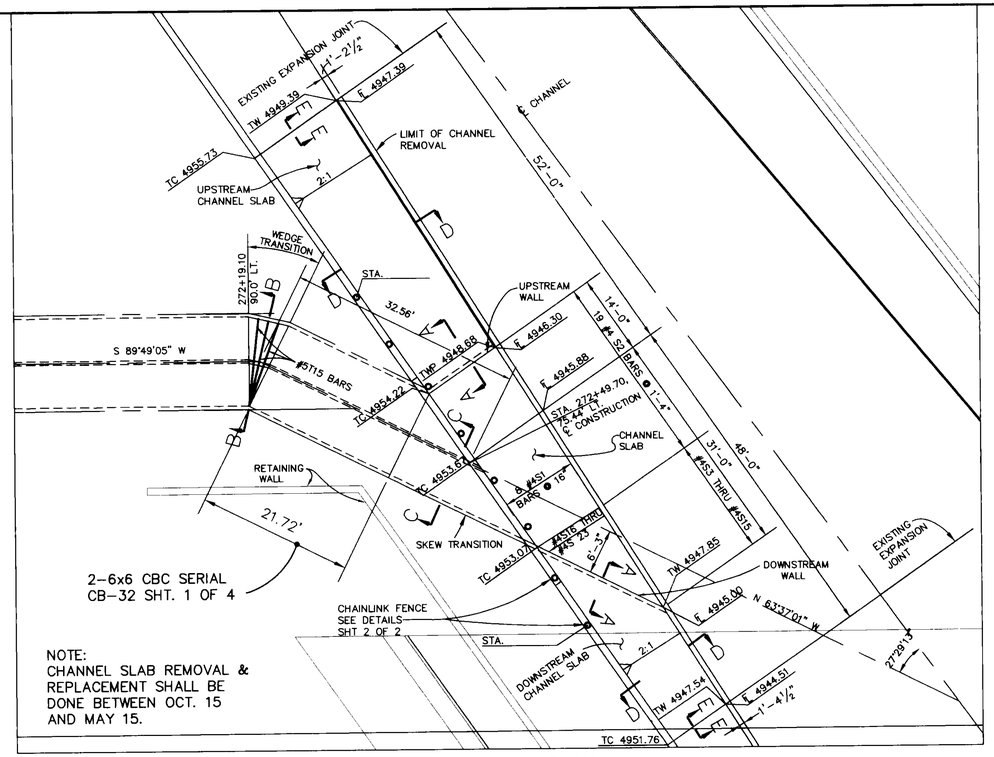
Connett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008-(208) SHEET 2-31

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-32 |



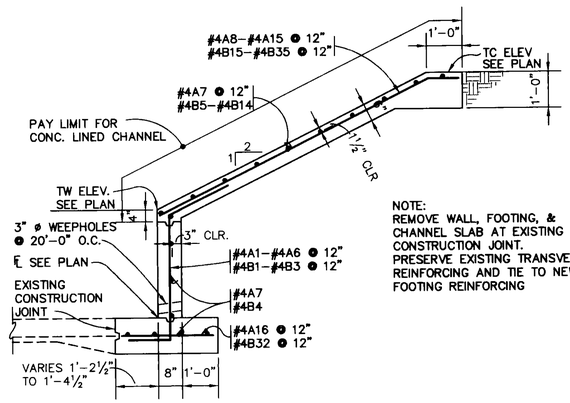

SECTION A-A
SCALE: ½" = 1'-0"




NOTE:
CHANNEL SLAB REMOVAL & REPLACEMENT SHALL BE DONE BETWEEN OCT. 15 AND MAY 15.

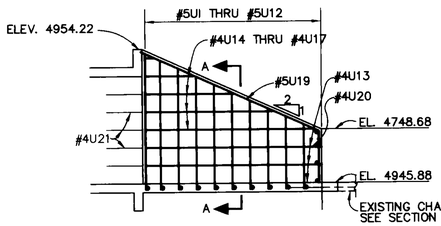
OUTLET TRANSITION PLAN
SCALE: 1"=10'

| QUANTITIES FOR OUTLET TRANSITION | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ITEM NO. | DESCRIPTION | UNITS | QUANTITIES | | | | | | |
| | | | WEDGE TRANSITION | 2-6x6 CBC | SKEW TRANSITION | UPSTREAM WALL | DOWNSTREAM WALL | CHANNEL SLAB | TOTAL |
| 511000 | STRUCTURAL CONCRETE CLASS A | CY | 5 | 21 | 18 | 4 | 6 | 7 | 61 |
| 540060 | REINFORCING BARS GRADE 60 | LB | 1100 | 3000 | 3150 | 280 | 410 | 400 | 8340 |
| 607024 | CHAIN LINK FENCE - 4' | LF | | | | | | | 56 |
| 511999 | CONC. CHANNEL LINING | SY | | | | | | | 900 |

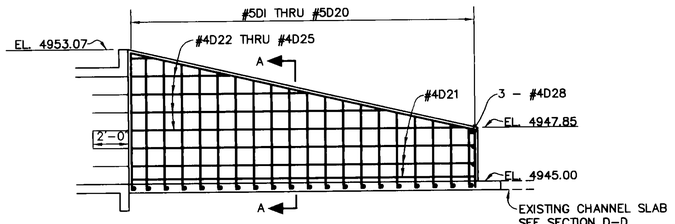



NOTE:
REMOVE WALL, FOOTING, & CHANNEL SLAB AT EXISTING CONSTRUCTION JOINT. PRESERVE EXISTING TRANSVERSE REINFORCING AND TIE TO NEW FOOTING REINFORCING

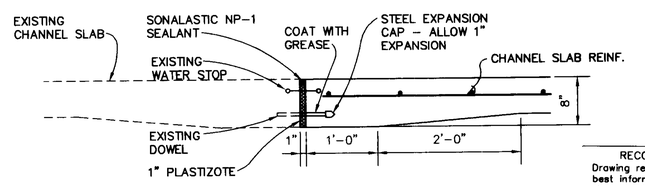
SECTION D-D
SCALE: ½" = 1'-0"




UPSTREAM WALL ELEVATION
SCALE: ¼" = 1'-0"




DOWNSTREAM WALL ELEVATION
SCALE: ¼" = 1'-0"



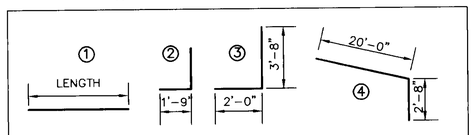

CHANNEL SLAB EXPANSION JOINT
SECTION E-E
SCALE: 1" = 1'-0"

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

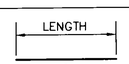
**BID ALTERNATE 1**




| REINFORCING STEEL FOR UPSTREAM WALL | | | | | |
|---|---|---|---|---|---|
| BAR | TYPE | SIZE | LENGTH | NO. REQ'D. | REMARKS |
| #5U1 | 2 | #5 | 10'-3" | 1 | |
| THRU | | INC. | 6" | 12 TOTAL | |
| #5U12 | 2 | #5 | 4'-9" | 1 | |
| #4U13 | 1 | #4 | 11'-0" | 6 | |
| #4U14 | 1 | #4 | 9'-0" | 1 | |
| THRU | | INC. | 2'-0" | 4 TOTAL | |
| #4U17 | 1 | #4 | 3'-0" | 1 | |
| #4U18 | 3 | #4 | 5'-8" | 12 | |
| #5U19 | 4 | #5 | 14'-10" | 2 | |
| #4U20 | 3 | #4 | 5'-8" | 3 | |
| #4U21 | 5 | #4 | 4'-0" | 7 | |




| REINFORCING STEEL FOR DOWNSTREAM WALL | | | | | |
|---|---|---|---|---|---|
| BAR | TYPE | SIZE | LENGTH | NO. REQ'D. | REMARKS |
| #5D1 | 2 | #5 | 5'-2" | 1 | |
| THRU | | INC. | 2¾" | 20 TOTAL | |
| #5D20 | 2 | #5 | 9'-6" | 1 | |
| #4D21 | 1 | #4 | 19'-8" | 6 | |
| #4D22 | 1 | #4 | 17'-0" | 1 | |
| THRU | | INC. | 4'-2" | 4 TOTAL | |
| #4D25 | 1 | #4 | 4'-6" | 1 | |
| #4D26 | 3 | #4 | 5'-8" | 20 | |
| #4D27 | 4 | #4 | 22'-8" | 2 | |
| #4D28 | 3 | #4 | 5'-8" | 3 | |




| REINFORCING STEEL FOR CHANNEL SLAB | | | | | |
|---|---|---|---|---|---|
| BAR | TYPE | SIZE | LENGTH | NO. REQ'D. | REMARKS |
| #4S1 | 1 | #4 | 24'-10" | 8 | |
| #4S2 | 1 | #4 | 10'-0" | 19 | |
| #4S3 | 1 | #4 | 1'-0" | 1 | |
| THRU | | INC | 8¼" | 13 TOTAL | |
| #4S15 | 1 | #4 | 10'-0" | 1 | |
| #4S16 | 1 | #4 | 1'-0" | 1 | |
| THRU | | INC. | 2'-0" | 8 TOTAL | |
| #4S23 | 1 | #4 | 17'-0" | 1 | |

APPROVED FOR CONSTRUCTION
NMDOT 28 APRIL 1994
DATE

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

STA. 8+30.49 CONDERSHIRE
RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

**OUTLET TRANSITION DETAILS SHT 1 OF 2**

Date: 04/27/94
Drawing File: SDM-2-32.DWG

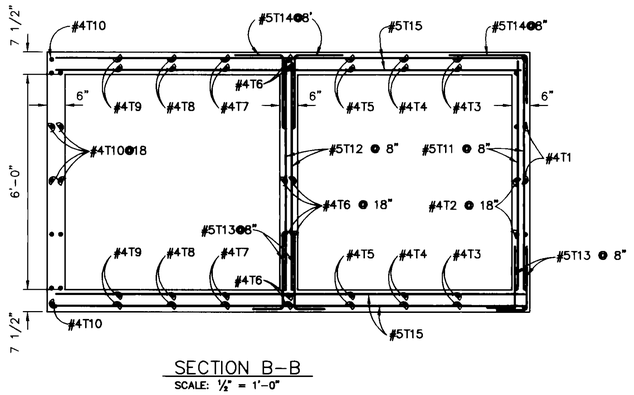
ENGR. FILE :

Connell Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008-(208) SHEET 2-32

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-33 |

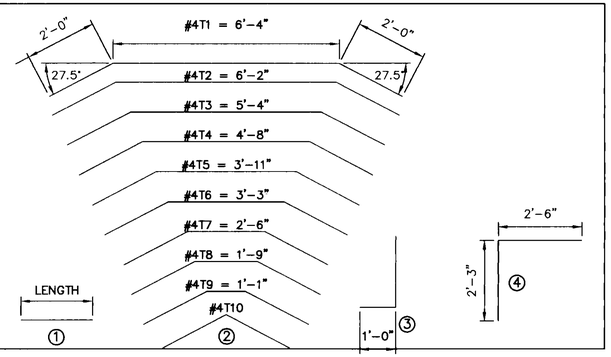
RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.



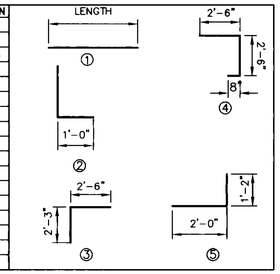

SECTION B-B
SCALE: 1/2" = 1'-0"

## WEDGE TRANSITION

| REINFORCING STEEL FOR WEDGE TRANSITION | | | | |
|---|---|---|---|---|
| BAR | TYPE | SIZE | LENGTH | NO. REQ'D. |
| #4T1 | 2 | #4 | 10'-4" | 7 |
| #4T2 | 2 | #4 | 10'-2" | 5 |
| #4T3 | 2 | #4 | 9'-4" | 4 |
| #4T4 | 2 | #4 | 8'-8" | 4 |
| #4T5 | 2 | #4 | 7'-11" | 4 |
| #4T6 | 2 | #4 | 7'-3" | 12 |
| #4T7 | 2 | #4 | 6'-6" | 4 |
| #4T8 | 2 | #4 | 5'-9" | 4 |
| #4T9 | 2 | #4 | 5'-1" | 4 |
| #4T10 | 2 | #4 | 4'-0" | 14 |
| #5T11 | 1 | #5 | 6'-4" | 32 |
| #5T12 | 1 | #5 | 6'-4" | 22 |
| #5T13 | 3 | #5 | 3'-3" | 54 |
| #5T14 | 4 | #5 | 4'-9" | 22 |
| #5T15 | 1 | #5 | 12'-9" | 12 |



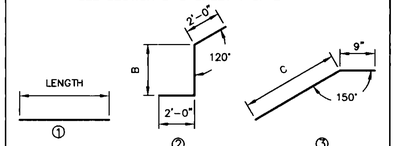

| REINFORCING STEEL FOR SKEW TRANSITION | | | | |
|---|---|---|---|---|
| BAR | TYPE | SIZE | LENGTH | NO. REQD. |
| #5E1 | 1 | #5 | 12'-6" | 4 |
| THRU | | INC. | 4½" | TOTAL 124 |
| #5E31 | 1 | #5 | 1'-3" | 4 |
| #4E32 | 1 | #4 | 4'-9" | 4 |
| THRU | | INC. | 2'-8" | TOTAL 28 |
| #4E38 | 1 | #4 | 20'-9" | 4 |
| #4E39 | 1 | #4 | 25'-0" | 12 |
| #4E40 | 1 | #4 | 12'-9" | 8 |
| #5E41 | 1 | #5 | 6'-4" | 96 |
| #5E42 | 2 | #5 | 3'-3" | 96 |
| #5E43 | 3 | #5 | 4'-9" | 65 |
| #4E44 | 1 | #4 | 28'-0" | 6 |
| #4E45 | 4 | #4 | 5'-8" | 29 |
| #6E46 | 1 | #6 | 28'-8" | 4 |
| #4E47 | 5 | #4 | 3'-2" | 30 |
| #4E48 | 1 | #4 | 4'-0" | 29 |



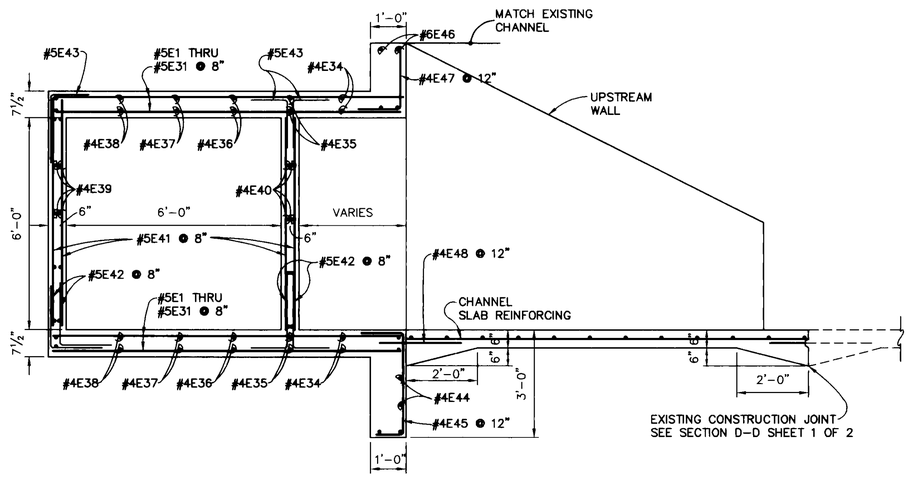

| 607024 4' CHAIN LINK FENCE | | |
|---|---|---|
| STA. TO STA. | LOCATION | LF |
| 267+76.5<br>268+26.5 | LT. & RT. OF ℄ CHANNEL | 108 |
| — | WEST TOP AMOLE CHANNEL | 56 |

| REINFORCING STEEL FOR CHANNEL SLAB | | | | | |
|---|---|---|---|---|---|
| BAR | TYPE | SIZE | LENGTH | NO. REQ'D. | REMARKS |
| #4A1 | 2 | #4 | 6'-9" | 6 | B=2'-9" |
| #4A2 | 2 | #4 | 6'-10" | 6 | B=2'-10" |
| #4A3 | 2 | #4 | 6'-11" | 7 | B=2'-11" |
| #4A4 | 2 | #4 | 7'-0" | 7 | B=3'-0" |
| #4A5 | 2 | #4 | 7'-1" | 6 | B=3'-1" |
| #4A6 | 2 | #4 | 7'-2" | 6 | B=3'-2" |
| #4A7 | 1 | #4 | 37'-5" | 23 | |
| #4A8 | 3 | #4 | 13'-0" | 5 | C=12'-3" |
| #4A9 | 3 | #4 | 13'-3" | 5 | C=12'-6" |
| #4A10 | 3 | #4 | 13'-6" | 5 | C=12'-9" |
| #4A11 | 3 | #4 | 13'-9" | 4 | C=13'-0" |
| #4A12 | 3 | #4 | 14'-0" | 4 | C=13'-3" |
| #4A13 | 3 | #4 | 14'-3" | 5 | C=13'-6" |
| #4A14 | 3 | #4 | 14'-6" | 5 | C=13'-9" |
| #4A15 | 3 | #4 | 14'-9" | 5 | C=14'-0" |
| #4A16 | 1 | #4 | 2'-6" | 38 | |
| | | | | | |
| | | | | | |
| #4B1 | 2 | #4 | 7'-7" | 6 | B=3'-7" |
| #4B2 | 2 | #4 | 7'-8" | 6 | B=3'-8" |
| #4B3 | 2 | #4 | 7'-9" | 5 | B=3'-9" |
| #4B4 | 1 | #4 | 16'-5" | 7 | |
| #4B5 | 1 | #4 | 17'-8" | 1 | |
| THRU | INCR. | | 1'-8" TOTAL | 10 | |
| #4B14 | 1 | #4 | 32'-6" | 1 | |
| #4B15 | 3 | #4 | 10'-0" | 4 | B=9'-3" |
| #4B16 | 3 | #4 | 10'-3" | 4 | B=9'-6" |
| #4B17 | 3 | #4 | 10'-6" | 4 | B=9'-9" |
| #4B18 | 3 | #4 | 10'-9" | 5 | B=10'-0" |
| #4B19 | 3 | #4 | 10'-1" | | B=9'-4" |
| THRU | INCR OF B=0"-8" TOTAL | | | 13 | |
| #4B31 | 3 | #4 | 2'-1" | | B=1'-4" |
| #4B32 | 1 | #4 | 2'-4" | 18 | |

NOTE: #4A BARS ARE IN THE UPSTREAM CHANNEL
#4B BARS ARE IN THE DOWNSTREAM CHANNEL
SEE SECTION D-D SHEET 1 OF 2

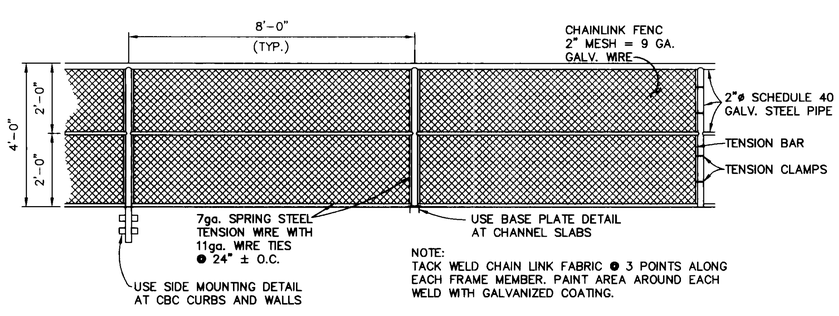



**BID ALTERNATE 1**

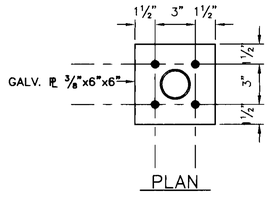



SECTION C-C
SCALE: 1/2" = 1'-0"

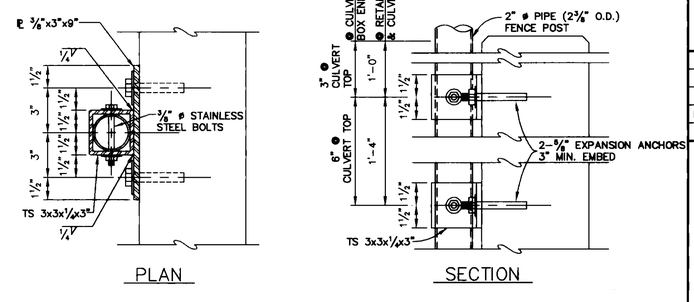
## SKEW TRANSITION




## CHAIN LINK FENCE DETAILS




## BASE PLATE DETAIL




## SIDE MOUNTING DETAIL

APPROVED FOR CONSTRUCTION
John Kelly 28 April 1994
AMAFCA DATE

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

STA. 8+30.49 CONDERSHIRE
RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

**OUTLET TRANSITION DETAILS**
**SHEET 2 OF 2**

Date: 04/27/94
Drawing File: SDB-2-33

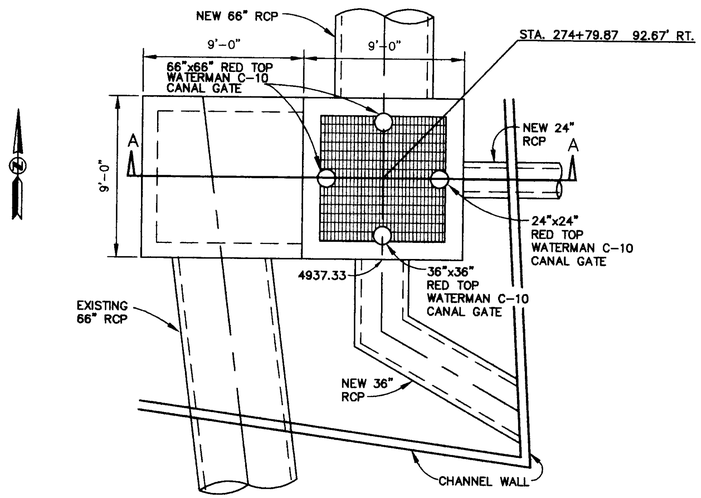
ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

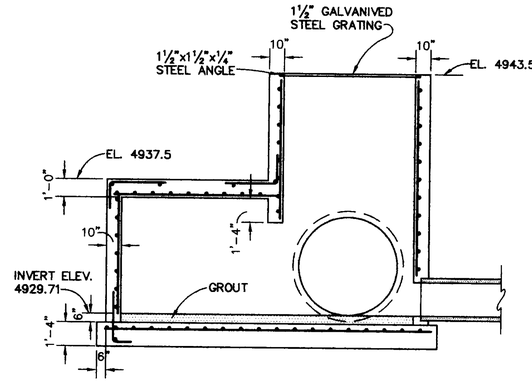
N.M. PROJECT NO. SDM-4008-(208) SHEET 2-33

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-34 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

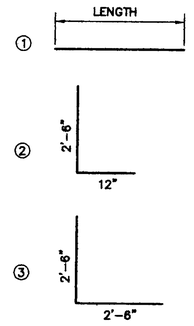



JUNCTION / GATEBOX PLAN
SCALE: ¼" = 1'-0"

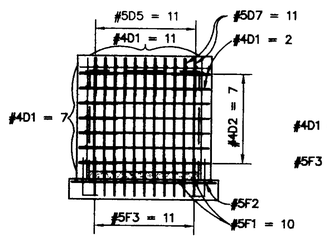



SECTION A-A
SCALE: ¼" = 1'-0"

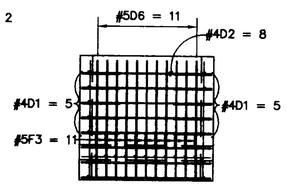
| REINFORCING STEEL FOR JUNCTION / GATE BOX | | | | |
|---|---|---|---|---|
| BAR | TYPE | SIZE | LENGTH | # REQ'D |
| | | | | |
| #5F1 | 1 | 5 | 18'-8" | 10 |
| #5F2 | 1 | 5 | 9'-8" | 19 |
| #5F3 | 2 | 5 | 3'-8" | 61 |
| | | | | |
| #4D1 | 3 | 4 | 5'-0" | 51 |
| #5D1 | 1 | 5 | 13'-10" | 14 |
| #5D2 | 1 | 5 | 10'-10" | 5 |
| #5D3 | 1 | 5 | 9'-6" | 11 |
| #5D4 | 1 | 5 | 8'-8" | 13 |
| #5D5 | 1 | 5 | 8'-0" | 26 |
| #5D6 | 1 | 5 | 7'-10" | 11 |
| #4D2 | 1 | 4 | 8'-8" | 34 |
| #5D7 | 1 | 5 | 6'-10" | 10 |
| #4D3 | 1 | 4 | 9'-0" | 6 |
| #4D4 | 1 | 4 | 17'-8" | 2 |
| #5D8 | 1 | 5 | 7'-0" | 6 |
| #4D5 | 1 | 4 | 8'-10" | 6 |
| | | | | |
| #4D6 | 1 | 4 | 3'-8" | 2 |
| #4D7 | 1 | 4 | 5'-2" | 4 |
| #4D8 | 1 | 4 | 3'-4" | 2 |
| #4D9 | 1 | 4 | 6'-0" | 2 |
| | | | | |
| | | | | |



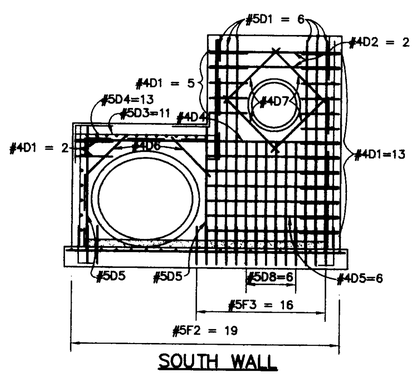

| QUANTITIES FOR JUNCTION/GATE BOX | | | |
|---|---|---|---|
| ITEM NO. | DESCRIPTION | UNITS | QUANTITY |
| | | | |
| 511000 | STRUCTURAL CONCRETE CLASS A | CY | 30 |
| 541200 | STRUCTURAL STEEL FOR MISC. | LB | 680 |
| 540060 | REINFORCING BARS GRADE 60 | LB | 2020 |
| | STRUCTURES AASHTO M 183 | | |
| 619524 | 24"x24" RED TOP WATERMAN C-10 CANAL GATE | EA | 1 |
| 619536 | 36"x36" RED TOP WATERMAN C-10 CANAL GATE | EA | 1 |
| 619566 | 66"x66" RED TOP WATERMAN C-10 CANAL GATE | EA | 2 |
| | | | |



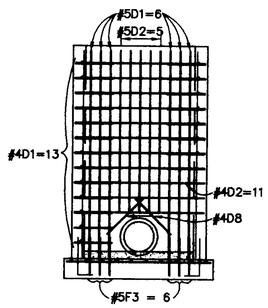

WEST WALL



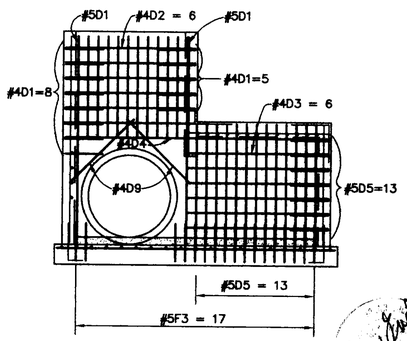

MIDDLE WALL




SOUTH WALL




EAST WALL




NORTH WALL

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

STA. 274+79.87 92.67' RT.
RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

SPECIAL DESIGN
JUNCTION / GATE BOX DETAILS
SHEET 1 OF 1

17 April '97

Time: 15:4:27
Date: 4/17/1997 LJS
Drawing File: L:\PROJECTS\20164\STD\SBB-2-34

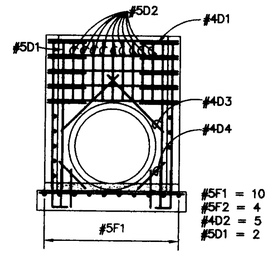
ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

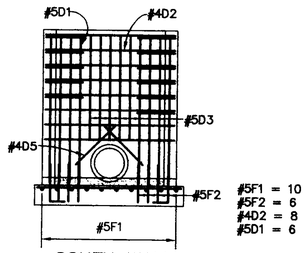
N.M. PROJECT NO. SDM-4008-(208) SHEET 2-34

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-35 |

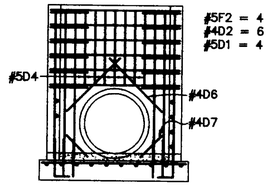
RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.



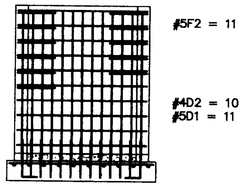

WEST WALL



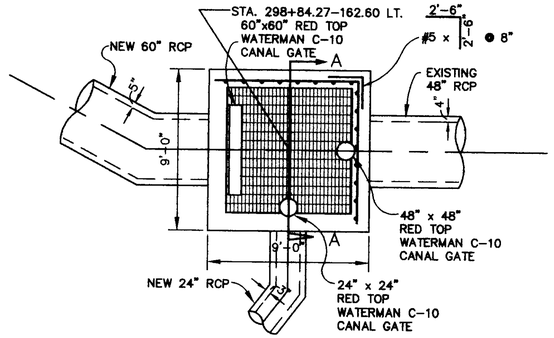

SOUTH WALL




EAST WALL



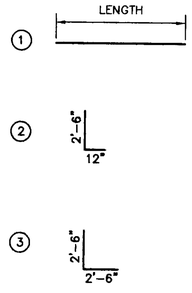

NORTH WALL

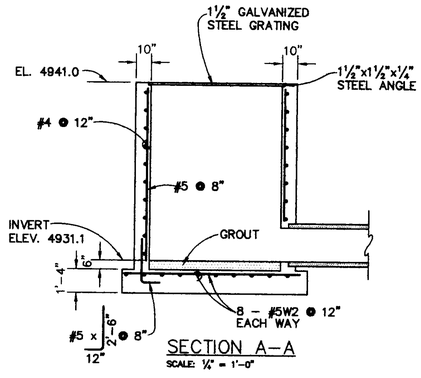



JUNCTION/GATE BOX PLAN
SCALE: ½" = 1'-0"

| QUANTITIES FOR JUNCTION/GATE BOX | | | |
|---|---|---|---|
| ITEM NO. | DESCRIPTION | UNITS | QUANTITY |
| | | | |
| 511000 | STRUCTURAL CONCRETE CLASS A | CY | 14 |
| 540060 | REINFORCING BARS GRADE 60 | LB | 910 |
| 541200 | STRUCTURAL STEEL FOR MISC. | LB | 680 |
| | STRUCTURES AASHTO M 183 | | |
| 619524 | 24"x24" RED TOP WATERMAN C-10 CANAL GATE | EA | 1 |
| 619548 | 48"x48" RED TOP WATERMAN C-10 CANAL GATE | EA | 1 |
| 619560 | 60"x60" RED TOP WATERMAN C-10 CANAL GATE | EA | 1 |
| | | | |

| REINFORCING STEEL FOR JUNCTION / GATE BOX | | | | |
|---|---|---|---|---|
| BAR | TYPE | SIZE | LENGTH | # REQ'D |
| | | | | |
| #5F1 | 1 | 5 | 9'-8" | 20 |
| #5F2 | 2 | 5 | 3'-6" | 25 |
| | | | | |
| #4D1 | 3 | 4 | 5'-0" | 22 |
| #4D2 | 1 | 4 | 8'-8" | 29 |
| | | | | |
| #5D1 | 1 | 5 | 9'-10" | 23 |
| #5D2 | 1 | 5 | 4'-0" | 9 |
| #5D3 | 1 | 5 | 7'-0" | 5 |
| #5D4 | 1 | 5 | 5'-0" | 7 |
| | | | | |
| #4D3 | 1 | 4 | 5'-4" | 2 |
| #4D4 | 1 | 4 | 2'-6" | 2 |
| #4D5 | 1 | 4 | 3'-8" | 2 |
| #4D6 | 1 | 4 | 5'-0" | 2 |
| #4D7 | 1 | 4 | 2'-0" | 2 |
| | | | | |




SECTION A-A
SCALE: ½" = 1'-0"

BASE BID

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT
STA. 298+84.27-162.60' LT.
RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

SPECIAL DESIGN
JUNCTION/GATE BOX DETAILS
SHEET 1 OF 1

Time: 15:9:17
Date: 4/7/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\SRB-2-35

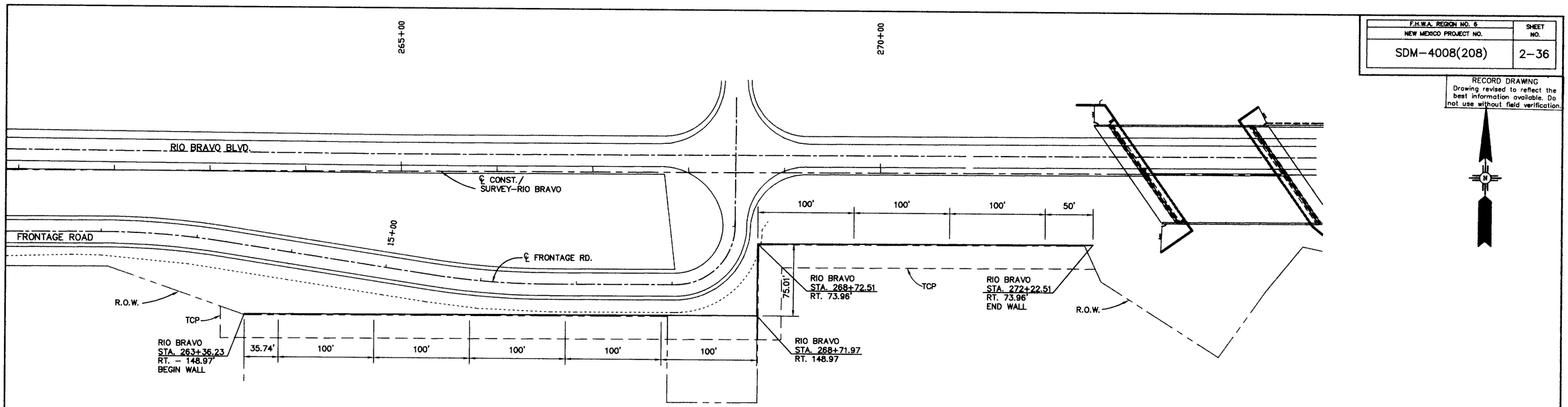
ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008-(208) SHEET 2-35

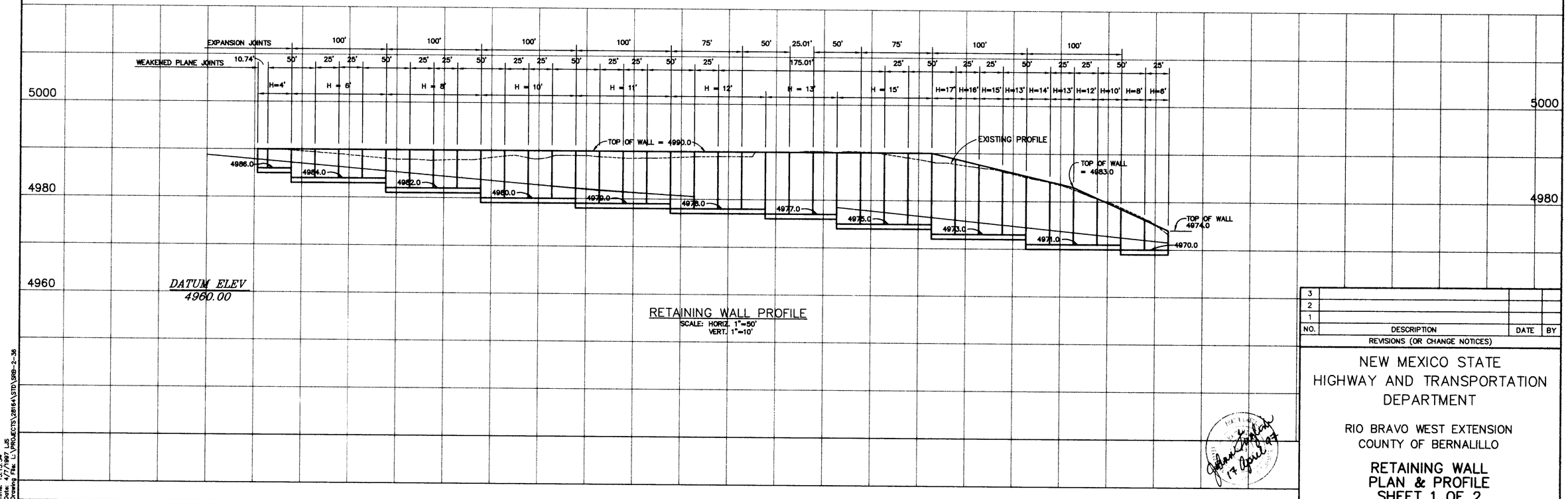
| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-36 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.




RETAINING WALL PLAN
SCALE: 1"=50'

**BASE BID**




RETAINING WALL PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=10'

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

# RETAINING WALL PLAN & PROFILE SHEET 1 OF 2

Time: 15:13:34
Date: 4/7/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\SRB-2-36

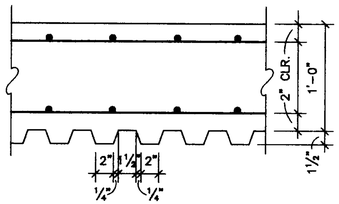
ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

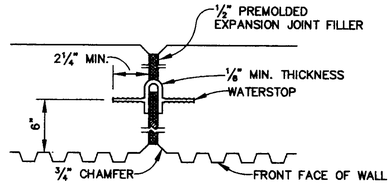
N.M. PROJECT NO. SDM-4008-(208) SHEET 2-36

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-37 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.




SURFACE TEXTURE DETAIL
N.T.S.
SURFACE TEXTURE IS INCIDENTAL TO RETAINING WALL CONCRETE QUANTITIES




EXPANSION JOINT
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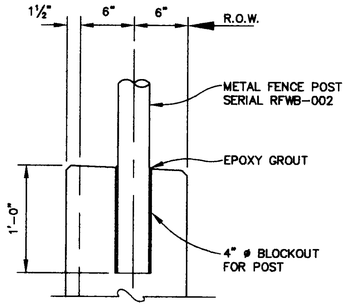
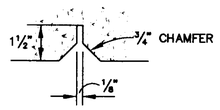
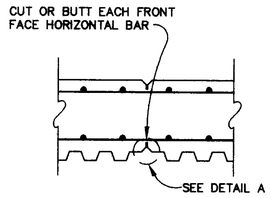
SEE RETAINING WALL PROFILE FOR LOCATION



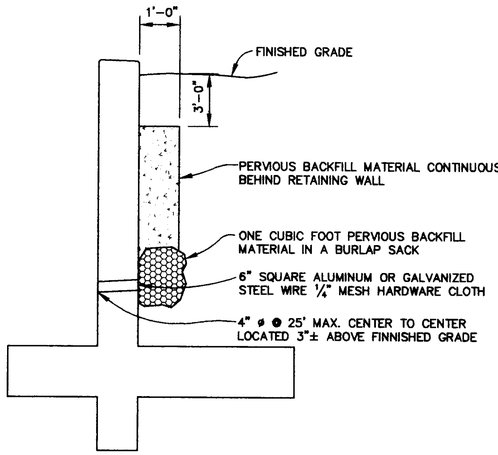

METAL FENCE POST DETAIL
N.T.S.



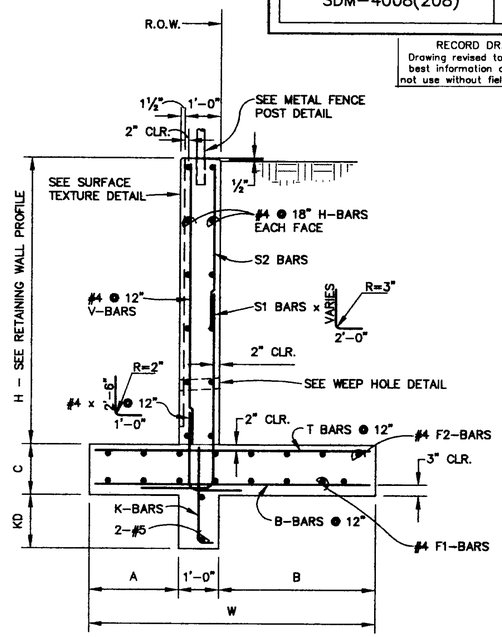

DETAIL A




WEAKENED PLANE JOINT
N.T.S.
SEE RETAINING WALL PROFILE FOR LOCATION




WEEP HOLE DETAIL
N.T.S.




RETAINING WALL SECTION
N.T.S.

| QUANTITIES FOR RETAINING WALLS | | | |
|---|---|---|---|
| ITEM NO. | DESCRIPTION | UNITS | QUANTITY |
| | | | |
| 511000 | STRUCTURAL CONCRETE CLASS A | CY. | 790 |
| 540060 | REINFORCING BARS GRADE 60 | LB. | 107,000 |

NOTE: EXCAVATION, BACKFILL, WEEP HOLES, WATERSTOP AND SURFACE TEXTURE ARE INCIDENTAL TO RETAINING WALL CONSTRUCTION

RETAINING WALL SCHEDULE

| DIMENSIONS | | | | | | REINFORCING STEEL | | | | | | | | | | | | | | | | | | | QUANTITIES | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | S1 BARS | | | S2 BARS | | | H BARS | V BARS | B BARS | | | F1 BARS | T BARS | | | F2 BARS | K BARS | | | CONC. | REBAR |
| H | W | A | B | C | K.D. | SIZE | SPACING | LENGTH | SIZE | SPACING | LENGTH | NUMBER | LENGTH | SIZE | SPACING | LENGTH | NUMBER | SIZE | SPACING | LENGTH | NUMBER | SIZE | SPACING | LENGTH | CY/LF | LB/LF |
| 4' | 4'-0" | 1'-6" | 1'-6" | 12" | | #5 | 12" | 6'-6" | | | | 6 | 3'-8" | #4 | 12" | 3'-0" | 4 | #5 | 12" | 3'-0" | 4 | | | | 0.30 | 28.2 |
| 6' | 5'-0" | 1'-6" | 2'-6" | 12" | | #5 | 12" | 8'-6" | | | | 10 | 5'-8" | #4 | 12" | 4'-0" | 5 | #5 | 12" | 4'-0" | 5 | | | | 0.41 | 37.3 |
| 8' | 5'-6" | 1'-6" | 3'-0" | 12" | 8" | #5 | 12" | 6'-9" | #5 | 12" | 6'-0" | 12 | 7'-8" | #4 | 12" | 5'-0" | 6 | #5 | 12" | 5'-0" | 6 | #4 | 12" | 2'-2" | 0.52 | 48.7 |
| 10' | 6'-6" | 1'-6" | 4'-0" | 14" | 8" | #6 | 12" | 8'-0" | #5 | 12" | 7'-0" | 14 | 9'-8" | #5 | 12" | 6'-0" | 7 | #6 | 12" | 6'-0" | 7 | #4 | 12" | 2'-2" | 0.68 | 65.7 |
| 11' | 8'-6" | 2'-6" | 5'-0" | 14" | 12" | #6 | 8" | 8'-6" | #5 | 8" | 7'-6" | 16 | 10'-8" | #5 | 12" | 7'-0" | 8 | #6 | 8" | 8'-0" | 9 | #5 | 12" | 2'-6" | 0.81 | 91.4 |
| 12' | 9'-0" | 2'-6" | 5'-6" | 14" | 12" | #6 | 8" | 9'-0" | #5 | 8" | 8'-0" | 18 | 11'-8" | #5 | 12" | 7'-6" | 8 | #6 | 8" | 8'-6" | 13 | #5 | 12" | 2'-6" | 0.87 | 97.7 |
| 13' | 10'-0" | 3'-0" | 6'-0" | 16" | 16" | #6 | 6" | 9'-6" | #6 | 6" | 9'-0" | 18 | 12'-8" | #6 | 12" | 8'-0" | 9 | #6 | 6" | 9'-6" | 11 | #5 | 12" | 3'-0" | 1.02 | 136.2 |
| 14' | 10'-0" | 3'-0" | 6'-0" | 16" | 16" | #6 | 6" | 10'-0" | #6 | 6" | 9'-6" | 20 | 13'-8" | #6 | 12" | 8'-0" | 9 | #6 | 6" | 9'-6" | 11 | #5 | 12" | 3'-0" | 1.06 | 141.2 |
| 15' | 12'-0" | 3'-6" | 7'-6" | 18" | 16" | #7 | 6" | 10'-9" | #6 | 6" | 10'-0" | 22 | 14'-8" | #6 | 12" | 9'-6" | 9 | #7 | 6" | 11'-6" | 13 | #5 | 12" | 3'-2" | 1.27 | 180.9 |
| 16' | 12'-0" | 3'-6" | 7'-6" | 18" | 16" | #7 | 6" | 11'-3" | #6 | 6" | 10'-3" | 22 | 15'-8" | #6 | 12" | 9'-6" | 9 | #7 | 6" | 11'-6" | 13 | #5 | 12" | 3'-2" | 1.31 | 184.5 |
| 17' | 12'-0" | 3'-6" | 7'-6" | 18" | 16" | #7 | 6" | 11'-9" | #6 | 6" | 10'-6" | 24 | 16'-8" | #6 | 12" | 9'-6" | 9 | #7 | 6" | 11'-6" | 13 | #5 | 12" | 3'-2" | 1.35 | 189.2 |

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

**BASE BID**

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

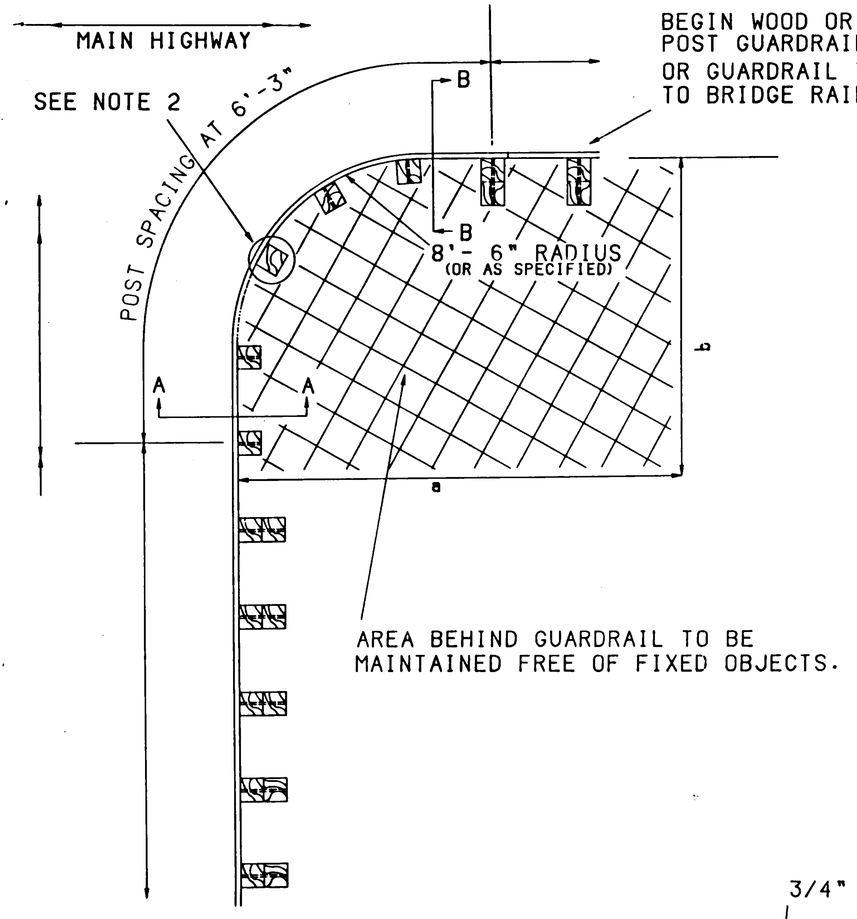
RETAINING WALL DETAILS
SHT. 2 OF 2

Time: 9:50:47
Date: 4/18/97 RKA
Drawing File: L:\PROJECTS\28164\STD\SRB-2-37

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

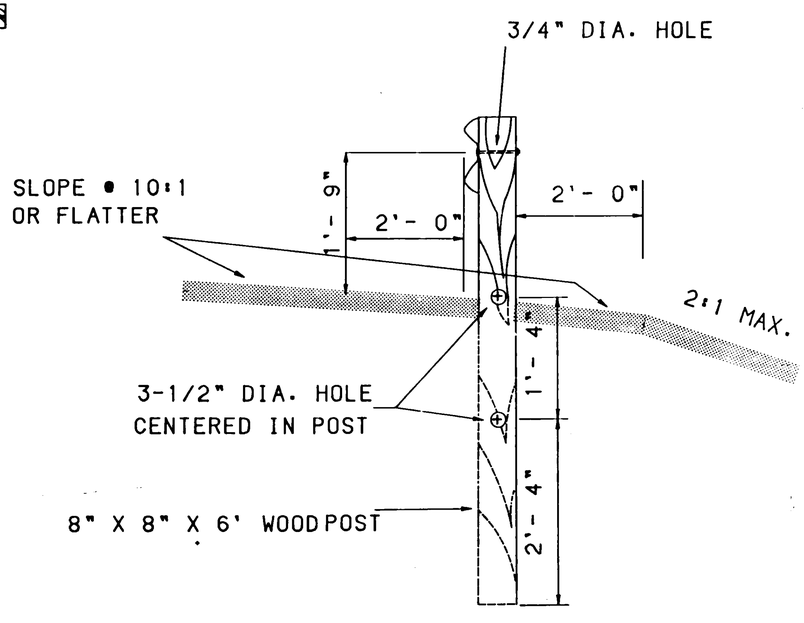
N.M. PROJECT NO. SDM-4008-(208) SHEET 2-37



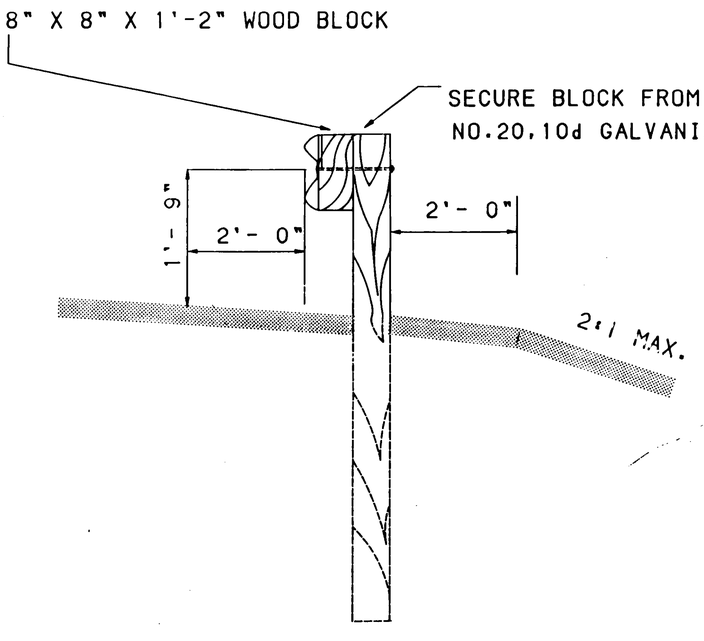

| RADIUS | NO. OF POSTS | REQUIRED AREA FREE OF FIXED OBJECTS |
|---|---|---|
| | | a X b |
| 8'- 6" | 4 | 25' X 15' |
| 17' | 5 | 30' X 15' |
| 25'- 6" | 7 | 40' X 20' |
| 35' | 10 | 50' X 20' |

## GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED.
2. THE ONLY PLACE WHERE THE RAIL IS NOT BOLTED TO THE POST IS AT THE CENTER OF THE NOSE AS SHOWN.
3. SEE SERIALS M-21-77C AND M-21-62 FOR W-BEAM GUARDRAIL.




SECTION A-A




SECTION B-B

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 6 | | | |
| 5 | | | |
| 4 | | | |
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

FIGURE 1

CURVED GUARDRAIL INSTALLATION

LAYOUT BY
DRAWN BY F.L.F.
CHECKED BY D.J.M.
APPROVAL RECOMMENDED ENGINEER 3/15/07 DATE
APPROVED DIRECTOR OF DESIGN 3-16-07 DATE

SCALE 1:1

F.H.W.A. REGION NO. 6 | SHEET NO.
NEW MEXICO PROJECT NO. SDM-4008(208) | 2-40

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

CADD

DESIGNED BY
DRAWN BY
CHECKED BY

FLOYDP-SERIAL-SERIAL-TRAFFIC$3

N.M. PROJECT NO. SDM-4008(208) SHEET 2-40

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-41 |

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

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Time: 15:8:21
Date: 4/8/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\SRB-2-45

ENGR. FILE :

Community Planning West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-41

| F.H.W.A. REGION NO. 6 NEW MEXICO PROJECT NO. | SHEET NO. |
|---|---|
| SDM-4008(208) | 2-42 |

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| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

Time: 15:11:22
Date: 4/8/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\SRB-2-46

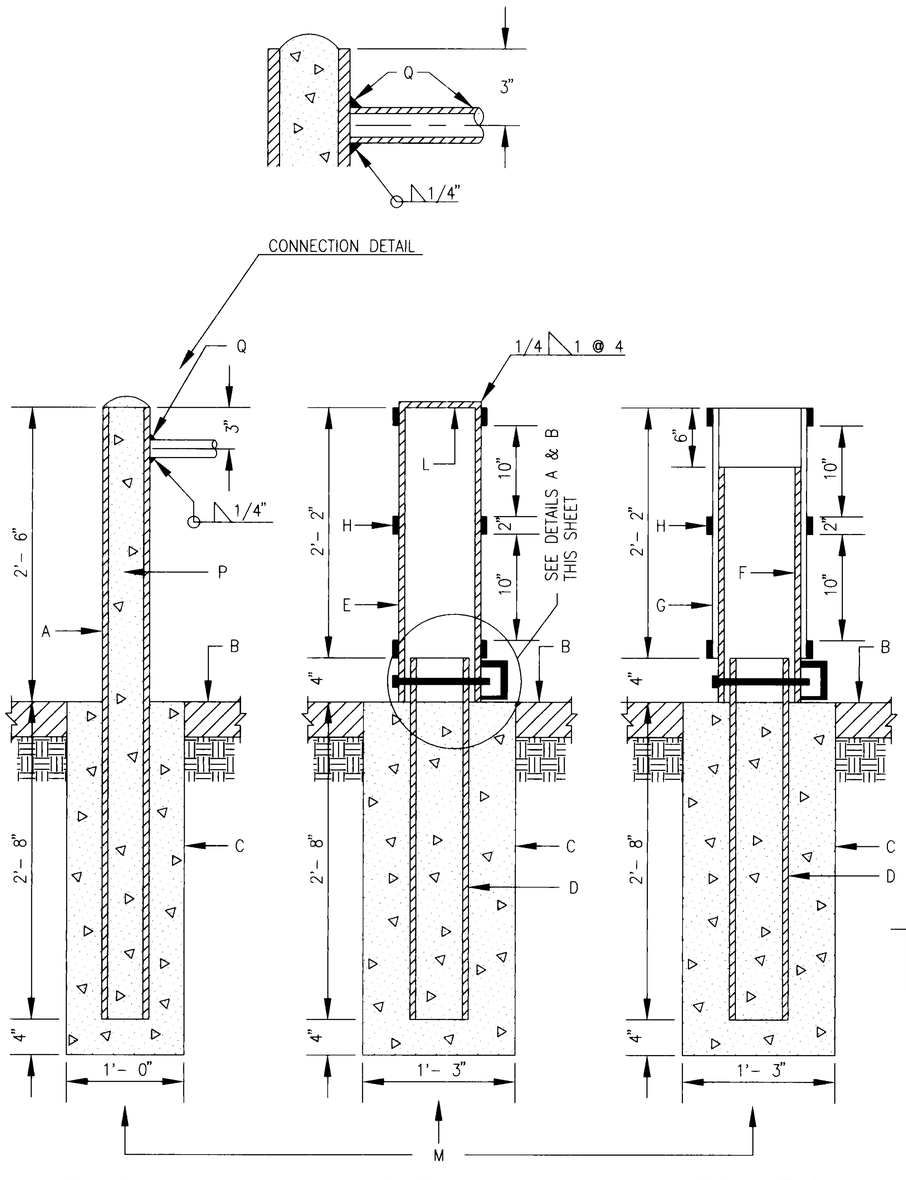
ENGR. FILE :

Consult Planning West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-42

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-46 |

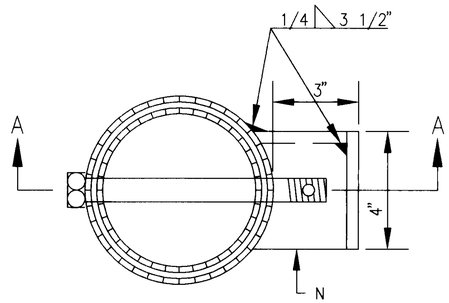
RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification



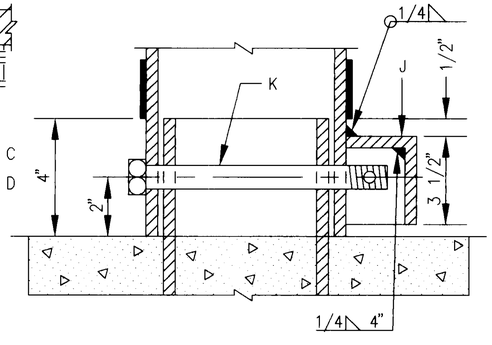

STATIONARY POST

REMOVABLE POST

REMOVABLE POST WITH RUBBER SLEEVE




DETAIL A
PLAN




DETAIL B
SECTION A-A

## GENERAL NOTES:

1. FOR SLEEVE, USE GATES NO. 37 W WATER HOSE, DISCHARGE HOSE OR EQUIVALENT. I.D. 6.625" O.D. 7.29", 6 PLY WITH BLACK NEOPRENE COVER.
2. WELDS ARE TO BE GROUND SMOOTH.
3. EXPOSED STEEL AND SLEEVE TO BE PAINTED WITH AN OIL BASE ALKYD PRIMER AND AN OIL BASE ALKYD ENAMEL TOP COAT. COLOR TO BE BRIGHT YELLOW.

## CONSTRUCTION NOTES:

A. 4" NOMINAL DIA. SCHEDULE 40 GALV. STEEL PIPE, 5'- 2" TO BE FILLED W/CONC. PAINT PIPE BRIGHT YELLOW ABOVE FINISHED GRADE.

B. PAVEMENT OR FINISHED GRADE.

C. CONC. COLLAR, 3000 PSI AT 28 DAYS, W/SMOOTH OR BROOM FINISH WHERE PAVEMENT IS ADJACENT.

D. 5" NOMINAL DIA. SCHEDULE 40 GALV. STEEL PIPE, 3'- 0" TO BE FILLED W/CONC. TO LEVEL SHOWN.

E. 6" NOMINAL DIA. SCHEDULE 40 GALV. STEEL PIPE, 2'- 8" PAINT PIPE BRIGHT YELLOW (REMOVABLE).

F. 6" NOMINAL DIA. SCHEDUAL 40 GALV. STEEL PIPE, 2'- 0" (REMOVABLE).

G. SLEEVE, 2'- 2" PAINT BRIGHT YELLOW, SEE NOTE NO. 1 THIS SHEET.

H. 2" WIDE REFLECTIVE TAPE, AS APPROVED BY ENGINEER, LOCATE AROUND PIPE AS SHOWN.

J. 1/4" THICK STEEL SAFETY GUARD BOX. OPEN ON ONE SIDE & BOTTOM. WELD ALL SEAMS.

K. 3/4" X 8" GALV. HEX. BOLT W/A 3/8" DIA. HOLE FOR PADLOCK. (PADLOCK FURNISHED BY CITY).

L. 1/4" X 6 5/8" DIA. GALV. STEEL PLATE COVER, WELDED TO PIPE.

M. PLACEMENT OF POSTS SHOULD BE WELL AWAY FROM TRAFFIC ON MAJOR ROADWAYS & PERFERABLY AT THE R.O.W. LINE. TRAFFIC ENGINEERING SHOULD BE CONSULTED ON LOCATION WHEN NEAR TRAFFIC.

N. ALIGN WITH TRAFFIC FLOW IN EASEMENTS OR BIKEPATH TO AVOID TRIPPING HAZARDS WITH BOX.

P. PIPES ARE NOT TO BE FILLED W/CONC. WHEN PIPES ARE LOCATED WITHIN 15' OF STREET FLOWLINE. USE WELDED STEEL CAP INSTEAD.

Q. WHER CONNECTING BOLLARDS ARE SPECIFIED, WELD 1 1/4" NOM., SCH. 40 PIPE BETWEEN BOLLARDS.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
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REVISIONS (OR CHANGE NOTICES)

REVISIONS

CITY OF ALBUQUERQUE

DRAINAGE
STATIONARY & REMOVABLE
POST DETAILS

DWG. 2250

AUG. 1986

CITY OF ALBUQUERQUE STANDARD
DRAWING 2250

Date: 05-06-96
Drawing File: SRB-2-42.dwg

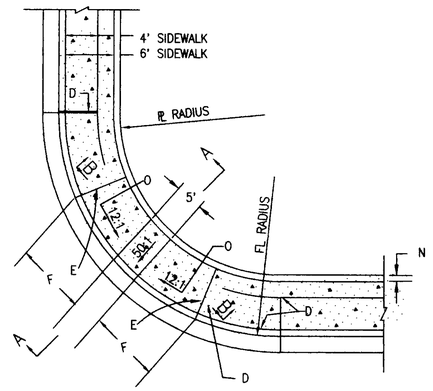
ENGR. FILE : _____

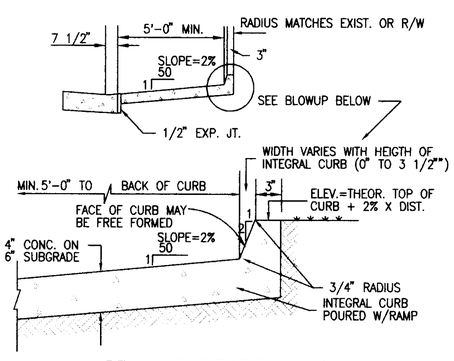
Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-46

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-47 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification



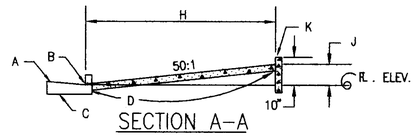

ALTERNATE SECTION A-A

## GENERAL NOTES:

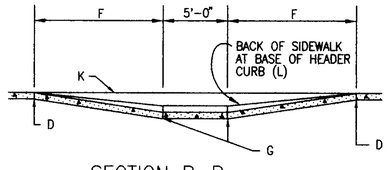
1. SEE PLANS FOR SKEW ANGLE OF RAMP.
2. RAMP FLARES SHALL BE HEAVY BROOMED IN THE DIRECTION PARALLEL TO THE SIDEWALK. THE LANDING AREA SHALL BE HEAVY BROOMED IN THE DIRECTION PERPENDICULAR TO THE SIDEWALK.
3. GUTTER FLOWLINE PROFILE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP. DRAINAGE CATCH BASIN STRUCTURES SHALL NOT BE PLACED IN LINE WITH THE RAMPS.

## CONSTRUCTION NOTES:

A. SLOPE OF GUTTER DEPENDENT ON REQUIREMENTS FOR VALLEY GUTTER.
C. TRANSITION SHALL BE SMOOTH WITHOUT A LIP.
D. 1/2" EXPANSION JOINT.
E. RADIAL LINES - TOP AND BOTTOM OF RAMP.
F. DISTANCE REQUIRED TO MAINTAIN A SLOPE NO STEEPER THAN 12:1 (H:V)
G. CONTRACTION (DUMMY) JOINT.
H. VARIES WITH AVAILABLE R.O.W.
K. HEADER CURB, SEE SHT. 2-3
L. BACK OF SIDEWALK
M. BACK OF SIDEWALK RADIUS TO BE ESTABLISHED SO AS TO MAINTAIN A 5'-0" RAMP WIDTH (MINIMUM) OR MORE THROUGHOUT.
N. 4 1/2" MAX.
O. 12:1 SLOPE MAXIMUM ON RAMP.
P. ANY PRIVATE LANDSCAPING AND/OR IRRIGATION SHALL BE RESTORED TO ORIGINAL CONDITION. SHOULD ANY PRIVATE IMPROVEMENTS NEED TO BE REMOVED, OWNER MUST BE NOTIFIED.




SECTION A-A




SECTION B-B

# CURB ACCESS RAMP DETAIL

N.T.S.

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
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| 3 | | | |
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| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

**CURB ACCESS RAMP DETAIL**

Time: 9:49:30
Date: 4/6/1997 LJS
Drawing File: L:\PROJECTS\2616A\STD\SRB-2-43

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-47

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-48 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

ENVIRONMENTAL REQUIREMENTS

THE FOLLOWING ITEMS REQUIRE SPECIAL ATTENTION:

1. TEMPORARY FENCING SHALL BE BUILT BEFORE CONSTRUCTION BEGINS TO PROTECT ARCHEOLOGICAL SITES AS PER GENERAL NOTE 25.
2. ONSITE ASPHALT MIXING ACTIVITIES SHALL CONFORM TO SECTION 110.4 – BITUMINOUS MIXING PLANTS.

W.T. Gayler 9-5-96

ENVIRONMENTAL PROGRAM MANAGER

1. DISPOSAL OF REMOVED ASPHALT PAVEMENT MATERIAL. THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF ALL ASPHALT PAVEMENT MATERIAL REMOVED ON THE PROJECT IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS. PAYMENT FOR THIS WORK WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR ITEM 601100 – "REMOVAL OF SURFACING".

2. DISPOSAL OF UNSUITABLE MATERIALS AND DEBRIS. ITEMS DESIGNATED FOR REMOVAL WITHOUT SALVAGE, UNSUITABLE CONSTRUCTION MATERIALS AND DEBRIS FROM CLEARING AND GRUBBING ARE TO BE PLACED IN AN ENVIRONMENTALLY SUITABLE DISPOSAL SITE SECURED AND COORDINATED BY THE CONTRACTOR. WITH THE APPROPRIATE AGENCIES, AND IN ACCORDANCE WITH SECTION 110 – CONTROL OF ENVIRONMENT. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER, IN WRITING, OF THE DETAILS OF THE DISPOSAL OPERATIONS. BORROW MATERIAL, ROCK WASTE, VEGETATIVE DEBRIS, ETC. SHALL NOT BE PLACED IN WETLAND AREAS OR ARES WHICH MAY IMPACT ENDANGERED SPECIES OR ARCHEOLOGICAL RESOURCES. AN ARCHEOLOGICAL SURVEY AND ENVIRONMENTAL CLEARANCE SHALL BE OBTAINED BY THE CONTRACTOR BEFORE DISPOSAL SITES ARE ACCEPTED IN ACCORDANCE WITH SUBSECTION 107.23 – CONTRACTORS RESPONSIBILITY FOR ARCHEOLOGICAL CLEARANCE.

3. REPORTING AND CLEANUP OF SPILLS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF SPILLS ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, AND OTHER MATERIALS WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING PAST SPILLS ENCOUNTERED DURING CONSTRUCTION AND OF CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION. REPORTS SHALL BE MADE IMMEDIATELY TO THE NM ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT (505) 827-4308 OR (505) 470-3657 AND TO THE PROJECT MANAGER. ANY UNREPORTED SPILLS IDENTIFIED AFTER CONSTRUCTION AND ASSOCIATED WITH PROJECT CONSTRUCTION SHALL BE CLEANED UP BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT. THE CONTRACTOR SHALL BEAR THE FULL COST OF CLEANUP OF SUCH UNREPORTED SPILLS.

4. CONTRACTOR'S ACTIVITIES IN THE VICINITY OF WATERWAYS. ALL WORK IN THE VICINITY OF LIVE STREAMS, WATER IMPOUNDMENTS, WETLANDS OR IRRIGATION SUPPLIES SHALL BE EFFECTED IN SUCH A MANNER AS TO MINIMIZE VEGETATION REMOVAL, SOIL DISTURBANCE AND EROSION. CROSSINGS OF LIVE STREAMS WITH HEAVY EQUIPMENT SHALL BE MINIMIZED, AS DETERMINED BY THE PROJECT MANAGER. EQUIPMENT REFUELING, MAINTENANCE AND CONCRETE DUMPING IN THE VICINITY OF WATER COURSES IS STRICTLY PROHIBITED AND SHALL BE PERFORMED IN PROPER CONTAINMENT AREAS.

5. REVEGETATION AND EROSION CONTROL MEASURES. THE CONTRACTOR SHALL STRICTLY ADHERE TO THE REVEGETATION AND EROSION CONTROL PLANS. DEVIATIONS FROM THIS PLAN MUST HAVE PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT. THE USE OF EROSION CONTROL MEASURES SHALL BE INCLUDED IN ACCORDANCE WITH THE NPDES GENERAL PERMIT COMPLIANCE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE NEW MEXICO WATER QUALITY ACT AND APPLICABLE CLEAN WATER ACT PERMITS AND REGULATIONS.

**BASE BID**

**BID ALTERNATE 1, 2, 3,**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

**ENVIRONMENTAL CONCERNS SHEET**

SDM-4008(208)

John Eaglin 10/3/96

8-29-96 N:\PROJECTS\JOB\64-STD-SDM-2-44.DWG

ENGR. FILE :

Connell Hanley West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-48

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-49 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

# EROSION AND SEDIMENT CONTROL MEASURES

| STATION TO STATION | | LOCATION | DESCRIPTION | 603050 SEDIMENT TRAP CU. YD. | 603200 SILT FENCE LIN. FT. | 603210 EARTH DIKE LIN. FT. | 603220 CHECK DAM TYPE I LIN. FT. | 603250 DROP INLET PROTECTION TYPE I EACH | 603251 DROP INLET PROTECTION TYPE II EACH | 603260 CULVERT PROTECTION SQ. YD. |
|---|---|---|---|---|---|---|---|---|---|---|
| BID ALTERNATE 2 | | | | | | | | | | |
| 87+85 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 30 | | | |
| 88+00 | | RT. | BUILD 1-CULVERT PROTECTION | | | | | | | 333 |
| 88+00 | | LT. | BUILD 1-CULVERT PROTECTION | | | | | | | 133 |
| 113+65 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 30 | | | |
| 114+00 | | RT. | BUILD 1-CULVERT PROTECTION | | | | | | | 778 |
| 114+00 | | LT. | BUILD 1-CULVERT PROTECTION | | | | | | | 389 |
| 114+35 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 30 | | | |
| 127+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 129+00 | | RT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 129+50 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 131+50 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 132+00 | | RT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 133+25 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 134+00 | | RT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 135+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 136+00 | | RT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 136+00 | 145+00 | LT. | BUILD 1-EARTH DIKE | | | 915 | | | | |
| 137+50 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 140+00 | | RT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 141+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 145+00 | | RT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 145+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 150+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 154+50 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 159+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 161+25 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 163+50 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 165+75 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 168+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 170+25 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 172+50 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 30 | | | |
| 173+00 | | RT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 175+25 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 30 | | | |
| 178+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 30 | | | |
| 180+50 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 30 | | | |
| 181+00 | | RT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 183+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 30 | | | |
| 186+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 30 | | | |
| 189+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 30 | | | |
| 192+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 30 | | | |
| 195+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 30 | | | |
| 198+00 | | RT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 198+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 30 | | | |
| 201+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 30 | | | |
| 203+00 | | RT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| BID ALTERNATE 1 | | | | | | | | | | |
| 205+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 30 | | | |
| 206+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 208+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 210+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 212+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| BID ALTERNATE 1 TOTAL THIS SHEET | | | | 0 | 0 | 0 | 940 | 0 | 0 | 0 |
| BID ALTERNATE 2 TOTAL THIS SHEET | | | | 0 | 0 | 915 | 190 | 0 | 0 | 1633 |

## GENERAL NOTES

RAINFALL AND RUNOFF DATA

RAINFALL: 2 YEAR. – 24 HR.: 1.15 INCHES
HYDROLOGIC SOIL CLASSIFICATION (SCS): B
SCS CURVE NUMBER AND DIRECT RUNOFF – DISTURBED AREAS:
PRIOR TO CONSTRUCTION – CN = 76 q = 0.07 INCHES
DURING CONSTRUCTION – CN = 86 q = 0.28 INCHES
FOLLOWING CONSTRUCTION – CN = 76 q = 0.07 INCHES
SCS CURVE NUMBER AND DIRECT RUNOFF – UNDISTURBED AND OFF-SITE AREAS:
– CN = 76 q = 0.07 INCHES

SOIL CHARACTERISTICS

THE SOILS WITHIN THE PROJECT LIMITS GENERALLY CONSIST OF LOAMY FINE SANDS AND LOAMY SANDS WITH SOME SANDY CLAY LOAM.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

EROSION AND SEDIMENT CONTROL

Time: 18:43:42
Date: 4/9/1997 JTN
Drawing File: L:\PROJECTS\2816A\STD\PPS\SRB-2-45

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-49

| F.H.W.A. REGION NO. 6 | SHEET |
|---|---|
| NEW MEXICO PROJECT NO. | NO. |
| SDM-4008(208) | 2-50 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

# EROSION AND SEDIMENT CONTROL MEASURES

| STATION | TO STATION | LOCATION | DESCRIPTION | 603050 SEDIMENT TRAP CU. YD. | 603200 SILT FENCE LIN. FT. | 603210 EARTH DIKE LIN. FT. | 603220 CHECK DAM TYPE I LIN. FT. | 603250 DROP INLET PROTECTION TYPE I EACH | 603251 DROP INLET PROTECTION TYPE II EACH | 603260 CULVERT PROTECTION SQ. YD. |
|---|---|---|---|---|---|---|---|---|---|---|
| BID ALTERNATE 1 | | | | | | | | | | |
| 214+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 216+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 218+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 220+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 222+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 224+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 226+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 228+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 230+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 232+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 234+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 236+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 238+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 240+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 242+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 244+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 246+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 248+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 250+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 252+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 254+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 256+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 258+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 260+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 262+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 264+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 266+00 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 267+20 | 267+70 | RT. | BUILD 1-EXCAVATED BASIN | 60 | | | | | | |
| 267+50 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 40 | | | |
| 267+57 | | LT. | BUILD 1-CULVERT PROTECTION | | | | | | | 33 |
| 267+57 | | LT. | BUILD 1-DROP INLET PROTECTION TYPE I | | | | | 1 | | |
| 267+73 | | RT. | BUILD 1-DROP INLET PROTECTION TYPE I | | | | | 1 | | |
| 267+73 | | LT. | BUILD 1-CULVERT PROTECTION | | | | | | | 33 |
| BASE BID | | | | | | | | | | |
| 271+00 | | RT. | BUILD 1-CHECK DAM TYPE I | | | | 20 | | | |
| 271+40 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 50 | | | |
| 271+50 | 272+00 | LT. | BUILD 1-CHECK DAM TYPE I | | 50 | | | | | |
| 272+00 | 273+00 | RT. | BUILD 1-CHECK DAM TYPE I | | 100 | | | | | |
| 274+00 | 278+00 | LT. | BUILD 1-CHECK DAM TYPE I | | 420 | | | | | |
| 276+50 | 297+00 | RT. | BUILD 1-CHECK DAM TYPE I | | 2065 | | | | | |
| 297+45 | | RT. | BUILD 1-CULVERT PROTECTION | | | | | | | 22 |
| 298+24 | | LT. | BUILD 1-DROP INLET PROTECTION TYPE II | | | | | | 1 | |
| 300+30 | | RT. | BUILD 1-CULVERT PROTECTION | | | | | | | 22 |
| 300+64 | | RT. | BUILD 1-DROP INLET PROTECTION TYPE II | | | | | | 1 | |
| 313+05 | | RT. | BUILD 1-CULVERT PROTECTION | | | | | | | 22 |
| 313+45 | | LT. | BUILD 1-DROP INLET PROTECTION TYPE II | | | | | | 1 | |
| 314+20 | | RT. | BUILD 1-CHECK DAM TYPE I | | | | 50 | | | |
| 314+25 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 50 | | | |
| 314+65 | | RT. | BUILD 1-CHECK DAM TYPE I | | | | 50 | | | |
| 314+75 | | LT. | BUILD 1-CHECK DAM TYPE I | | | | 50 | | | |
| | | | | | | | | | | |
| | | | BID ALTERNATE 1 TOTAL FROM SHEET 2-49 | 0 | 0 | 0 | 940 | 0 | 0 | 0 |
| | | | BID ALTERNATE 2 TOTAL FROM SHEET 2-49 | 0 | 0 | 915 | 190 | 0 | 0 | 1633 |
| | | | | | | | | | | |
| | | | BASE BID TOTAL | 0 | 2635 | 0 | 270 | 0 | 3 | 66 |
| | | | BID ALTERNATE 1 TOTAL | 60 | 0 | 0 | 2060 | 2 | 0 | 66 |
| | | | BID ALTERNATE 2 TOTAL | 0 | 0 | 915 | 190 | 0 | 0 | 1633 |

## GENERAL NOTES

RAINFALL AND RUNOFF DATA

RAINFALL: 2 YEAR. - 24 HR.: 1.15 INCHES

HYDROLOGIC SOIL CLASSIFICATION (SCS): B

SCS CURVE NUMBER AND DIRECT RUNOFF - DISTURBED AREAS:

PRIOR TO CONSTRUCTION - CN = 76 q = 0.07 INCHES

DURING CONSTRUCTION - CN = 86 q = 0.28 INCHES

FOLLOWING CONSTRUCTION - CN = 76 q = 0.07 INCHES

SCS CURVE NUMBER AND DIRECT RUNOFF - UNDISTURBED AND OFF-SITE AREAS:

- CN = 76 q = 0.07 INCHES

SOIL CHARACTERISTICS

THE SOILS WITHIN THE PROJECT LIMITS GENERALLY CONSIST OF LOAMY FINE SANDS AND LOAMY SANDS WITH SOME SANDY CLAY LOAM.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

EROSION AND SEDIMENT CONTROL

Time: 16:45:5
Date: 4/9/1997 JTN
Drawing File: L:\PROJECTS\28164\STD\PPES\SRB-2-46

ENGR. FILE -

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-50

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-51 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

℄ STA. 81+00 MATCH LINE
SEE SHEET 3-2

℄ STA. 95+00 MATCH LINE
SEE SHEET 3-4

85+00 | 90+00

STA. 87+85 LT. INSTALL 30 LF CHECK DAM, TYPE I

STA. 88+00 RT. BUILD CULVERT PROTECTION (L=100', W=30')

STA. 88+00 LT. BUILD CULVERT PROTECTION (L=40', W=30')

CME 50' x 180'

STA. 88+40 LT. BUILD EARTHEN DYKE 200'x10'x6' (PERMANENT CONSTRUCTION)

STA. 88+00

+16 | +59 | +89 | +64 | +35

R/W | SLOPE LIMITS | ℄ ROADWAY | ℄ ROAD | ℄ SURVEY ℄ CONST.

N 89°49'05" E

C.M.E.

EROSION AND SEDIMENT CONTROL PLAN ONLY

PLAN
SCALE: HORIZ. 1"=50'

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

BID ALTERNATE 2

LEGEND
– TOP OF SURFACING RIO BRAVO

RIO BRAVO BOULEVARD

BENCHMARK
5/8" x 18" REBAR W/CAP "NMPS 7248"
STA. 104+99.63, 678.17' RT.
ELEV. 5482.40

ROADWAY TYPICAL SEC. (A)

PVI STA = 92+00
MO = 0.49
800.00' VC
SSD = 1767

STA. 88+00 BUILD 4-8'x4' CONC. BOX CULV. DES.1, NORM.

PVC: 88+00
ELEV: 5531.86

-1.9600%

-2.4459%

PROFILE GRADE ℄ SURV. & CONST.

H.W. ELEV.5529.13
$Q_{100}$ = 858

℄ ELEV.5523.71

EXISTING PROFILE ℄ SUR. & CONST.

DATUM ELEV 5500.0

| | 81 | 82+00 | 3 | 84+00 | 5 | 86+00 | 7 | 88+00 | 9 | 90+00 | 1 | 92+00 | 3 | 94+00 | 95 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5542.0 | 5538.4 | 5535.4 | 5532.0 | 5530.0 | 5527.7 | 5526.1 | 5524.3 | (5530.88) | 5521.9 | (5528.92) | 5519.5 | (5526.96) | 5516.8 | (5525.00) | 5513.8 | (5522.80) | 5511.5 | (5520.35) | 5508.9 | (5517.91) | 5506.4 |
| | (5546.58) | (5543.62) | (5541.86) | (5539.70) | (5537.74) | (5535.78) | (5533.82) | (5531.86) | 5530.87 | (5529.90) | 5528.85 | (5527.94) | 5527.82 | (5526.98) | 5525.71 | (5524.02) | 5523.53 | (5521.57) | 5521.30 | (5519.13) | 5520.16 | (5516.68) | 5517.84 | 5516.65 |

5560 | 5540 | 5520

Time: 14:29:38
Date: 4/6/2000
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-2-47

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-51

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-52 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

110+00 115+00 120+00

STA. 113+65 LT. BUILD 30 LF CHECK DAM TYPE I
STA. 114+00 RT. BUILD CULVERT PROTECTION (L=100', W=70')
STA. 114+00, LT. BUILD CULVERT PROTECTION (L=50', W=70')
STA. 114+35 LT. BUILD 30 LF CHECK DAM TYPE I
+22
+74
+61
+38
+99
+39

℄ STA. 109+00 MATCH LINE SEE SHEET 3-4

℄ STA. 123+00 MATCH LINE SEE SHEET 2-53

R/W
SLOPE LIMITS
℄ ROADWAY
℄ SURVEY
℄ CONST.
120'
100'
40'
8' 12' 12' 8'
N 89°49'05" E
5485
7'
C.M.E.
5490
5495
200'

LEGEND
– TOP OF SURFACING RIO BRAVO

EROSION AND SEDIMENT CONTROL PLAN ONLY

PLAN
SCALE: HORIZ. 1"=50'

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

BID ALTERNATE 2

RIO BRAVO BOULEVARD

BENCHMARK
5/8" x 18" REBAR W/CAP "NMPS 7248"
STA. 131+81.74, 678.92' RT.
ELEV. 5520.10

ROADWAY TYPICAL SEC. Ⓐ
TRANS. TYP. SEC. Ⓐ TO SEC Ⓑ
1300' V.C.
STA. 120+40
PVT: 112+00
ELEV: 5493.12
STA. 114+00.00 BUILD 5-10'x5' CONC. BOX CULV. DES. 1, NORM.
PVC: 123+00
ELEV: 5496.72
PROFILE GRADE ℄ SURV. & CONST.
+0.3269%
H.W. ELEV. 5492.02
℄ ELEV. 5485.79
EXISTING PROFILE ℄ SURV. & CONST.
DATUM ELEV 5480.0

| | 109 | 110+00 | 1 | 112+00 | 3 | 114+00 | 5 | 116+00 | 7 | 118+00 | 9 | 120+00 | 1 | 122+00 | 123 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5487.4 (5492.14) 5493.11 | (5492.31) 5492.98 | 5486.4 (5492.47) 5492.90 | (5492.63) 5492.86 | 5486.1 (5492.80) 5492.91 | (5492.96 5492.99 | 5486.6 (5495.12) 5493.12 | 5486.1 5493.45 | 5485.9 5493.78 | 5485.9 5494.11 | 5486.2 5494.43 | 5486.6 5494.76 | 5486.7 5495.09 | 5487.0 5495.41 | 5487.1 5495.74 | 5488.8 5496.07 | 5492.1 5496.39 | 5496.7 (5496.72) 5496.72 |

5540 5520 5500

Time: 11:43:17
Date: 4/14/1997 JTN
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-2-48

ENGR. FILE : _____

Consult Planning West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-52

| F.H.W.A. REGION NO. 6. | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-53 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

℄ STA. 123+00 MATCH LINE
SEE SHEET 2-52

℄ STA. 137+00 MATCH LINE
SEE SHEET 2-54

125+00 | 130+00 | 135+00

R/W

STA. 127+00 RT. BUILD 20 LF CHECK DAM TYPE 1

STA. 129+00 RT. BUILD 20 LF CHECK DAM TYPE 1

STA. 129+50 LT. BUILD 20 LF CHECK DAM TYPE 1

STA. 131+50 LT. BUILD 20 LF CHECK DAM TYPE 1

STA. 132+00 RT. BUILD 20 LF CHECK DAM TYPE 1

STA. 133+25 LT. BUILD 20 LF CHECK DAM TYPE 1

STA. 134+00 RT. BUILD 20 LF CHECK DAM TYPE 1

STA. 135+00 LT. BUILD 20 LF CHECK DAM TYPE 1

STA. 136+00 RT. BUILD 20 LF CHECK DAM TYPE 1

STA. 138+00 LT. TO STA. 140+00 LT. BUILD 915 LF EARTH DIKE ALONG TOP OF CUT SLOPE

SLOPE LIMITS

SOIL CEMENT DITCH

℄ ROADWAY

N 89°49'05" E

℄ SURVEY
℄ CONST.

200'

300'

+99.98

5538.3 | 5539.0 | 5536.7 | 5537.1 | 5537.3 | 5537.2 | 5511.8 | 5511.7

LEGEND
– TOP OF SURFACING RIO BRAVO

**PLAN**
SCALE: HORIZ. 1"=50'

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

EROSION AND SEDIMENT CONTROL PLAN ONLY

**BID ALTERNATE 2**

TRANS. TYP. SEC Ⓐ TO SEC Ⓑ

ROADWAY TYPICAL SEC Ⓑ

RIO BRAVO BOULEVARD

BENCHMARK
5/8" x 18" REBAR W/CAP "NMPS 7248"
STA. 131+81.74, 678.92' RT.
ELEV. 5520.10

PVI STA = 133+00
MO = 15.82
2000.00' VC
SSD = 648'

PVC: 123+00
ELEV: 5496.72

STA. 127+00

EXISTING PROFILE ℄ SURV. & CONST.

+0.3269%

-6.00%

PROFILE GRADE ℄ SURV. & CONST.

5520 | 5500 | 5480

| | 123 | 124+00 | 5 | 126+00 | 7 | 128+00 | 9 | 130+00 | 1 | 132+00 | 3 | 134+00 | 5 | 136+00 | 137 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATUM ELEV 5460.0 | 5496.72 | 5496.84 | 5501.7 | 5496.89 | 5496.85 | 5506.9 | 5496.74 | 5496.55 | 5512.3 | 5496.28 | 5495.93 | 5515.9 | 5495.50 | 5494.99 | 5518.4 | 5494.40 | 5493.73 | 5520.1 | 5492.99 | 5492.16 | 5522.0 | 5491.26 | 5490.27 | 5525.0 | 5489.21 | 5488.07 | 5529.2 | 5486.85 | 5485.55 | 5533.2 | 5484.17 | 5482.71 | 5536.4 | 5481.18 | 5479.56 | 5519.5 | 5477.87 | 5476.09 | 5507.2 | 5474.24 | 5472.31 | 5595.0 | 5470.29 |
| | (5496.72) | (5496.88) | (5497.05) | (5496.89) | (5497.21) | (5497.37) | (5496.74) | (5497.54) | (5497.70) | (5496.28) | (5497.86) | (5498.03) | (5495.50) | (5498.19) | (5498.36) | (5494.40) | (5498.52) | (5498.68) | (5492.99) | (5498.85) | (5499.01) | (5491.26) | (5499.17) | (5498.34) | (5489.21) | (5499.50) | (5499.66) | (5486.85) | (5499.83) | (5499.99) | (5484.17) | (5498.99) | (5495.99) | (5481.18) | (5490.99) | (5479.56) | (5487.99) | (5476.09) | (5484.99) | (5481.99) | (5474.24) | (5478.99) | (5472.31) | (5478.99) | (5470.29) |

Time: 11:48:15
Date: 4/14/1997 JTN
Drawing File: L:\PROJECTS\2818A\STD\PPS\SRB-2-49

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-53

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-54 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

℄ STA. 137+00 MATCH LINE
SEE SHEET 2-53

℄ STA. 151+00 MATCH LINE
SEE SHEET 2-55

STA. 137+50 LT. BUILD 20 LF CHECK DAM TYPE 1

STA. 138+00 TO STA. 139+50 LT. GRADE SWALE BEHIND EARTH DIKE TO PROVIDE POSITIVE DRAINAGE TO EXISTING ARROYO

STA. 140+00 RT. BUILD 20 LF CHECK DAM TYPE 1

STA. 141+00 LT. BUILD 20 LF CHECK DAM TYPE 1

STA. 136+00 TO STA. 145+00 LT. BUILD 918 LF EARTH DIKE ALONG TOP OF CUT SLOPE

STA. 145+00 RT. BUILD 20 LF CHECK DAM TYPE 1

STA. 145+00 LT. BUILD 20 LF CHECK DAM TYPE 1

STA. 150+00 LT. BUILD 20 LF FILTER DAM TYPE 1

SOIL CEMENT DITCH

SLOPE LIMITS

℄ ROADWAY

℄ SURVEY ℄ CONST.

R/W

N 68°48'05" E

+99.98

LEGEND
— TOP OF SURFACING RIO BRAVO

EROSION AND SEDIMENT CONTROL PLAN ONLY

PLAN
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 2

RIO BRAVO BOULEVARD

BENCHMARK
5/8" x 18" REBAR W/CAP
NMHS 7248
STA. 150+17.68, 690.69' RT.
ELEV. 5333.70

2000.00' VC

ROADWAY TYPICAL SEC. Ⓑ

EXISTING PROFILE ℄ SURV. & CONST.

PROFILE GRADE ℄ SURV. & CONST.

PVT: 143+00
ELEV: 5439.99

-6.0000%

DATUM ELEV
5360.0

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5495.0 | 5488.21 | 5487.3 | 5483.79 | 5482.3 | 5459.05 | 5477.6 | 5454.00 | 5457.0 | 5448.63 | 5450.0 | 5442.95 | 5444.2 | 5435.0 | 5429.5 | 5420.0 | 5413.9 | 5406.3 | 5400.0 | 5396.2 | 5386.6 |
| 5470.29 | | (5469.99) | | (5463.99) | | (5457.99) | | (5451.99) | | (5445.99) | | (5439.99) | (5438.99) | 5427.99 | 5421.99 | 5415.99 | 5409.99 | 5403.99 | 5397.99 | 5391.99 |
| | | 5466.04 | | 5461.46 | | 5456.57 | | 5451.36 | | 5445.83 | | 5439.99 | 5438.99 | | | | | | | |

138+00 | 9 | 140+00 | 1 | 142+00 | 3 | 144+00 | 5 | 146+00 | 7 | 148+00 | 9 | 150+00 | 1

Time: 9:7:56
Date: 4/9/1997 LJS
Drawing File: L:\PROJECTS\26164\STD\PPS\SRB-2-50

ENGR. FILE : _____

Campbell Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-54

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-55 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

℄ STA. 151+00 MATCH LINE
SEE SHEET 2-54

℄ STA. 165+00 MATCH LINE
SEE SHEET 2-56

STA. 154+50 LT. BUILD 20 LF CHECK DAM TYPE 1

STA. 159+00 LT. BUILD 20 LF CHECK DAM TYPE 1

STA. 161+25 LT. BUILD 20 LF CHECK DAM TYPE 1

STA. 163+50 LT. BUILD 20 LF CHECK DAM TYPE 1

155+00

160+00

R/W

SOIL CEMENT DITCH

SLOPE LIMITS

℄ ROADWAY

N 89°49'05" E

℄ SURVEY
℄ CONST.

5366.9

LEGEND

– TOP OF SURFACING
RIO BRAVO

**EROSION AND SEDIMENT CONTROL PLAN ONLY**

**PLAN**
SCALE: HORIZ. 1"=50'

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

**BID ALTERNATE 2**

RIO BRAVO BOULEVARD

ROADWAY TYPICAL SEC. Ⓑ

BENCHMARK
5/8" x 18" REBAR W/CAP
"NMDOT 7248"
STA. 159+17.68, 690.89' RT.
ELEV. 5333.70

-6.0000%

PROFILE GRADE ℄ SURV. & CONST.

EXISTING PROFILE ℄ SURV. & CONST.

DATUM ELEV 5290.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5386.6 | 5391.99 | 5380.2 | 5386.99 | 5371.2 | 5378.99 | 5365.2 | 5373.99 | 5360.0 | 5367.99 | 5353.3 | 5361.99 | 5346.2 | 5355.99 | 5340.0 | 5349.99 | 5335.0 | 5343.99 | 5331.0 | 5337.99 | 5325.4 | 5331.99 | 5320.1 | 5326.99 | 5315.2 | 5319.99 | 5309.6 | 5318.99 | 5302.0 | 5307.99 |
| 151 | | 152+00 | | 3 | | 154+00 | | 5 | | 156+00 | | 7 | | 158+00 | | 9 | | 160+00 | | 1 | | 162+00 | | 3 | | 164+00 | | 165 | |

5380 5360 5340 5320 5300

Time: 9:24:42
Date: 4/9/2007 LJS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-2-51

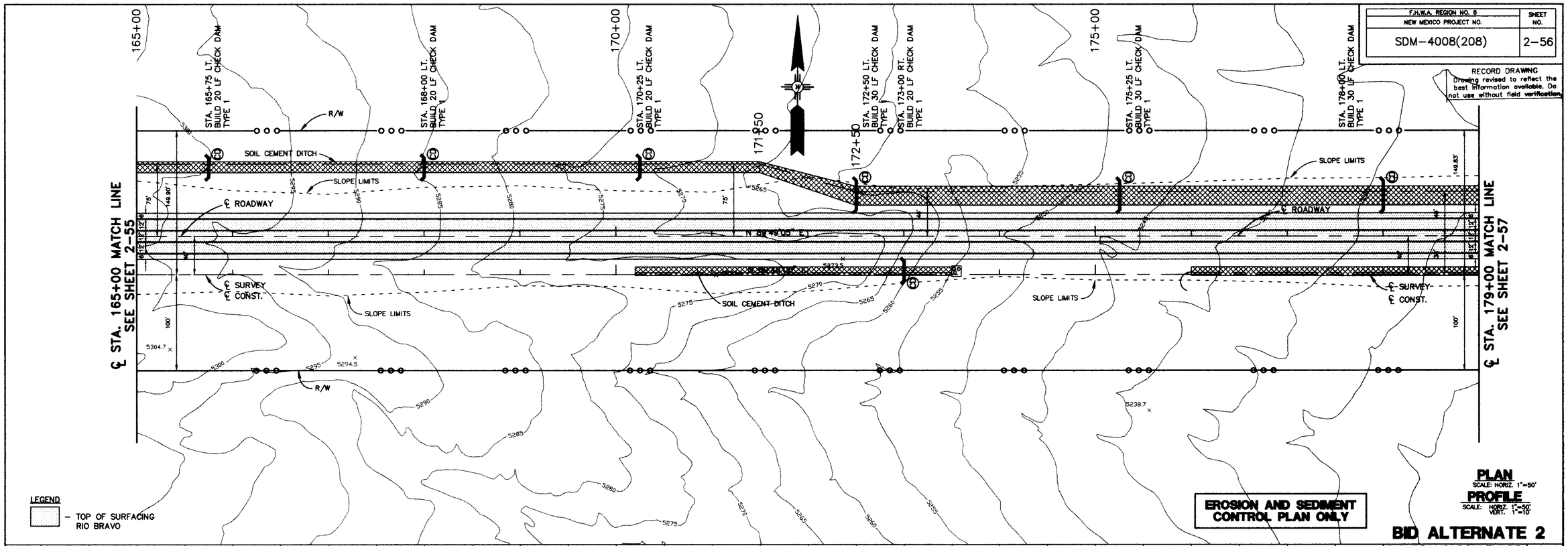
ENGR. FILE : _____

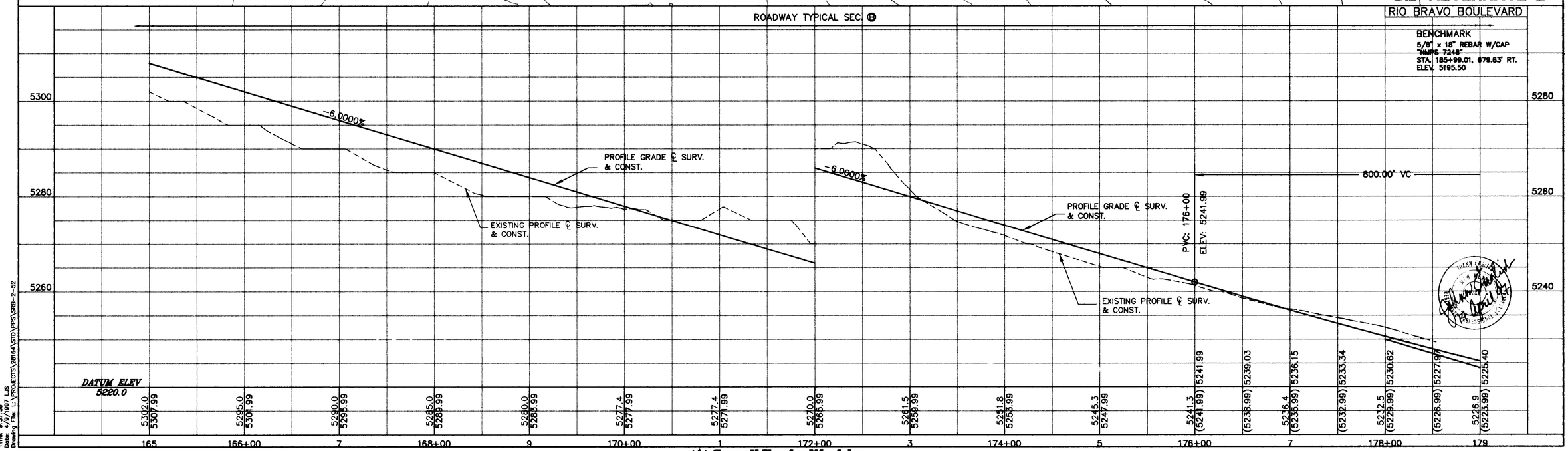
Cornnell Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-55

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-56 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.




Time: 9:37:56
Date: 4/9/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-2-52

ENGR. FILE : _____

Connolt Planning West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-56

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-57 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

℄ STA. 179+00 MATCH LINE
SEE SHEET 2-56

℄ STA. 193+00 MATCH LINE
SEE SHEET 2-58

STA. 180+50 LT. BUILD 30 LF CHECK DAM TYPE 1
STA. 181+00 RT. BUILD 20 LF CHECK DAM TYPE 1
STA. 183+00 LT. BUILD 30 LF CHECK DAM TYPE 1
STA. 186+00 LT. BUILD 30 LF CHECK DAM TYPE 1
STA. 189+00 LT. BUILD 30 LF CHECK DAM TYPE 1
STA. 192+00 LT. BUILD 30 LF CHECK DAM TYPE 1

180+00 185+00 190+00

SLOPE LIMITS
SOIL CEMENT DITCH
℄ ROADWAY
℄ SURVEY
℄ CONST.
R/W
N 89°49'05" E
5201.5

LEGEND
– TOP OF SURFACING RIO BRAVO

EROSION AND SEDIMENT CONTROL PLAN ONLY

**PLAN**
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 2

RIO BRAVO BOULEVARD

ROADWAY TYP. SEC. Ⓑ
TRANSITION TYP. SEC. Ⓑ TO TYP. SEC. Ⓐ
ROADWAY TYP. SEC. Ⓐ
STA. 184+00
STA. 187+60
PVI STA = 180+00
MO = 2.50
800.00' VC
6.0000%
-3.5000%
PVT: 184+00
ELEV: 5203.99
PROFILE GRADE ℄ SURV. & CONST.
EXISTING PROFILE ℄ SURV. & CONST.
DATUM ELEV 5170.0

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5225.40 | 5222.90 | 5220.49 | 5218.15 | 5215.90 | 5213.72 | 5211.62 | 5209.59 | 5207.65 | 5205.78 | 5203.99 | 5199.1 | 5195.4 | 5191.6 | 5188.0 | 5184.1 | 5180.8 | 5177.8 | 5174.9 | 5172.3 |
| (5225.99) | (5220.99) | (5217.99) | (5216.24) | (5214.49) | (5212.74) | (5210.99) | (5209.24) | (5207.49) | (5205.74) | (5205.99) | 5200.49 | 5196.99 | 5193.49 | 5189.99 | 5186.49 | 5182.99 | 5179.49 | 5175.99 | 5172.49 |
| 5226.9 | | 5223.3 | | 5217.2 | | 5211.7 | | 5205.7 | | 5202.3 | | 5195.4 | | 5188.0 | | 5180.8 | 5177.8 | 5174.9 | 5172.3 |

| 179 | 180+00 | 1 | 182+00 | 3 | 184+00 | 5 | 186+00 | 7 | 188+00 | 9 | 190+00 | 1 | 192+00 | 193 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

5240 5220 5200 5180

Time: 8:45:00
Date: 4/27/2000
Drawing File: L:\PROJECTS\28164\STD\VPS\SRB-2-53

ENGR. FILE : _____

Community Planning West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-57

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-58 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

℄ STA. 193+00 MATCH LINE
SEE SHEET 2-57

℄ STA. 207+00 MATCH LINE
SEE SHEET 2-59

195+00 — STA. 195+00 LT. BUILD 30 LF CHECK DAM TYPE 1
198+00 RT. BUILD 20 LF CHECK DAM TYPE 1
198+00 LT. BUILD 30 LF CHECK DAM TYPE 1
200+00
201+00 LT. BUILD 30 LF CHECK DAM TYPE 1
203+00 RT. BUILD 20 LF CHECK DAM TYPE 1
205+00 LT. BUILD 30 LF CHECK DAM TYPE 1
206+00 LT. BUILD 40 LF CHECK DAM TYPE 1

BID ALT. 2 | BID ALT. 1

R/W
SLOPE LIMITS
SOIL CEMENT DITCH
CONC. LINED DITCH
℄ ROADWAY
N 89°49'05" E
℄ SURVEY
℄ CONST.
148.76'
190.02'
100'
12' 12' 12' 12'

LEGEND
– TOP OF SURFACING RIO BRAVO

EROSION AND SEDIMENT CONTROL PLAN ONLY

**PLAN**
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATES 1 & 2

RIO BRAVO BOULEVARD

ROADWAY TYP. SEC. Ⓐ

-3.5000%

PROFILE GRADE ℄ SURV. & CONST.

EXISTING PROFILE ℄ SURV. & CONST.

*DATUM ELEV 5120.0*

| | 193 | 194+00 | 5 | 196+00 | 7 | 198+00 | 9 | 200+00 | 1 | 202+00 | 3 | 204+00 | 5 | 206+00 | 207 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXISTING | 5172.3 | 5168.8 | 5166.0 | 5161.6 | 5157.7 | 5154.2 | 5150.8 | 5147.4 | 5143.9 | 5140.0 | 5136.3 | 5132.0 | 5128.0 | 5125.0 | 5121.1 |
| PROFILE GRADE | 5172.49 | 5168.99 | 5165.49 | 5161.99 | 5158.49 | 5154.99 | 5151.49 | 5147.99 | 5144.49 | 5140.99 | 5137.49 | 5133.99 | 5130.49 | 5126.99 | 5123.49 |

5180 / 5160 / 5140

Time: 10:2:8
Date: 4/6/1997 LJS
Drawing File: L:\PROJECTS\26164\STD\PPS\SRB-2-54

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-58

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-59 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

℄ STA. 207+00 MATCH LINE
SEE SHEET 2-58

℄ STA. 221+00 MATCH LINE
SEE SHEET 2-60

STA. 208+00 LT. BUILD 40 LF CHECK DAM TYPE 1
STA. 210+00 LT. BUILD 40 LF CHECK DAM TYPE 1
STA. 212+00 LT. BUILD 40 LF CHECK DAM TYPE 1
STA. 214+00 LT. BUILD 40 LF CHECK DAM TYPE 1
STA. 216+00 LT. BUILD 40 LF CHECK DAM TYPE 1
STA. 218+00 LT. BUILD 40 LF CHECK DAM TYPE 1
STA. 220+00 LT. BUILD 40 LF CHECK DAM TYPE 1

210+00
215+00
220+00

R/W
SLOPE LIMITS
℄ ROADWAY
℄ SURVEY & CONST.
N 89°49'05" E
5120
5115
5110
5105
5095
5090
5080
150'
125'
100'
12' 12' 12' 12'
30'
194.47'
12' 12' 12' 12'
30'
100'
0.045
0.045
0.045

LEGEND
– TOP OF SURFACING RIO BRAVO

**EROSION AND SEDIMENT CONTROL PLAN ONLY**

**PLAN**
SCALE: HORIZ. 1"=50'

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

**BID ALTERNATE 1**

RIO BRAVO BOULEVARD

BENCHMARK
5/8" x 18" REBAR W/CAP
"NMPS 7248"
STA. 212+69.97, 700.51' RT.
ELEV. 5101.10

ROADWAY TYP. SEC. Ⓐ

PVI STA = 220+00
MO = -0.90
800.00' VC

3.5000%
-2.60%

PVC: 216+00
ELEV: 5091.99

PROFILE GRADE ℄ SURV. & CONST.
EXISTING PROFILE ℄ SURV. & CONST.

DATUM ELEV
5070.0

| | 207 | 208+00 | 9 | 210+00 | 1 | 212+00 | 3 | 214+00 | 5 | 216+00 | 7 | 218+00 | 9 | 220+00 | 221 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5121.1 | 5116.2 | 5116.0 | 5113.2 | 5110.4 | 5107.6 | 5104.0 | 5100.3 | 5096.7 | 5093.0 | 5089.3 | 5084.7 | 5080.4 | 5076.9 | 5075.3 |
| | 5125.49 | 5119.99 | 5118.49 | 5112.99 | 5109.49 | 5106.99 | 5102.49 | 5098.99 | 5095.49 | 5091.99 | (5088.49) | (5084.99) | (5081.49) | (5077.99) | (5076.39) |
| | | | | | | | | | | (5091.99) | (5090.24) | (5086.74) | (5083.24) | (5079.74) | (5078.86) |
| | | | | | | | | | | | 5088.55 | 5085.22 | 5082.00 | 5080.43 | 5077.30 |
| | | | | | | | | | | | | 5086.87 | 5083.59 | 5078.86 | 5075.90 |

5140
5120
5100
5080

Time: 10:9:5
Date: 4/9/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-2-55

ENGR. FILE : _____

Cornell Haukup West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-59

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-60 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

℄ STA. 221+00 MATCH LINE
SEE SHEET 2-59

℄ STA. 235+00 MATCH LINE
SEE SHEET 2-61

STA. 222+00 LT. BUILD 40 LF CHECK DAM TYPE 1
STA. 224+00 LT. BUILD 40 LF CHECK DAM TYPE 1
STA. 226+00 LT. BUILD 40 LF CHECK DAM TYPE 1
STA. 228+00 LT. BUILD 40 LF CHECK DAM TYPE 1
STA. 230+00 LT. BUILD 40 LF CHECK DAM TYPE 1
STA. 233+00 LT. BUILD 40 LF CHECK DAM TYPE 1
STA. 234+00 LT. BUILD 40 LF CHECK DAM TYPE 1

225+00

R/W

SLOPE LIMITS

℄ ROADWAY

℄ SURVEY
℄ CONST.

N 89°49'05" E

151.4'
125'
100'
80'
12' 12' 12' 12'

5070
5065
5060
5055
5050
152.9'
125'
100'
80'
12' 12' 12' 12'

**PLAN**
SCALE: HORIZ. 1"=50'

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

**EROSION AND SEDIMENT CONTROL PLAN ONLY**

**BID ALTERNATE 1**

LEGEND
– TOP OF SURFACING RIO BRAVO

RIO BRAVO BOULEVARD

BENCHMARK
5/8" x 18" REBAR W/CAP "NMPS 7248"
STA. 212+69.97, 200.51' RT.
ELEV. 5101.10

ROADWAY TYP. SEC. Ⓐ

800.00' VC

PVT: 224+00
ELEV: 5067.59

PVC: 235+00
ELEV: 5038.99

-2.6000%

PROFILE GRADE ℄ SURV. & CONST.

EXISTING PROFILE ℄ SURV. & CONST.

DATUM ELEV 5030.0

| | 221 | 222+00 | 3 | 224+00 | 5 | 226+00 | 7 | 228+00 | 9 | 230+00 | 1 | 232+00 | 3 | 234+00 | 235 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5075.3 | (5075.39) 5075.90 | (5074.09) 5074.44 | 5073.2 | (5072.79) 5073.02 | (5071.49) 5071.62 | 5070.6 | (5070.19) 5070.25 | (5068.89) 5068.90 | 5068.5 | (5067.59) 5067.59 | 5066.0 | 5064.99 | 5062.6 | 5062.39 | 5058.8 | 5059.79 | 5055.3 | 5057.19 | 5052.1 | 5054.59 | 5050.1 | 5051.99 | 5047.9 | 5049.39 | 5045.9 | 5046.79 | 5044.0 | 5044.19 | 5040.8 | 5041.59 | 5037.8 | (5038.99) 5038.99 |

5100
5080
5060
5040

Time: 10:18:14
Date: 4/6/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-2-56

ENGR. FILE : _____

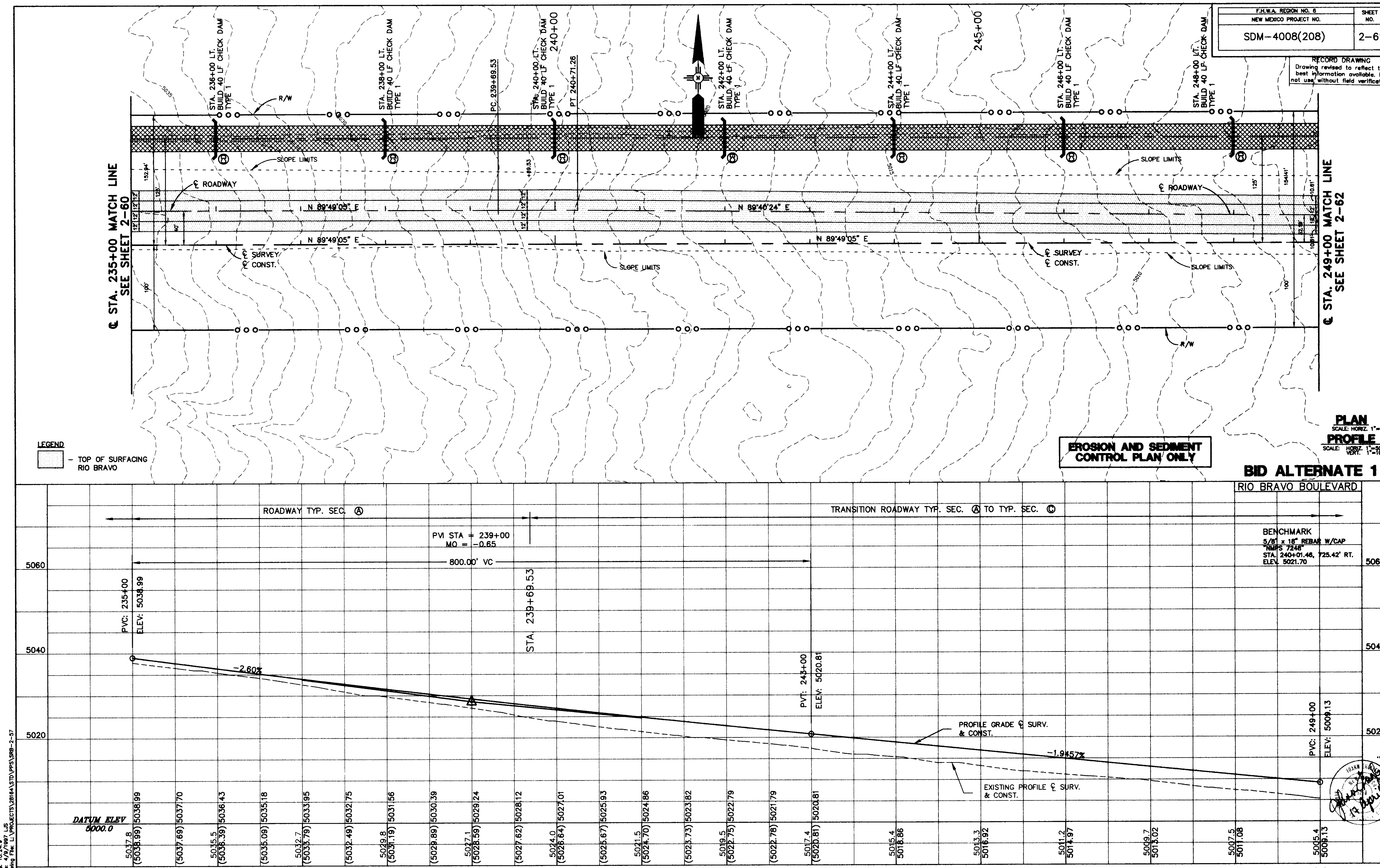
Cornell Rawlings West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-60

F.H.W.A. REGION NO. 6

| NEW MEXICO PROJECT NO. | SHEET NO. |
| --- | --- |
| SDM-4008(208) | 2-61 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.




EROSION AND SEDIMENT CONTROL PLAN ONLY

**PLAN**
SCALE: HORIZ. 1"=50'

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

# BID ALTERNATE 1

RIO BRAVO BOULEVARD

Time: 10:24:9
Date: 4/9/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-2-57

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-61

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-62 |

RECORD DRAWING
Drawing revised to reflect the latest information available. Do not use without field verification.

℄ STA. 249+00 MATCH LINE
SEE SHEET 2-61

℄ STA. 263+00 MATCH LINE
SEE SHEET 2-63

STA. 7+30
BEG. CONST.

STA. 5+00
BEG. CONST.

℄ CONSTR. MEADE AVE.

℄ ROADWAY

℄ FRONTAGE RD.

SLOPE LIMITS

℄ SURVEY
℄ CONST.

R/W

N 89°40'24" E

N 89°49'05" E

STA. 250+00 LT.
BUILD 40 LF CHECK DAM
TYPE 1

STA. 252+00 LT.
BUILD 40 LF CHECK DAM
TYPE 1

STA. 254+00 LT.
BUILD 40 LF CHECK DAM
TYPE 1

STA. 256+00 LT.
BUILD 40 LF CHECK DAM
TYPE 1

STA. 258+00 LT.
BUILD 40 LF CHECK DAM
TYPE 1

STA. 260+00 LT.
BUILD 40 LF CHECK DAM
TYPE 1

STA. 262+00 LT.
BUILD 40 LF CHECK DAM
TYPE 1

LEGEND
– TOP OF SURFACING
RIO BRAVO

EROSION AND SEDIMENT CONTROL PLAN ONLY

**PLAN**
SCALE: HORIZ. 1"=50'

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

**BID ALTERNATE 1**

RIO BRAVO BOULEVARD

TRANSITION ROADWAY TYP. SEC. Ⓐ TO TYP. SEC. Ⓒ

PVI STA = 253+00
MO = –0.80

800.00' VC

800.00' VC

PVC: 249+00
ELEV: 5009.13

PVT: 257+00
ELEV: 4996.79

PVC: 259+00
ELEV: 4994.51

–1.9457%

–1.1400%

PROFILE GRADE ℄ SURV. & CONST.

EXISTING PROFILE ℄ SURV. & CONST.

BENCHMARK
5/8" x 18" REBAR W/CAP
"NMPS 7248"
STA. 266+96.31, 874.48' RT.
ELEV. 4986.30

DATUM ELEV
4970.0

| | 249 | 250+00 | 1 | 252+00 | 3 | 254+00 | 5 | 256+00 | 7 | 258+00 | 9 | 260+00 | 1 | 262+00 | 263 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5040 | | | | | | | | | | | | | | | |
| 5020 | | | | | | | | | | | | | | | |
| 5000 | | | | | | | | | | | | | | | |
| 4980 | | | | | | | | | | | | | | | |
| (EXISTING) | 5009.13 | 5008.16 | 5007.19 | 5006.21 | 5005.24 | 5004.27 | 4999.07 | 5003.30 | 5002.32 | 4998.9 (5001.35) | 5002.15 | 5000.78 | 5000.21 | 4999.64 | 4997.4 (4997.07) | 4999.27 | 4998.50 | 4997.93 | 4997.36 | 4995.8 (4996.79) | 4996.79 | 4994.4 4995.65 | 4994.51 | 4993.94 | 4993.37 | 4992.80 | 4992.23 | 4991.66 | 4991.09 | 4990.52 | 4989.95 | 4989.09 |
| (PROPOSED) | 5009.13 | 5008.17 | 5007.24 | 5006.33 | 5005.44 | 5004.58 | 4999.6 | 5003.75 | 5002.94 | 4998.9 | 5002.15 | 5001.39 | 5000.66 | 4999.95 | 4997.4 | 4999.27 | 4998.61 | 4997.98 | 4997.37 | 4995.8 | 4996.79 | 4994.4 | 4994.51 | 4993.93 | 4993.32 | 4992.68 | 4992.02 | 4991.32 | 4990.61 | 4989.86 | 4989.09 | |

Time: 10:48:46
Date: 4/9/1997 LJS
Drawing File: L:\PROJECTS\26154\STD\PPS\SRB-2-58

ENGR. FILE : _____

Community Planning West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-62

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-63 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

℄ CONST. MEADE AVE.

℄ STA. 263+00 MATCH LINE
SEE SHEET 2-62

℄ STA. 277+00 MATCH LINE
SEE SHEET 2-64

BID ALT. 1 BASE BID

263+00 270+00 275+00

STA. 263+00 LT. TO STA. 265+49.37 RT. BUILD 440 LF CHECK DAM TYPE 1

STA. 265+49.37 RT. TO STA. 267+00 LT. BUILD 440 LF CHECK DAM TYPE 1

STA. 267+00 LT. TO STA. 267+50 RT. BUILD 100 LF CHECK DAM TYPE 1

STA. 267+50 RT. TO STA. 267+70 LT. BUILD SEDIMENT BASIN (EXCAVATE 5,100 CY) AND 2 LF 48" C.M.P.

STA. 267+70 LT. BUILD DROP INLET PROTECTION AROUND MEDIAN DROP INLET

STA. 267+70 RT. BUILD DROP INLET PROTECTION AROUND MEDIAN DROP INLET

STA. 267+70 RT. TO STA. 267+90 RT. BUILD CULVERT PROTECTION (EXCAVATE 1,100 CY) AND 40 LF 48" C.M.P. OUTLET

STA. 267+90 RT. TO STA. 268+40 RT. BUILD SEDIMENT BASIN (EXCAVATE 5,100 CY) AND 2 LF 48" C.M.P.

STA. 268+40 RT. TO STA. 268+90 RT. BUILD 100 LF CHECK DAM TYPE 1

STA. 268+90 RT. TO STA. 269+40 RT. BUILD 100 LF CHECK DAM TYPE 1

STA. 269+40 RT. TO STA. 269+90 RT. BUILD 100 LF CHECK DAM TYPE 1

STA. 269+90 RT. TO STA. 270+40 RT. BUILD 100 LF CHECK DAM TYPE 1

STA. 270+40 RT. TO STA. 270+90 RT. BUILD 100 LF CHECK DAM TYPE 1

STA. 270+90 RT. TO STA. 271+40 RT. BUILD 100 LF CHECK DAM TYPE 1

STA. 271+40 LT. TO STA. 271+90 LT. BUILD 100 LF CHECK DAM TYPE 1

STA. 271+90 LT. TO STA. 272+00 LT. BUILD 50 LF CHECK DAM TYPE 1

STA. 272+00 LT. TO STA. 272+00 RT. BUILD 20 LF CHECK DAM TYPE 1

STA. 272+00 RT. TO STA. 273+00 RT. BUILD 100 LF SILT FENCE

STA. 272+00 LT. TO STA. 273+00 LT. BUILD 100 LF SILT FENCE

STA. 273+00 RT. TO STA. 274+00 RT. BUILD 100 LF SILT FENCE

STA. 274+00 LT. TO STA. 278+00 LT. BUILD 420 LF SILT FENCE

STA. 276+50 RT. TO STA. 297+00 RT. BUILD 2085 LF SILT FENCE

℄ ROADWAY PT STA. 265+49.37 BK = EQUATION STA. 265+49.27 AH SURV. ℄/CONST. ℄

STA. 268+49.26 RIO BRAVO SURV. ℄
STA. 7+40.48 CONDERSHIRE

STA. 268+49.36 RIO BRAVO ROADWAY ℄
STA. 7+58.48 CONDERSHIRE

PC 274+54.94 ℄ SURVEY
PC 274+54.47 ℄ RDWY.

SLOPE LIMITS
℄ ROADWAY
℄ SURVEY ℄ CONST.
℄ CONST. FR. RD.
WOVEN WIRE BARRIER FENCE
CONCRETE DITCH LINER
AMOLE ARROYO
CULVERT
REMOVE BY CONTR.
CONCRETE DITCH
GATE
TCP
R/W
CONDERSHIRE
ALLEY

N 89°40'24" E
N 89°49'05" E
N 89°49'05" E
89°35'36"
N 00°13'36" E

LEGEND
– TOP OF SURFACING RIO BRAVO

EROSION AND SEDIMENT CONTROL PLAN ONLY

**PLAN**
SCALE: HORIZ. 1"=50'
**PROFILE**
SCALE: HORIZ. 1"=50' VERT. 1"=10'

## BASE BID & BID ALTERNATE 1

RIO BRAVO BOULEVARD

TRANSITION ROADWAY TYP. SEC. (A) TO TYP. SEC. (C)

ROADWAY TYP. SEC. (C)

PVI STA = 263+00
MO = 0.86
SSD = 1172

800.00' VC

PVI: 266+99.90
ELEV: 4981.95

PROFILE GRADE ℄ SURV. & CONST.

−2.0000%

STA. 272+74.06
ABUT. NO. 1

STA. 274+24.80
ABUT. NO. 2

200.00' VC

PVC: 276+00
ELEV: 4963.95

ROADWAY STA. 265+49.37 BK = EQUATION STA. 265+49.27 AH SURV. ℄/CONST. ℄

+49.81 BUILD 1-66" RCP SK 38+45.32 L.F.

℄ 4929.73

EXISTING PROFILE ℄ SURV. & CONST.

BENCHMARK
5/8" x 18" REBAR W/CAP "NMPS 7248"
STA. 266+96.31, 847.48' RT.
ELEV. 4988.30'

| | 4980 | 4960 | 4940 |
|---|---|---|---|
| DATUM ELEV 4920.00 | | | |
| 263 | 4988.0 (4989.95) 4989.09 | | |
| 264+00 | 4988.0 (4988.95) 4988.29 | | |
| 5 | 4987.9 (4987.95) 4987.47 | | |
| 266+00 | 4986.0 (4986.95) 4986.61 | | |
| 7 | 4986.0 (4985.95) 4985.74 | | |
| 268+00 | (4984.948) 4984.84 | | |
| 9 | 4985.0 (4983.95) 4983.90 | | |
| 270+00 | (4982.95) 4982.94 | | |
| 1 | 4986.1 (4981.95) 4981.95 | | |
| 272+00 | 4987.4 4979.95 | | |
| 3 | 4988.7 4977.95 | | |
| 274+00 | 4986.2 4975.95 | | |
| 5 | 4981.1 4973.95 | | |
| 276+00 | 4971.4 4971.95 | | |
| 277 | 4950.3 4969.95 | | |
| | 4948.0 4967.95 | | |
| | 4944.3 4965.95 | | |
| | 4942.0 (4963.95) 4963.95 | | |
| | (4962.95) 4962.99 | | |
| | 4927.8 (4961.95) 4961.70 | | |

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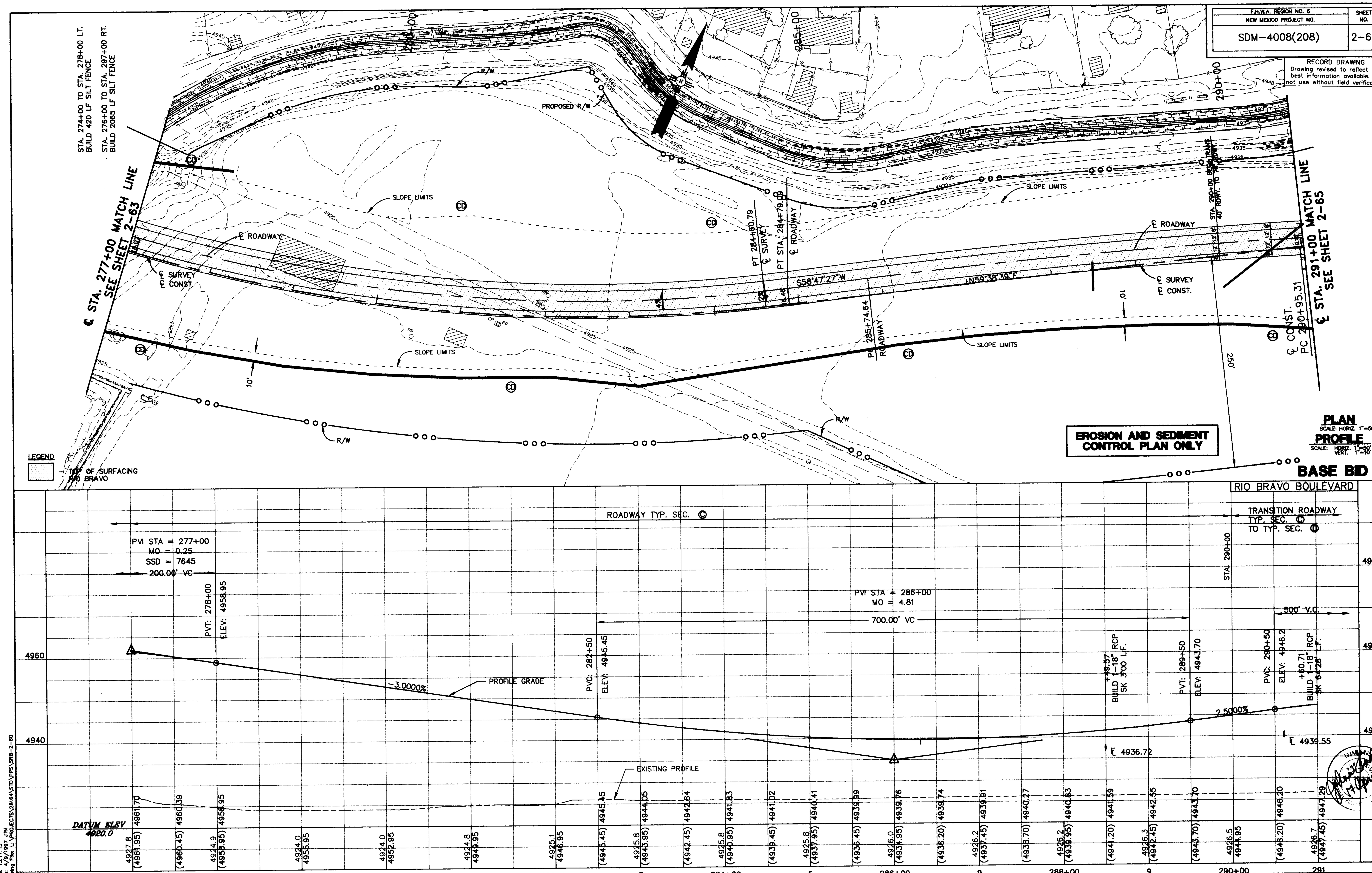
Connell Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-63

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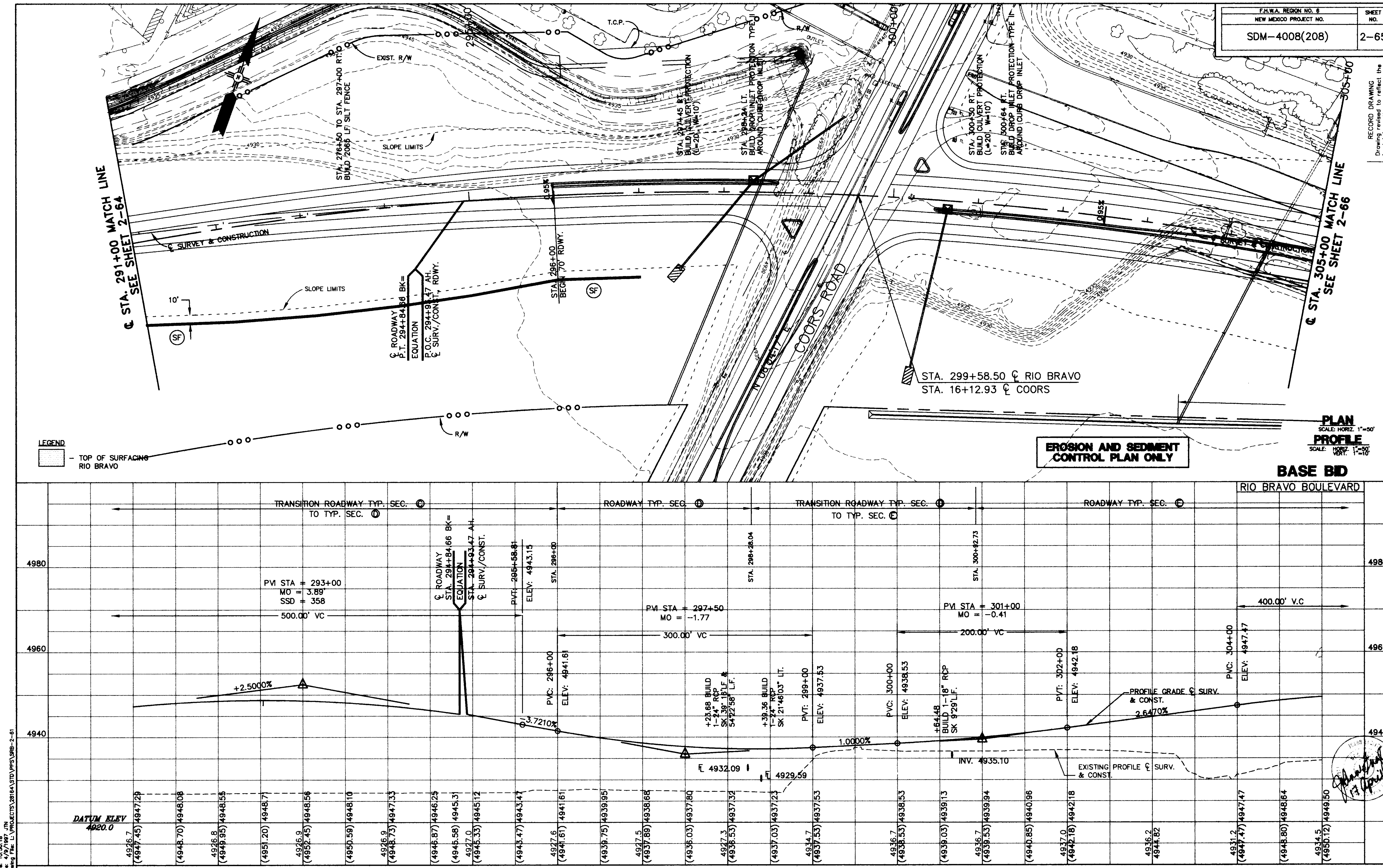


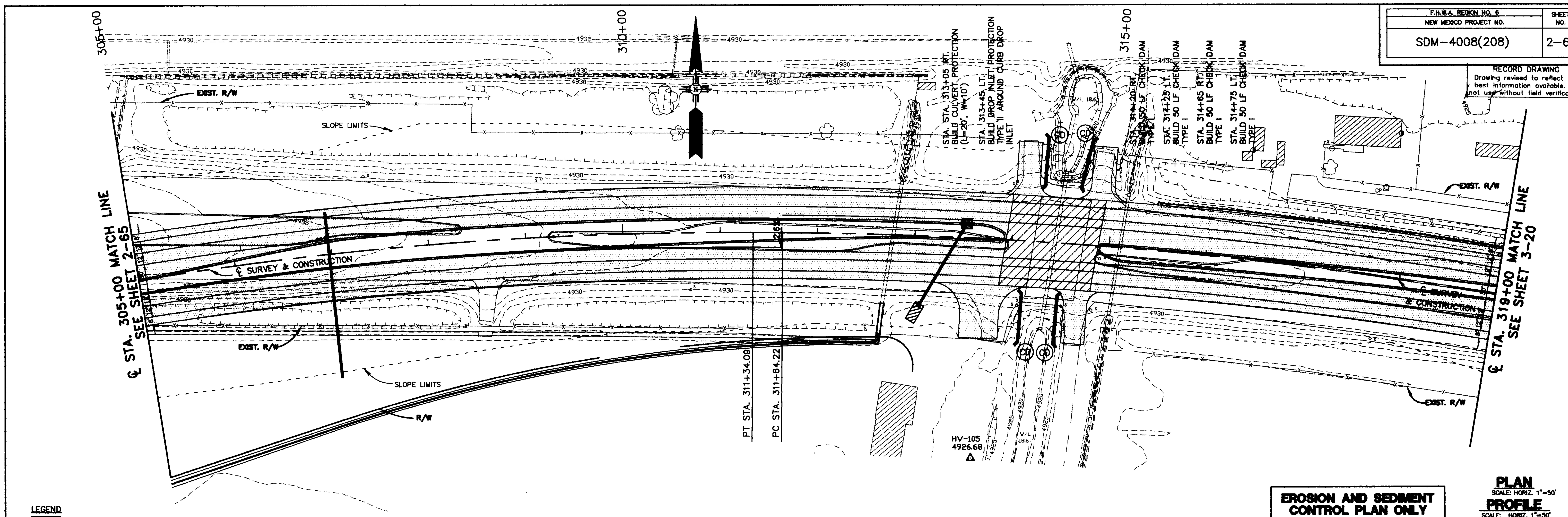

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-65

| F.H.W.A. REGION NO. 6<br>NEW MEXICO PROJECT NO. | SHEET NO. |
|---|---|
| SDM-4008(208) | 2-66 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.




LEGEND

[shaded box] – TOP OF SURFACING RIO BRAVO

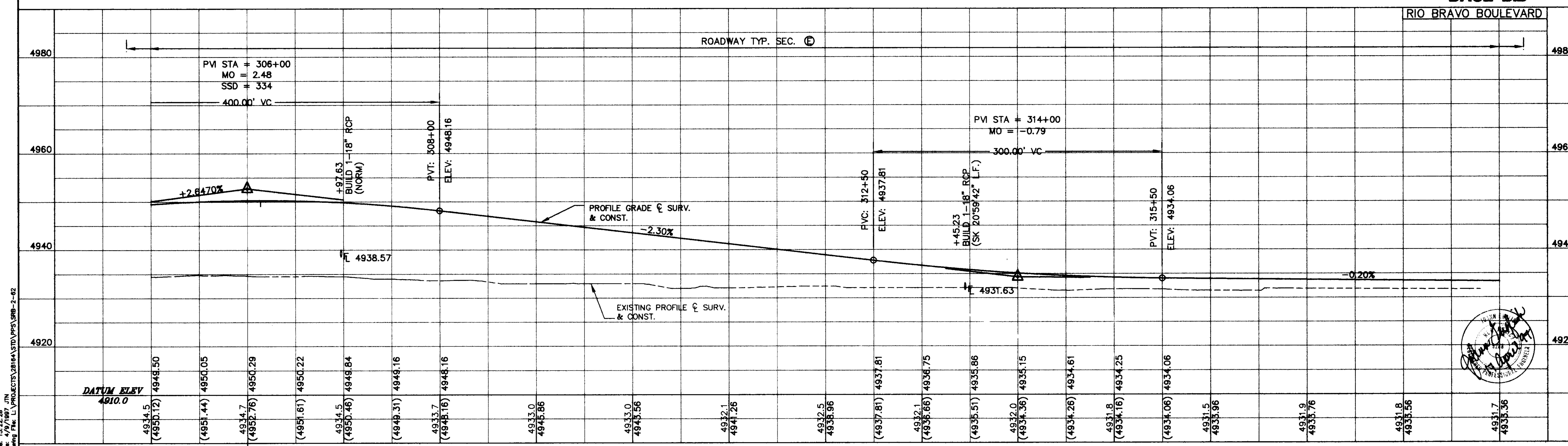
**EROSION AND SEDIMENT CONTROL PLAN ONLY**

**PLAN**
SCALE: HORIZ. 1"=50'

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

**BASE BID**

RIO BRAVO BOULEVARD

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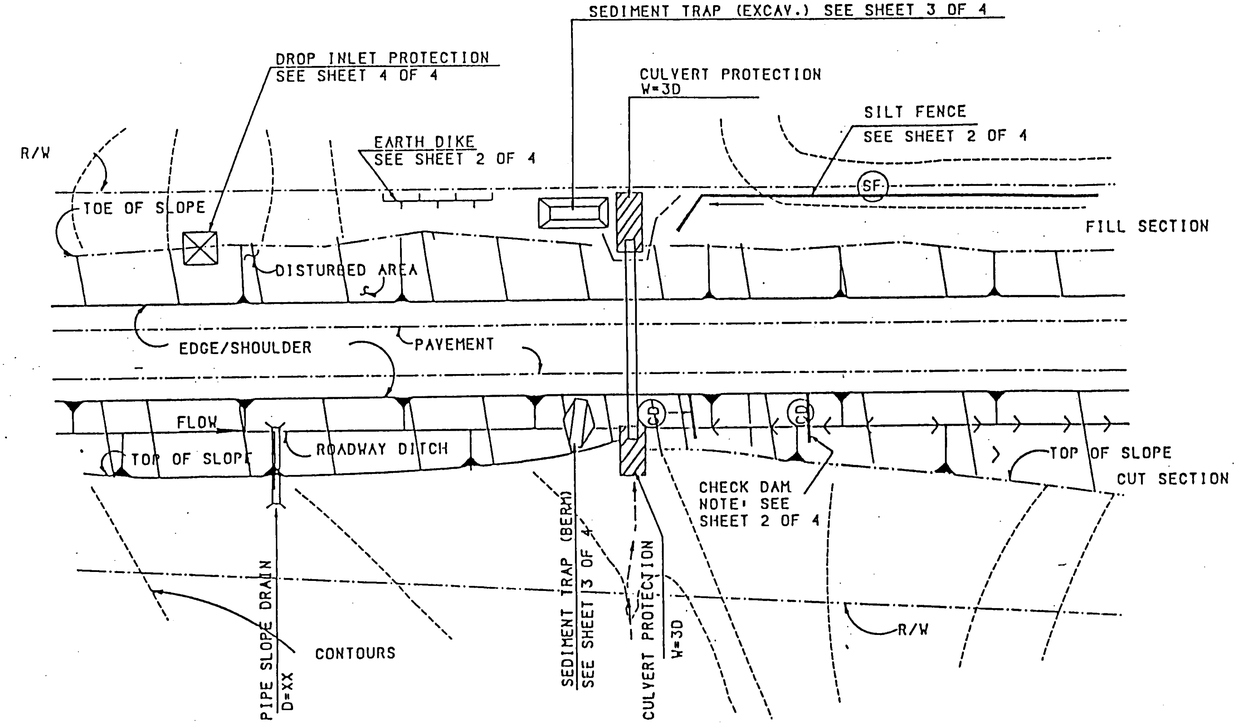
Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-66

F.W.H.A. REGION NO. 6




TYPICAL USAGE OF SELECTED EROSION AND SEDIMENT CONTROL MEASURES

## STANDARD SYMBOLS FOR EROSION AND SEDIMENT CONTROL MEASURES

SILT FENCE INSTALLED W/ LONGITUDINAL SLOPE — SILT FENCE TERMINATION (SF)

CHECK DAM TYPE I & II (CD)

EARTH DIKE

SEDIMENT TRAP- EXCAVATED

SEDIMENT TRAP- BERM

PIPE SLOPE DRAIN

CULVERT PROTECTION

DROP INLET PROTECTION

# TEMPORARY EROSION & SEDIMENT CONTROL MEASURES (T.E.S.C.M.)

## GENERAL NOTES:

1. THE SOIL RETENTION BLANKET INSTALLATION DETAILS SHOWN FOR CULVERT PROTECTION SHALL BE USED FOR ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES UTILIZING SOIL RETENTION BLANKETS UNLESS OTHERWISE NOTED.
2. ROCK PLACEMENT USED IN THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THESE SHEETS SHALL HAVE A MINIMUM THICKNESS OF 6" UNLESS OTHERWISE INDICATED.
3. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES PLACED WITHIN THE CONSTURCTION CLEAR ZONE SHALL BE INSTALLED WITH 8:1 SLOPES PARALLEL TO TRAFFIC AND 4:1 SLOPES PERPENDICULAR TO TRAFFIC.
4. SEDIMENT TRAPS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN APPROXIMATELY 50% FILLED.
5. CHECK DAMS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN THE DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE CHECK DAM.
6. CULVERT PROTECTIONS SHALL BE INSTALLED UPON INITIATION OF EARTH ACTIVITIES AND MAINTAINED AS MUCH AS PRACTICAL UNTIL STABILIZATION IS COMPLETED AND ACCEPTED. CULVERT PROTECTIONS MAY BE REMOVED FOR PERIODS OF TIME AS REQUIRED DURING CONSTRUCTION TO COMPLETE ADJACENT IMPROVEMENTS.
7. THE CONTRACTOR MAY CONSTRUCT AN EARTH DIKE AS SHOWN, OR RELOCATE THE CHECK DAMS AS CONSTRUCTION PROGRESSES. NO DIRECT PAYMENT SHALL BE MADE FOR RELOCATION OF THE CHECK DAMS.

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

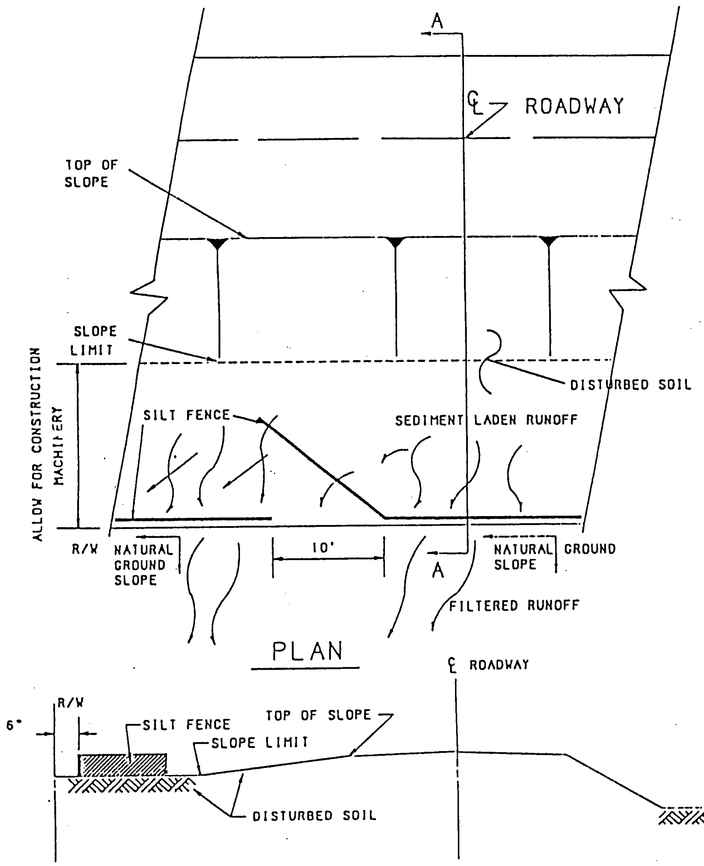
CADD

TEMPORARY EROSION & SEDIMENT CONTROL MEASURES

| | |
|---|---|
| LAYOUT BY | APPROVAL Kenneth L. Via 8/22/97 |
| DRAWN BY | RECOMMENDED ENGINEER DATE |
| CHECKED BY | APPROVED [illegible] 9-4-96 |
| | DESIGN BUREAU CHIEF DATE |

DRAWING-050 SHEET 1 OF 4

N.M. PROJECT NO. SDM-4008(208) SHEET 2-67

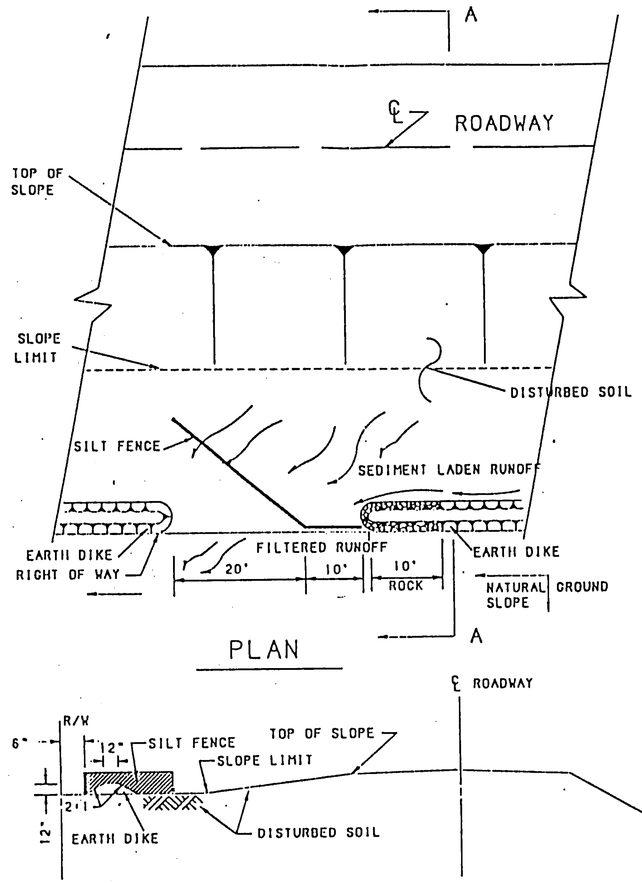



PLAN

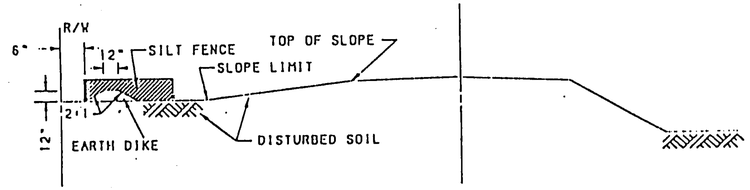



SECTION A-A

TYPICAL INSTALLATION FOR SILT FENCE AT THE BOTTOM OF FILL SLOPE

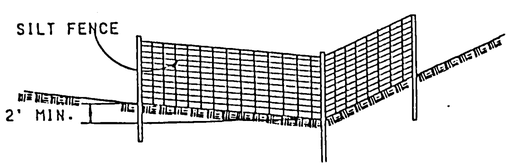



PLAN



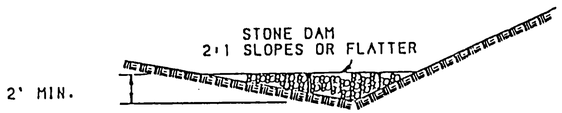

SECTION A-A

TYPICAL INSTALLATION FOR EARTH DIKE AT THE BOTTOM OF FILL SLOPE




ELEVATION - CHECK DAM IN ROADSIDE DITCH (SILT FENCE)

TYPE I




NOTE: STONE SHALL CONSIST OF 1" TO 3" WASHED GRAVEL.

ELEVATION - CHECK DAM IN ROADSIDE DITCH (STONE DAM)

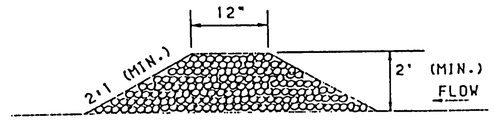
TYPE II

[illegible] REGION NO. 6

GUIDELINES FOR CONTRACTOR'S USE:

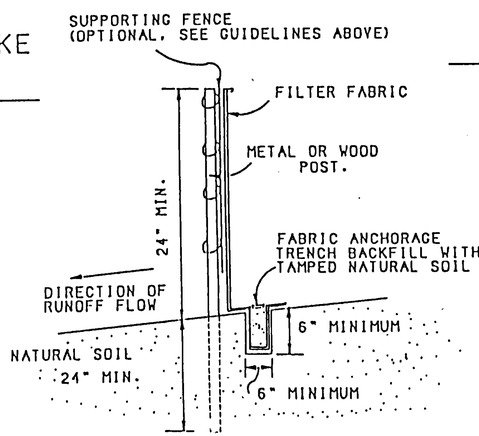
THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE POST SPACING FOR SILT FENCE TO MINIMIZE MAINTENANCE.

1. POST SPACING SHALL BE 4' MAXIMUM W/O SUPPORTING FENCE, 10' MAXIMUM WITH SUPPORTING FENCE.
2. POSTS FOR 4' MAXIMUM POST SPACING SHALL BE 2" SQUARE OR HEAVIER WOOD POSTS OR STANDARD T OR U SECTION STEEL POSTS WEIGHING NOT LESS THAN 1.0 LB. PER LINEAR FOOT. POSTS FOR 10' MAXIMUM POST SPACING SHALL BE 4" SQUARE OR HEAVIER WOOD POSTS OR STEEL POSTS AS SPECIFIED ABOVE.
3. SUPPORTING FENCE SHALL BE WIRE MESH (14 GA. MIN., 6" MAX. MESH OPENINGS) OR SNOW FENCE.
4. SUPPORTING FENCE SHALL BE FASTENED SECURELY TO POSTS WITH STAPLES OR WIRE TIES. FILTER FABRIC SHALL BE FASTENED SECURELY TO SUPPORTING FENCE WITH WIRE TIES SPACED AT 24" CENTERS ALONG THE TOP AND MID-SECTION. WHEN A SUPPORTING FENCE IS NOT USED, FILTER FABRIC SHALL BE SECURELY FASTENED TO POSTS WITH STAPLES OR WIRE TIES.
5. WHEN SILT FENCE IS USED FOR CHECK DAM INSTALLED IN DITCHES A SUPPORTING FENCE SHALL BE PROVIDED AND THE POST SPACING SHALL BE 10' MAXIMUM.

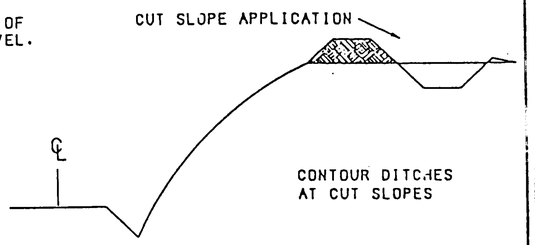



ELEVATION - DETAIL (STONE DAM)

NOTE: STONE SHALL CONSIST OF 1" TO 3" WASHED GRAVEL.




ELEVATION - DETAIL (SILT FENCE OPTION)




RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

CADD

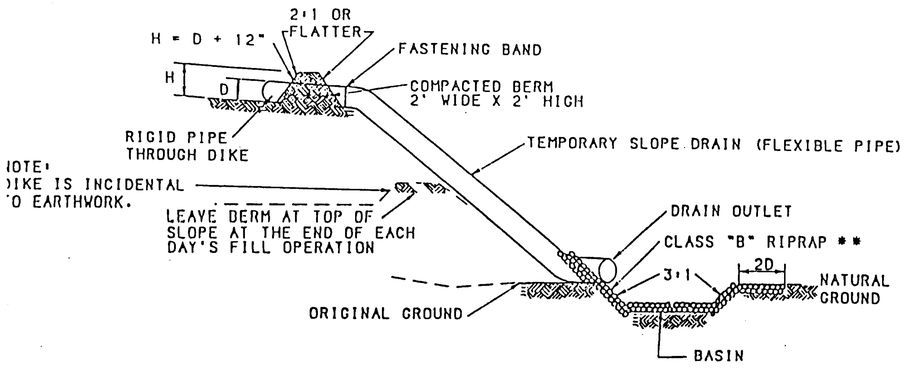
T.E.S.C.M.
SILT FENCE INSTALLATION AND CHECK DAMS

| | |
|---|---|
| LAYOUT BY | APPROVAL Raymunda L. Van Hoven |
| DRAWN BY | RECOMMENDED ENGINEER DA |
| CHECKED BY | APPROVED DESIGN BUREAU CHIEF |

DRAWING-050 SHEET [illegible]

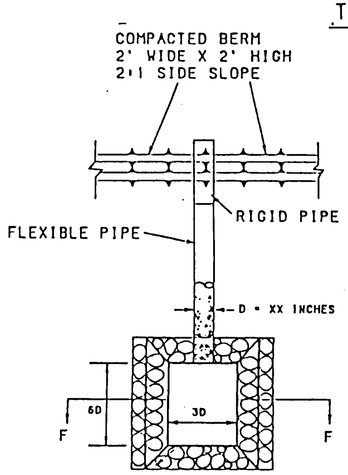
N.M. PROJECT NO. SDM-4008(208) SHEET 2-68

[illegible]TERS/ST$DRAWING-050 2/4




## TYPICAL FILL SLOPE DRAIN APPLICATION

** NOTE: CLASS "B" RIPRAP INCIDENTAL TO PLACEMENT ON TEMPORARY SLOPE DRAIN.



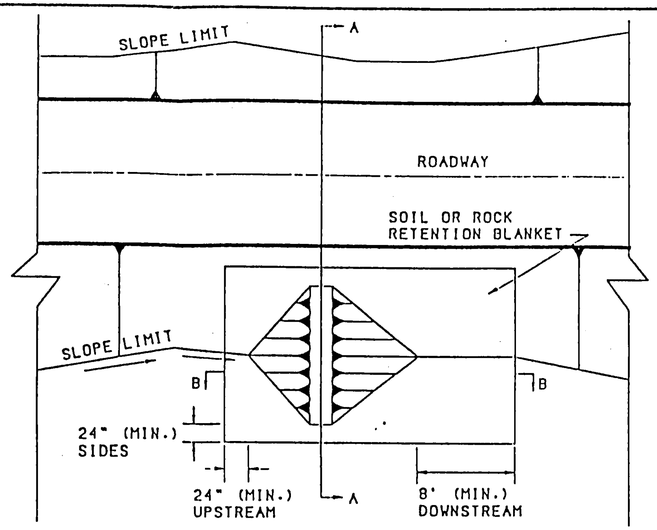

PLAN
(AT OUTLET)

SECTION F-F

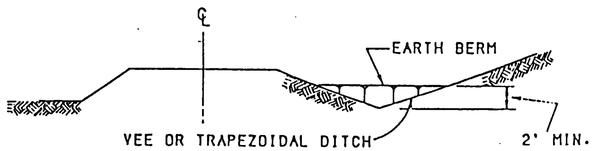
## PIPE SLOPE DRAIN

### NOTES: PIPE SLOPE DRAIN

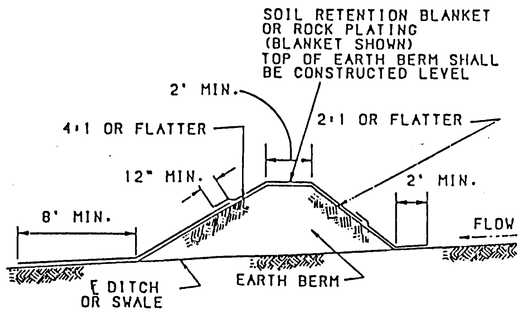
1. THE FLEXIBLE PIPE SHALL BE THE SAME DIAMETER AS THE INLET PIPE AND SHALL BE CONSTRUCTED OF A DURABLE MATERIAL WITH HOLD-DOWN GROMMETS SPACED AT 10' ON CENTER.
2. THE FLEXIBLE PIPE SHALL BE SECURELY FASTENED TO THE CORRUGATED METAL OR HIGH DENSITY POLYETHYLENE PIPE WITH METAL STRAPPING OR WATERTIGHT CONNECTING COLLARS.
3. THE FLEXIBLE PIPE SHALL BE STAKED AT 10' CENTERS ALONG THE SLOPE USING MINIMUM 4" SQUARE WOOD POSTS OR STANDARD STEEL POSTS DRIVEN 2' MINIMUM INTO THE GROUND.
4. RIGID PIPE SHALL BE ANCHORED AT BENDS. ANCHORAGE SHALL CONSIST TO A MINIMUM OF 4" SQUARE WOOD POSTS OR STANDARD STEEL POSTS DRIVEN 2' MINIMUM INTO THE GROUND OR EARTHEN THRUST BLOCK.
5. PAYMENT OF BASIN ITEMS ARE INCIDENTAL TO THE COST OF FLEXIBLE STORM DRAIN PIPE.




PLAN




SECTION A-A



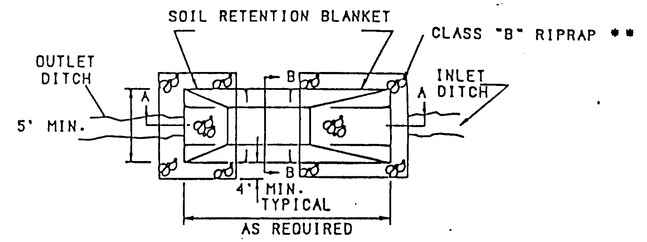

SECTION B-B

## SEDIMENT TRAP - EARTH BERM

### NOTES: SEDIMENT TRAP

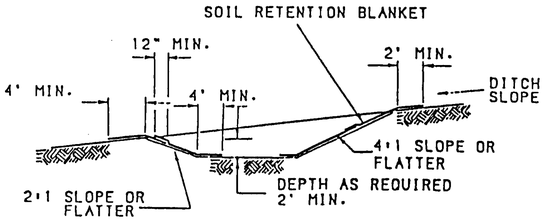
1. TEMPORARY SEDIMENT TRAPS MAY BE CONSTRUCTED BY EXCAVATION ALONE OR BY EXCAVATION IN COMBINATION WITH AN EMBANKMENT.
2. TEMPORARY SEDIMENT TRAPS ARE OFTEN USED IN CONJUNCTION WITH A DIVERSION DIKE OR SWELL.
3. THE DRAINAGE AREA FOR THE SEDIMENT TRAP SHOULD NOT EXCEED 5 DISTURBED ACRES.
4. THE TRAP MUST BE ACCESSIBLE FOR EASE OF REGULAR MAINTENANCE WHICH IS CRITICAL TO ITS FUNCTIONING PROPERLY.
5. SEDIMENT TRAPS ARE TEMPORARY MEASURES AND SHOULD NOT BE PLANNED TO REMAIN IN PLACE LONGER THAN BETWEEN 18 AND 24 MONTHS.
6. THE EMBANKMENT MAY NOT EXCEED 5' IN HEIGHT.
7. THE RECOMMENDED MINIMUM WIDTH AT THE TOP OF THE EMBANKMENT IS BETWEEN 2' AND 5'.

NEW MEXICO PROJECT NO.
F.V.H.A. REGION NO. 6

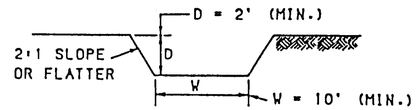



PLAN

** NOTE: CLASS "B" RIPRAP INCIDENTAL TO PLACEMENT ON TEMPORARY SEDIMENT TRAP.




SECTION A-A




SECTION B-B

## SEDIMENT TRAP (EXCAVATED)

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

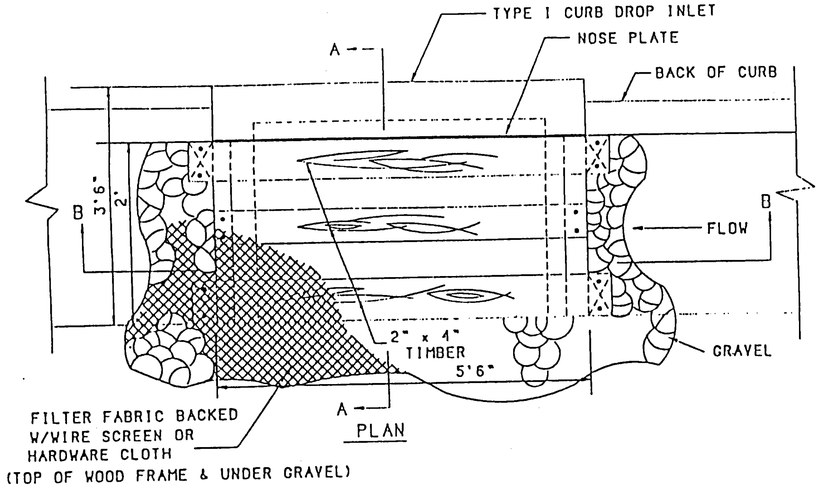
CADD

T.E.S.C.M.
PIPE SLOPE DRAIN &
SEDIMENT TRAPS

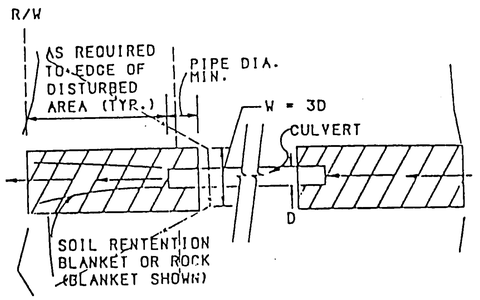
| | |
|---|---|
| LAYOUT BY | APPROVAL Raymunda G. Van Hoven 4/22/96 |
| DRAWN BY | RECOMMENDED ENGINEER DATE |
| CHECKED BY | APPROVED [illegible] 9-4-96 |
| | DESIGN BUREAU CHIEF DATE |

DRAWING-050 SHEET 7 OF

N.M. PROJECT NO. SDM-4008(208) SHEET 2-69




PLAN

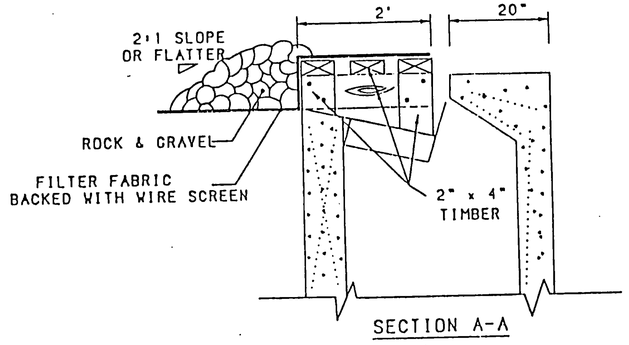



PLAN

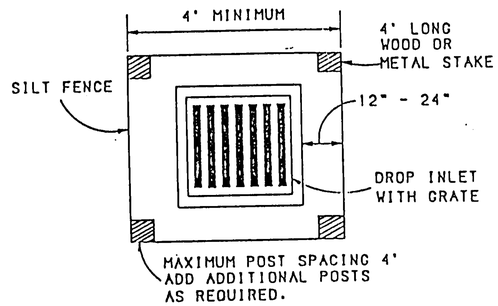
OFFSITE FLOW

## CULVERT PROTECTION NOTES:

1. WHEN CULVERT PROTECTION IS SPECIFIED, EITHER SOIL RETENTION BLANKETS OR SOIL RETENTION ROCK MAY BE PROVIDED.
2. THE CULVERT PROTECTION WIDTH REQUIRED SHALL BE IN ACCORDANCE WITH THESE DETAILS UNLESS SPECIFIED OTHERWISE.
3. THE SOIL RETENTION BLANKET INSTALLATION SHOWN OUTLINES MINIMUM REQUIREMENTS. MANUFACTURER'S RECOMMENDATIONS SHALL BE USED IF THEY ARE MORE STRINGENT.




SECTION A-A

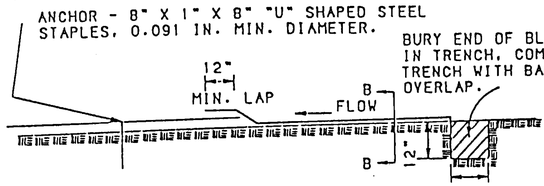



PLAN

SEE SHEET 2 OF 4 FOR CONSTRUCTION DETAILS OF SILT FENCE.

## SILT FENCE INLET PROTECTION

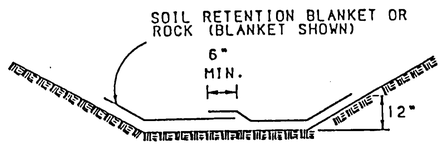
## DROP INLET PROTECTION, TYPE I




PROFILE

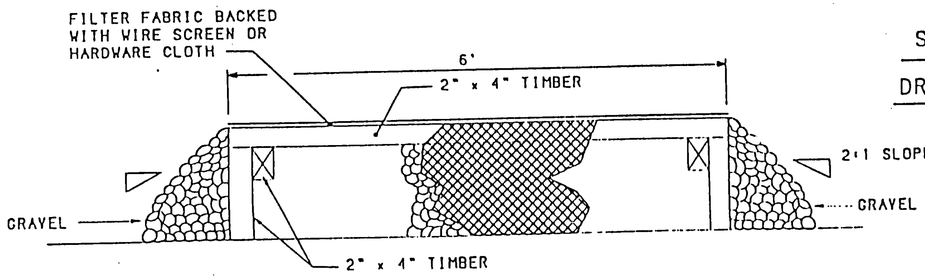



## SOIL RETENTION BLANKET STAPLE PATTERN




SECTION B-B

## SOIL RETENTION BLANKET




SECTION B-B

## GRAVEL INLET PROTECTION

## DROP INLET PROTECTION TYPE II

NOTE: GRAVEL INLET PROTECTION

1. THIS INSTALLATION IS FOR A TYPE I CURB DROP INLET ONLY. THE TYPE II, III TO "N" INSTALLATION IS SIMILAR.
2. THE SPACING OF THE LONGITUDINAL BRACING SHALL NOT EXCEED 6 FEET.

SECTION B-B

## SOIL RETENTION ROCKS

## CULVERT PROTECTION

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

CADD

DROP INLET & CULVERT PROTECTION

| | |
|---|---|
| LAYOUT BY | APPROVAL Raymundo R. Van Houten 6/24/96 |
| DRAWN BY | RECOMMENDED ENGINEER DATE |
| CHECKED BY | APPROVED DESIGN BUREAU CHIEF DATE |

DRAWING-050 SHEET 4 OF 4

N.M. PROJECT NO. SDM-4008(208) SHEET 2-70

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-71 |

# THIS SHEET INTENTIONALLY LEFT BLANK

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

B L A N K

Time: 11:4:39
Date: 4/18/1987 RKA
Drawing File: L:\PROJECTS\2816A\STD\SRB-2-71

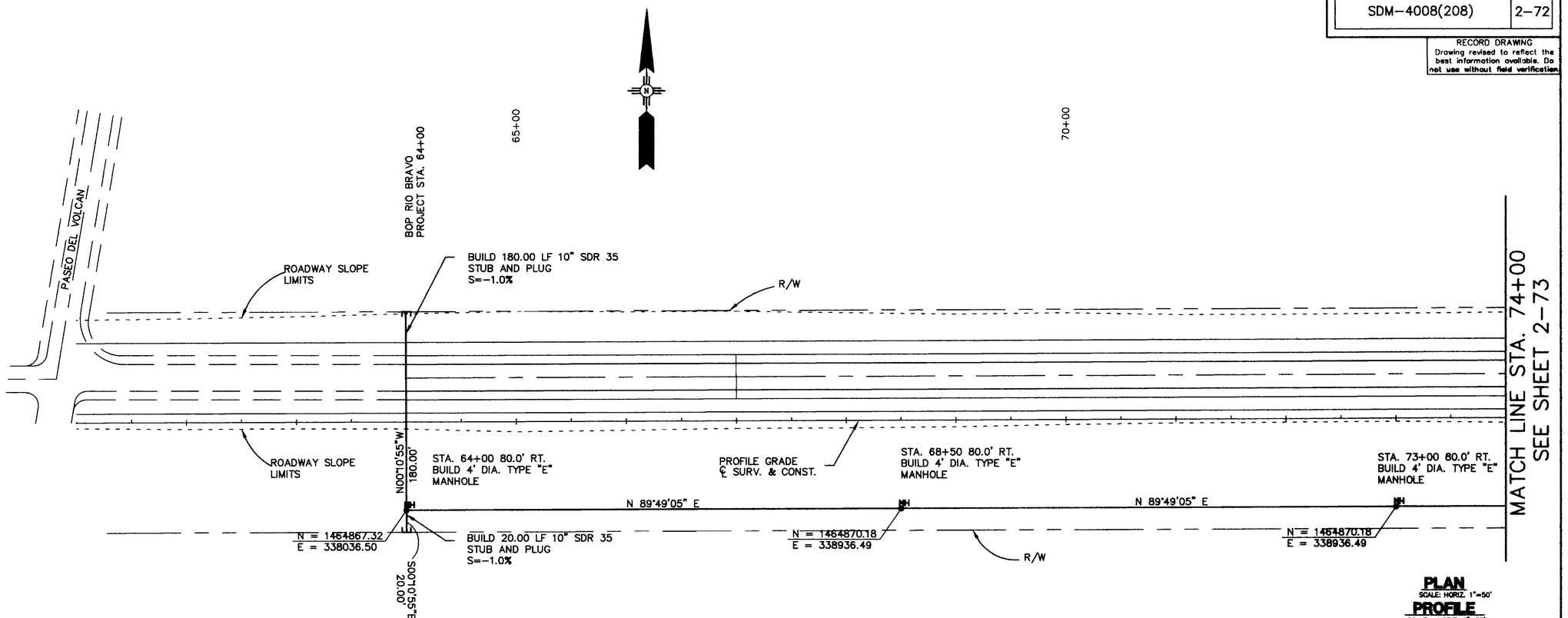
ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-71

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-72 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

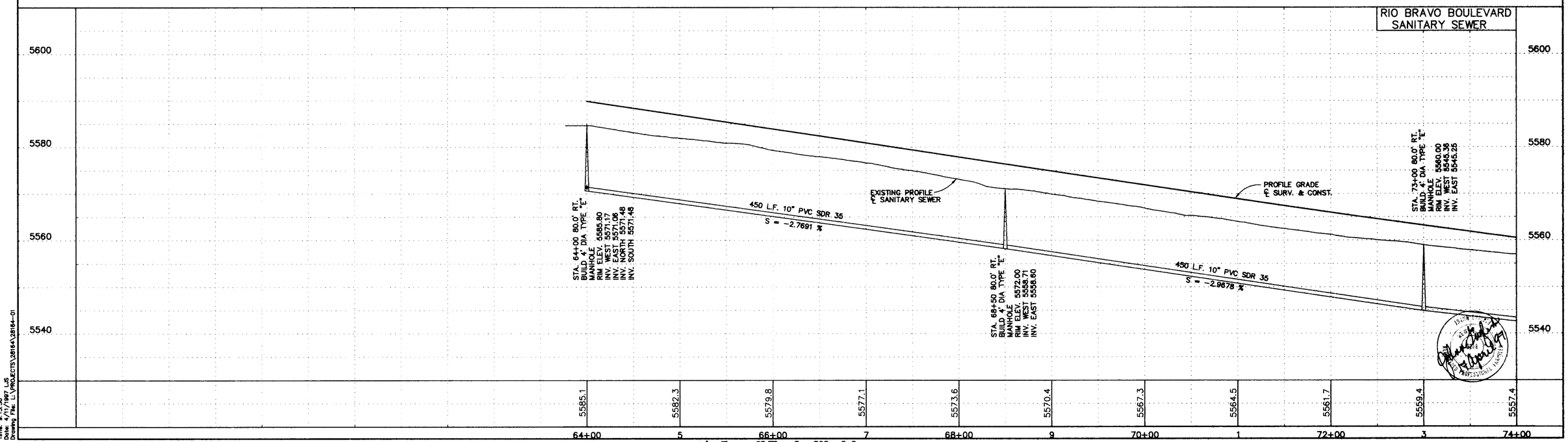



**PLAN**
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 2

RIO BRAVO BOULEVARD
SANITARY SEWER

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Date: 4/11/1997 LJS
Drawing File: L:\PROJECTS\28164\28164-01

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-72

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-73 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

75+00 80+00 85+00

MATCH LINE STA. 74+00
SEE SHEET 2-72

MATCH LINE STA. 89+50
SEE SHEET 2-74

R/W
ROADWAY SLOPE LIMITS
ROADWAY SLOPE LIMITS
R/W

STA. 77+50 80.0' RT.
BUILD 4' DIA. TYPE "E" MANHOLE
N = 1464871.61
E = 339386.49

STA. 82+00 80.0' RT.
BUILD 4' DIA. TYPE "E" MANHOLE
N = 1464873.04
E = 339836.49

PROFILE GRADE
℄ SURV. & CONST.

STA. 86+50 80.0' RT.
BUILD 4' DIA. TYPE "E" MANHOLE
N = 1464874.47
E = 340286.49

N 89°49'05" E
N 89°49'05" E
N 89°49'05" E
N 89°49'05" E

**PLAN**
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 2

RIO BRAVO BOULEVARD
SANITARY SEWER

5560
5540
5520
5500

450 L.F. 10" PVC SDR 35
S = -2.2627 %

STA. 77+50 80.0' RT.
BUILD 4' DIA TYPE "E" MANHOLE
RIM ELEV. 5550.30
INV. WEST 5535.16
INV. EAST 5535.08

450 L.F. 10" PVC SDR 35
S = -2.8030 %

STA. 82+00 80.0' RT.
BUILD 4' DIA TYPE "E" MANHOLE
RIM ELEV. 5539.40
INV. WEST 5522.58
INV. EAST 5522.45

EXISTING PROFILE
℄ SANITARY SEWER

PROFILE GRADE
℄ SURV. & CONST.

℄ ELEV.5523.71

450 L.F. 10" PVC SDR 35
S = -2.5536 %

STA. 86+50 80.0' RT.
BUILD 4' DIA TYPE "E" MANHOLE
RIM ELEV. 5527.80
INV. WEST 5511.06
INV. EAST 5510.96

450 L.F. 10" PVC SDR 35
S = -2.1980 %

5557.4 5555.6 5553.2 5551.2 5548.9 5545.6 5543.3 5540.0 5538.9 5535.8 5533.0 5530.3 5528.2 5526.2 5524.1 5521.6

74+00 5 76+00 7 78+00 9 80+00 1 82+00 3 84+00 5 86+00 7 88+00 9

Time: 9:15:31
Date: 4/11/1997 LJS
Drawing File: L:\PROJECTS\28164\28164-02

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-73

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-74 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

90+00 | 95+00 | 100+00 | 105+00

APPROXIMATE LOCATION OF PROPOSED EDUCATIONAL FACILITY

MATCH LINE STA. 89+50 SEE SHEET 2-73

MATCH LINE STA. 105+00 SEE SHEET 2-75

BUILD 196.00 LF 10" SDR 35 STUB AND PLUG S=-.6%

ROADWAY SLOPE LIMITS

R/W

N00°10'55"W 196.21

STA. 91+00 80.0' RT. BUILD 4' DIA. TYPE "E" MANHOLE

N 89°49'05" E

ROADWAY SLOPE LIMITS

STA. 95+50 80.0' RT. BUILD 4' DIA. TYPE "E" MANHOLE

PROFILE GRADE ℄ SURV. & CONST.

STA. 100+00 80.0' RT. BUILD 4' DIA. TYPE "E" MANHOLE

STA. 104+50 80.0' RT. BUILD 4' DIA. TYPE "E" MANHOLE

N = 1464875.90
E = 340736.49

S00°10'55"E 20.00'

BUILD 20.00 LF 10" SDR 35 STUB AND PLUG S=-.6%

N = 1464877.33
E = 341186.48

R/W

N = 1464878.76
E = 341636.48

N = 1464880.19
E = 342086.48

**PLAN**
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 2

RIO BRAVO BOULEVARD SANITARY SEWER

5520 | 5500 | 5480 | 5460

STA. 91+00 80.0' RT.
BUILD 4' DIA TYPE "E" MANHOLE
RIM ELEV. 5516.30
INV. WEST 5501.16
INV. EAST 5501.08
INV. NORTH 5501.58
INV. SOUTH 5501.58

450 L.F. 12" PVC SDR 35
S = -2.0900 %

STA. 95+50 80.0' RT.
BUILD 4' DIA TYPE "E" MANHOLE
RIM ELEV. 5504.80
INV. WEST 5491.75
INV. EAST 5491.89

EXISTING PROFILE ℄ SANITARY SEWER

450 L.F. 15" PVC SDR 35
S = -0.8847 %

PROFILE GRADE ℄ SURV. & CONST.

STA. 100+00 80.0' RT.
BUILD 4' DIA TYPE "E" MANHOLE
RIM ELEV. 5498.00
INV. WEST 5487.75
INV. EAST 5487.72

450 L.F. 15" PVC SDR 35
S = -0.6657 %

STA. 104+50 80.0' RT.
BUILD 4' DIA TYPE "E" MANHOLE
RIM ELEV. 5494.00
INV. WEST 5484.75
INV. EAST 5484.72

| 5518.8 | 5515.7 | 5512.9 | 5510.4 | 5507.8 | 5505.5 | 5503.3 | 5501.5 | 5499.8 | 5498.7 | 5497.5 | 5496.3 | 5496.0 | 5494.7 | 5494.1 | 5492.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 90+00 | 1 | 92+00 | 3 | 94+00 | 5 | 96+00 | 7 | 98+00 | 9 | 100+00 | 1 | 102+00 | 3 | 104+00 | 5 |

Time: 9:17:36
Date: 4/11/1997 LJS
Drawing File: L:\PROJECTS\28164\28164-03

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-74

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-75 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

110+00 115+00 120+00

APPROXIMATE LOCATION OF PROPOSED EDUCATIONAL FACILITY

MATCH LINE STA. 105+00 SEE SHEET 2-74

MATCH LINE STA. 120+50 SEE SHEET 2-76

R/W

ROADWAY SLOPE LIMITS

N 76°56'35" E

N 89°49'05" E

N = 1464961.30
E = 342436.22

STA. 108+00 0.0' RT.
BUILD 4' DIA. TYPE "E" MANHOLE

N = 1464962.73
E = 342886.22

STA. 112+50 0.0' RT.
BUILD 4' DIA. TYPE "E" MANHOLE

PROFILE GRADE ℄ SURV. & CONST.

N = 1464964.16
E = 343336.22

STA. 117+00 0.0' RT.
BUILD 4' DIA. TYPE "E" MANHOLE

BUILD 122.00 LF 10" SDR 35 STUB AND PLUG S=-.6%

N00°10'55"W 121.70'

S00°10'55"E 100.00'

BUILD 100.00 LF 10" SDR 35 STUB AND PLUG S=-.6%

**PLAN**
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 2

RIO BRAVO BOULEVARD SANITARY SEWER

PROFILE GRADE ℄ SURV. & CONST.

EXISTING PROFILE ℄ SANITARY SEWER

+.3269%

+0.3269%

350 L.F. 15" PVC SDR 35
S = -0.7060 %

450 L.F. 15" PVC SDR 35
S = -0.6062 %

℄ ELEV. 5485.79

450 L.F. 15" PVC SDR 35
S = -0.5888 %

450 L.F. 15" PVC SDR 35
S = -0.6400 %

STA. 108+00 0.0' RT.
BUILD 4' DIA TYPE "E" MANHOLE
RIM ELEV. 5493.52
INV. WEST 5482.28
INV. EAST 5482.25

STA. 112+50 0.0' RT.
BUILD 4' DIA TYPE "E" MANHOLE
RIM ELEV. 5493.29
INV. WEST 5479.55
INV. EAST 5479.52

STA. 117+00 0.0' RT.
BUILD 4' DIA TYPE "E" MANHOLE
RIM ELEV. 5494.76
INV. WEST 5476.94
INV. EAST 5476.92
INV. NORTH 5477.55
INV. SOUTH 5477.55

5500 5480 5460 5440

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5492.8 | 5491.0 | 5489.2 | 5487.9 (5491.82) | (5491.98) | 5487.4 (5492.14) | (5492.31) | 5486.5 (5492.47) | (5492.63) | 5486.1 (5492.80) | (5492.96) | 5486.6 (5493.12) | 5486.2 5493.45 | 5485.9 5493.78 | 5485.9 5494.11 | 5486.2 5494.43 | 5486.6 5494.76 | 5486.7 5495.09 | 5487.1 5495.41 | 5487.1 5495.74 | | | | | |
| 5 | 106+00 | 7 | 108+00 | | 199 | | 110+00 | | 1 | | 112+00 | 3 | 114+00 | 5 | 116+00 | 7 | 118+00 | 9 | 120+00 | | | | | |

Time: 8:19:46
Date: 4/11/1997 LJS
Drawing File: L:\PROJECTS\28164\28164-04

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-75

| F.H.W.A. REGION NO. 6 / NEW MEXICO PROJECT NO. | SHEET NO. |
| --- | --- |
| SDM-4008(208) | 2-76 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

Time: 9:24:39
Date: 4/11/1997 LJS
Drawing File: L:\PROJECTS\28164\28164-05

ENGR. FILE : ____________

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-76

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-77 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

140+00 | 145+00 | 150+00

R/W

BUILD 200.00 LF 8" SDR 35
STUB AND PLUG
S=-.6%

N00°10'55"W
200.00

ROADWAY SLOPE LIMITS

MATCH LINE STA 136+00
SEE SHEET 2-76

N89°49'05"E

N = 1464971.31
E = 345586.21

STA. 139+50 0.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

PROFILE GRADE
℄ SURV. & CONST.

N = 1464972.74
E = 346037.21

STA. 144+00 0.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

S77°18'25"E

STA. 147+50 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

ROADWAY SLOPE LIMITS

N89°49'05"E

N = 1464893.85
E = 346386.46

S00°10'55"E
200.00

BUILD 200.00 LF 8" SDR 35
STUB AND PLUG
S=-.6%

MATCH LINE STA 151+50
SEE SHEET 2-78

R/W

**PLAN**
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 2

RIO BRAVO BOULEVARD
SANITARY SEWER

PROFILE GRADE
℄ SURV. & CONST.

EXISTING PROFILE
℄ SANITARY SEWER

450 LF. 12" PVC SDR 35
S=-4.1382 %

450 LF. 12" PVC SDR 35
-5.5910 %

STA. 139+50 0.0' RT.
BUILD 4' DIA TYPE "E"
MANHOLE
RIM ELEV. 5459.05
INV. WEST 5442.07
INV. EAST 5441.86

STA. 144+00 0.0' RT.
BUILD 4' DIA TYPE "E"
MANHOLE
RIM ELEV. 5433.99
INV. WEST 5416.93
INV. EAST 5416.89
INV. NORTH 5417.19
INV. SOUTH 5417.19

PROFILE GRADE
℄ SURV. & CONST.

350 LF. 12" PVC SDR 35
S = -6.4088 %

EXISTING PROFILE
℄ SANITARY SEWER

STA. 147+50 80.0' RT.
BUILD 4' DIA TYPE "E"
MANHOLE
RIM ELEV. 5410.21
INV. WEST 5394.51
INV. EAST 5394.28

450 LF. 12" PVC SDR 35
S = -6.3486 %

| | 5470 | 5450 | 5430 | 5410 |
|---|---|---|---|---|
| 5507.7 (5481.99) | | | | |
| (5478.99) | | | | |
| 5493.9 (5475.99) | | | | |
| 5468.21 | | | | |
| 5487.3 (5469.99) | | | | |
| 5463.79 | | | | |
| 5482.4 (5463.99) | | | | |
| 5459.05 | | | | |
| 5477.6 (5457.99) | | | | |
| 5454.00 | | | | |
| 5456.9 (5451.99) | | | | |
| 5448.63 | | | | |
| 5450.3 (5445.99) | | | | |
| 5442.95 | | | | |
| 5444.2 (5439.99) | | | | |
| 5435.2 (5433.99) | | | | |
| 5429.7 | | | | |
| 5421.3 | | | | |
| 5412.4 | | | | |
| 5407.3 | | | | |
| 5411.4 | | | | |
| 5403.6 | | | | |
| 5388.8 | | | | |
| 36+00 | 7 | 138+00 | 9 | 140+00 |
| 1 | 142+00 | 3 | 144+00 | 5 |
| 146+00 | 7 | 148+00 | 9 | 150+00 |
| 1 | | | | |

| | 5440 | 5420 | 5400 | 5380 |
|---|---|---|---|---|

Time: 9:28:37
Date: 4/11/1997 LJS
Drawing File: L:\PROJECTS\26194\26164-06

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-77

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-78 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

155+00 160+00 165+00

MATCH LINE STA 151+50
SEE SHEET 2-77

MATCH LINE STA 167+00
SEE SHEET 2-79

BUILD 230.00 LF 8" SDR 35
STUB AND PLUG
S=-.6%

R/W

ROADWAY SLOPE LIMITS

BUILD 230.00 LF 8" SDR 35
STUB AND PLUG
S=-.6%

N00°10'55"W 230'

STA. 152+00 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE
N = 1464895.28
E = 346836.46

N89°49'05"E

STA. 156+50 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

PROFILE GRADE
℄ SURV. & CONST.

ROADWAY SLOPE LIMITS

N00°10'55"W 229.96'

STA. 161+00 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

N89°49'05"E

STA. 165+50 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

S 00°10'55" E 20.77 FT

BUILD 21.00 LF 8" SDR 35
STUB AND PLUG
S=-.6%

N = 1464896.71
E = 347286.45

R/W

N = 1464898.13
E = 347736.45

S 00°10'55" E 21.76 FT

BUILD 22.00 LF 8" SDR 35
STUB AND PLUG
S=-.6%

N = 1464899.57
E = 348186.45

**PLAN**
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 2

RIO BRAVO BOULEVARD
SANITARY SEWER

PROFILE GRADE
℄ SURV. & CONST.

EXISTING PROFILE
℄ SANITARY SEWER

STA. 152+00 80.0' RT.
BUILD 4' DIA TYPE "E"
MANHOLE
RIM ELEV. 5386.09
INV. WEST 5365.85
INV. EAST 5365.69
INV. NORTH 5366.19
INV. SOUTH 5366.19

450 LF. 12" PVC SDR 35
S = -6.8117 %

STA. 156+50 80.0' RT.
BUILD 4' DIA TYPE "E"
MANHOLE
RIM ELEV. 5352.45
INV. WEST 5335.31
INV. EAST 5335.04

450 LF. 12" PVC SDR 35
S = -6.7414 %

PROFILE GRADE
℄ SURV. & CONST.

EXISTING PROFILE
℄ SANITARY SEWER

STA. 161+00 80.0' RT.
BUILD 4' DIA TYPE "E"
MANHOLE
RIM ELEV. 5324.00
INV. WEST 5304.77
INV. EAST 5304.63
INV. NORTH 5305.23
INV. SOUTH 5305.23

450 LF. 12" PVC SDR 35
S = -4.9698 %

STA. 165+50 80.0' RT.
BUILD 4' DIA TYPE "E"
MANHOLE
RIM ELEV. 5304.63
INV. WEST 5282.57
INV. EAST 5282.37

| | 5370 | 5350 | 5330 | 5310 | | 5320 | 5300 | 5280 | 5260 |
|---|---|---|---|---|---|---|---|---|---|
| | 5385.6 | 5378.1 | 5369.8 | 5362.8 | 5356.3 | 5347.9 | 5340.1 | 5333.4 | 5327.1 | 5324.0 | 5318.2 | 5313.3 | 5307.0 | 5308.9 | 5300.8 | 5295.2 |
| | 152+00 | 3 | 154+00 | 5 | 156+00 | 7 | 158+00 | 9 | 160+00 | 1 | 162+00 | 3 | 164+00 | 5 | 166+00 | 7 |

Time: 9:28:24
Date: 4/11/1997 LJE
Drawing File: L:\PROJECTS\28164\28164-07

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-78

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-79 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

170+00 | 175+00 | 180+00

MATCH LINE STA 167+00
SEE SHEET 2-78

MATCH LINE STA 182+50
SEE SHEET 2-80

BUILD 230.00 LF 8" SDR 35
STUB AND PLUG
S=-.6%

R/W

ROADWAY SLOPE LIMITS

PROFILE GRADE
℄ SURV. & CONST.

STA. 170+00 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

STA. 174+50 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

STA. 179+00 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

N00°10'55"W 229.96'

N89°49'05"E

N = 1464900.99
E = 348636.45

S 00°10'55" E 22.75 FT

BUILD 23.00 LF 8" SDR 35
STUB AND PLUG
S=-.6%

N = 1464902.42
E = 349086.45

N = 1464903.85
E = 349536.44

N00°10'55"W 230'

S 00°10'55" E 23.73 FT

BUILD 24.00 LF 8" SDR 35
STUB AND PLUG
S=-.6%

**PLAN**
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 2

RIO BRAVO BOULEVARD
SANITARY SEWER

5280 | 5260 | 5240 | 5220

450 LF. 12" PVC SDR 35
S = -4.9351 %

EXISTING PROFILE
℄ SURV. & CONST.

EXISTING PROFILE
℄ SANITARY SEWER

STA. 170+00 80.0' RT.
BUILD 4' DIA TYPE "E"
MANHOLE
RIM ELEV. 5277.55
INV. WEST 5260.37
INV. EAST 5260.14
INV. NORTH 5260.84
INV. SOUTH 5260.84

450 LF. 12" PVC SDR 35
S = -8.3632 %

STA. 174+50 80.0' RT.
BUILD 4' DIA TYPE "E"
MANHOLE
RIM ELEV. 5246.10
INV. WEST 5231.76
INV. EAST 5231.50

450 LF. 12" PVC SDR 35
S = -6.8513 %

STA. 179+00 80.0' RT.
BUILD 4' DIA TYPE "E"
MANHOLE
RIM ELEV. 5226.26
INV. WEST 5200.94
INV. EAST 5200.73
INV. NORTH 5201.36
INV. SOUTH 5201.36

450 LF. 15" PVC SDR 35
S = -3.5225 %

5250 | 5230 | 5210 | 5190

5295.2 | 5289.7 | 5285.7 | 5277.1 | 5266.6 | 5259.9 | 5254.7 | 5248.3 | 5243.5 | 5239.1 | 5235.0 | 5229.6 | 5226.9 | 5220.5 | 5215.4 | 5209.7

7 | 168+00 | 9 | 170+00 | 1 | 172+00 | 3 | 174+00 | 5 | 176+00 | 7 | 178+00 | 9 | 180+00 | 1 | 182+00

Time: 8:31:37
Date: 4/11/1997 LJS
Drawing File: L:\PROJECTS\2816A\28184-08

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-79

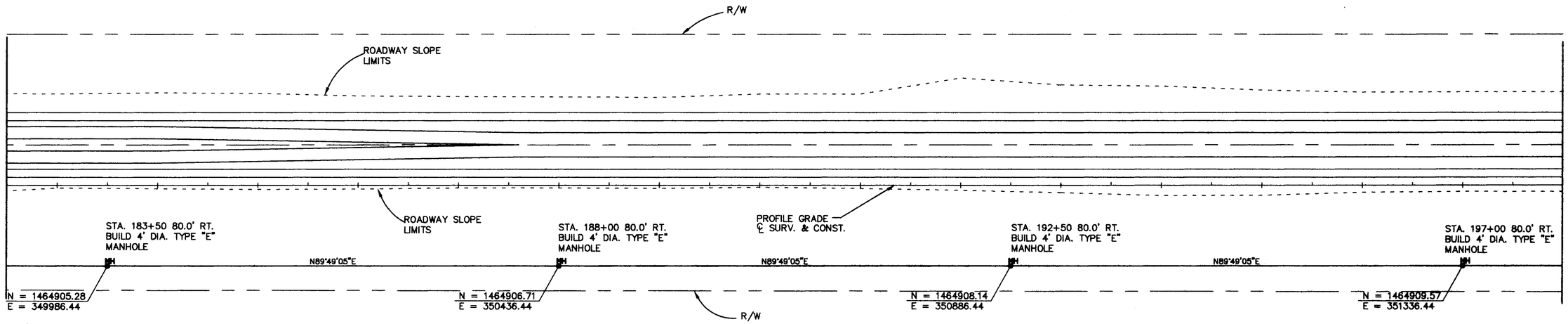
| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-80 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

185+00 190+00 195+00

MATCH LINE STA 182+50
SEE SHEET 2-79

MATCH LINE STA 198+00
SEE SHEET 2-81

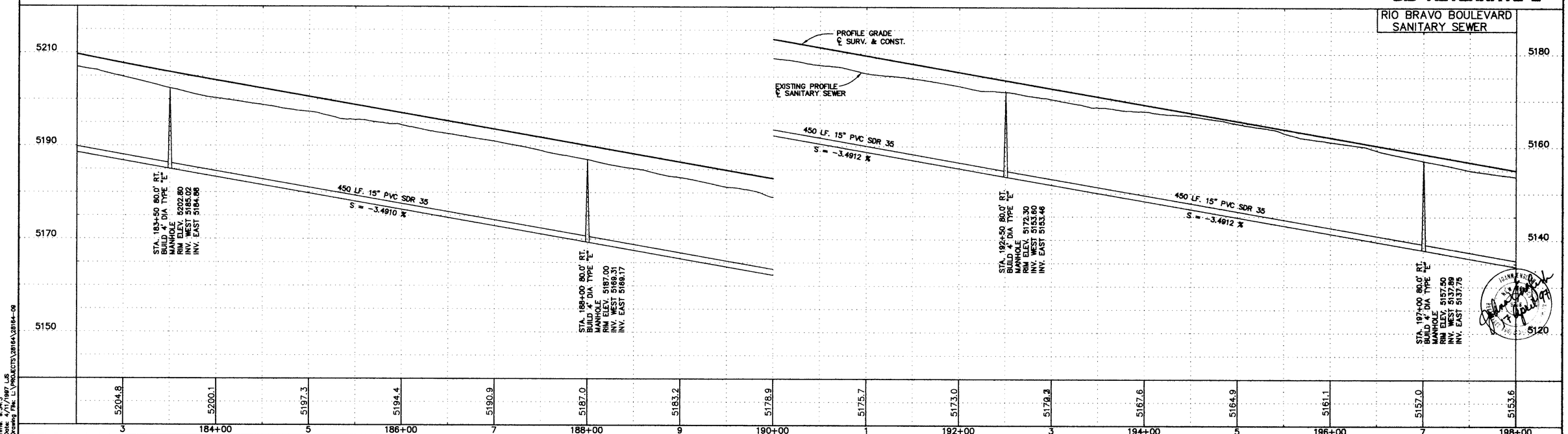



**PLAN**
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 2

RIO BRAVO BOULEVARD
SANITARY SEWER




Time: 9:34:3
Date: 4/17/1997 LJS
Drawing File: L:\PROJECTS\28164\28164-09

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-80

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-81 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

200+00 205+00 210+00

MATCH LINE STA 198+00
SEE SHEET 2-80

MATCH LINE STA 213+50
SEE SHEET 2-82

R/W

BUILD 230.00 LF 10" SDR 35
STUB AND PLUG
S=-.6%

ROADWAY SLOPE LIMITS

PROFILE GRADE
℄ SURV. & CONST.

STA. 201+50 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

STA. 206+00 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

STA. 210+50 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

N89°49'05"E

N = 1464910.99
E = 351786.43

N = 1464912.43
E = 352236.43

N = 1464913.86
E = 352686.43

N00°11'11"W
230'

S 00°10'55" E
28.82 FT

BUILD 27.00 LF 10" SDR 35
STUB AND PLUG
S=-.6%

**PLAN**
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 2

RIO BRAVO BOULEVARD
SANITARY SEWER

PROFILE GRADE
℄ SURV. & CONST.

EXISTING PROFILE
℄ SANITARY SEWER

450 LF. 15" PVC SDR 35
S = -3.4912 %

450 LF. 15" PVC SDR 35
S = -3.4599 %

450 LF. 15" PVC SDR 35
S = -3.0143 %

450 LF. 15" PVC SDR 35
S = -3.0442 %

STA. 201+50 80.0' RT.
BUILD 4' DIA TYPE "E"
MANHOLE
RIM ELEV. 5142.00
INV. WEST 5122.15
INV. EAST 5122.04

STA. 206+00 80.0' RT.
BUILD 4' DIA TYPE "E"
MANHOLE
RIM ELEV. 5123.71
INV. WEST 5108.61
INV. EAST 5108.48
INV. NORTH 5107.11
INV. SOUTH 5107.11

STA. 210+50 80.0' RT.
BUILD 4' DIA TYPE "E"
MANHOLE
RIM ELEV. 5110.86
INV. WEST 5093.04
INV. EAST 5092.91

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5160 | | | | | | | | | | | | | | | | | | | | | | | | 5130 |
| 5140 | | | | | | | | | | | | | | | | | | | | | | | | 5110 |
| 5120 | | | | | | | | | | | | | | | | | | | | | | | | 5090 |
| 5100 | | | | | | | | | | | | | | | | | | | | | | | | 5070 |
| | 5153.6 | | 5150.3 | | 5146.7 | | 5143.4 | | 5139.8 | | 5135.7 | | 5131.6 | | 5127.2 | | 5123.2 | | 5120.3 | | 5116.5 | | 5114.8 | | 5111.7 | | 5109.1 | | 5106.7 | | 5103.8 | |
| 198+00 | | 9 | | 200+00 | | 1 | | 202+00 | | 3 | | 204+00 | | 5 | | 206+00 | | 7 | | 208+00 | | 9 | | 210+00 | | 1 | | 212+00 | | 3 | |

Time: 9:38:1
Date: 4/11/1997 LJS
Drawing File: L:\PROJECTS\28164\28164-10

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-81

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-82 |

**RECORD DRAWING**
Drawing revised to reflect the best information available. Do not use without field verification.

215+00 220+00 225+00

MATCH LINE STA 213+50
SEE SHEET 2-81

MATCH LINE STA 229+00
SEE SHEET 2-83

R/W

ROADWAY SLOPE LIMITS

ROADWAY SLOPE LIMITS

PROFILE GRADE ℄ SURV. & CONST.

STA. 215+00 80.0' RT.
BUILD 4' DIA. TYPE "E" MANHOLE
N = 1464913.47
E = 353135.21

STA. 219+50 80.0' RT.
BUILD 4' DIA. TYPE "E" MANHOLE
N = 1464917.83
E = 353584.92

STA. 224+00 80.0' RT.
BUILD 4' DIA. TYPE "E" MANHOLE
N = 1464917.05
E = 354034.28

STA. 228+50 80.0' RT.
BUILD 4' DIA. TYPE "E" MANHOLE
N = 1464915.47
E = 354484.23

N89°49'05"E N89°49'05"E N89°49'05"E

R/W

**PLAN**
SCALE: HORIZ. 1"=50'

**AS-BUILT**

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

**BID ALTERNATE 2**

RIO BRAVO BOULEVARD
SANITARY SEWER

PROFILE GRADE ℄ SURV. & CONST.

EXISTING PROFILE ℄ SANITARY SEWER

450 LF. 15" PVC SDR 35
S = -3.0443 %

450 LF. 15" PVC SDR 35
S = -3.0442 %

PROFILE GRADE ℄ SURV. & CONST.

EXISTING PROFILE ℄ SANITARY SEWER

450 LF. 15" PVC SDR 35
S = -3.0442 %

STA. 215+00 80.0' RT.
BUILD 4' DIA. TYPE "E" MANHOLE
RIM ELEV. 5087.05
INV. WEST 5079.34
INV. EAST 5079.22

STA. 219+50 80.0' RT.
BUILD 4' DIA. TYPE "E" MANHOLE
RIM ELEV. 5080.42
INV. WEST 5066.64
INV. EAST 5065.52

STA. 224+00 80.0' RT.
BUILD 4' DIA. TYPE "E" MANHOLE
RIM ELEV. 5067.74
INV. WEST 5051.94
INV. EAST 5051.82

STA. 228+50 80.0' RT.
BUILD 4' DIA. TYPE "E" MANHOLE
RIM ELEV. 5056.81
INV. WEST 5038.24
INV. EAST 5038.12

5100 5080 5060 5040

5070 5050 5030 5010

5100.1 5096.3 5092.3 5088.3 5084.5 5080.5 5077.7 5074.3 5071.9 5069.4 5066.1 5063.6 5061.2 5058.9 5056.5 5053.6

214+00 5 216+00 7 218+00 9 220+00 1 222+00 3 224+00 5 226+00 7 228+00 9

Time: 10:39:48
Date: 4/30/1999 BRS
Drawing File: K:\PROJECTS\28164\Asbuilts\28164-11.dwg

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-82

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-83 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

230+00 235+00 240+00

MATCH LINE STA 229+00
SEE SHEET 2-82

MATCH LINE STA 244+50
SEE SHEET 2-84

BUILD 232.00 LF 10" SDR 35
STUB AND PLUG
S=-.6%

R/W

PROFILE GRADE
℄ SURV. & CONST.

N00°14'31"W
232'

STA. 233+00 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

N89°49'05"E

N = 1464922.96
E = 354934.05

S 00°10'55" E
23.11 FT

BUILD 23.00 LF 10" SDR 35
STUB AND PLUG
S=-.6%

R/W

STA. 237+50 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

N89°49'05"E

N = 1464919.82
E = 355386.23

STA. 242+00 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

N89°49'05"E

N = 1464923.89
E = 355837.19

N89°49'05"E

**AS-BUILT**

**PLAN**
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 2

RIO BRAVO BOULEVARD
SANITARY SEWER

PROFILE GRADE
℄ SURV. & CONST.

EXISTING PROFILE
℄ SANITARY SEWER

450 LF. 15" PVC SDR 35
S = -3.0170 %

450 LF. 18" PVC SDR 35
S = -1.8175 %

STA. 233+00 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE
RIM ELEV. 5047.14
INV. WEST 5024.66
INV. EAST 5024.42
INV. NORTH 5025.17
INV. SOUTH 5025.17

STA. 237+50 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE
RIM ELEV. 5033.42
INV. WEST 5016.39
INV. EAST 5016.24

PROFILE GRADE
℄ SURV. & CONST.

EXISTING PROFILE
℄ SANITARY SEWER

450 LF. 18" PVC SDR 35
S = -1.8013 %

450 LF. 18" PVC SDR 35
S = -1.8176 %

STA. 242+00 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE
RIM ELEV. 5021.37
INV. WEST 5008.14
INV. EAST 5008.14

| | 5060 | 5040 | 5020 | 5000 | 5040 | 5020 | 5000 | 4980 |
|---|---|---|---|---|---|---|---|---|
| | 5053.6 | 5051.6 | 5049.9 | 5047.7 | 5045.7 | 5042.4 | 5039.6 | 5036.5 |
| 9 | 230+00 | 1 | 232+00 | 3 | 234+00 | 5 | 236+00 | 7 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 5033.6 | 5029.9 | 5027.7 | 5024.8 | 5023.0 | 5020.9 | 5018.4 | 5015.9 | |
| 238+00 | 9 | 240+00 | 1 | 242+00 | 3 | 244+00 | | |

Time: 10:54:6
Date: 4/30/1999 BRS
Drawing File: K:\PROJECTS\28164\Asbuilts\28164-12.dwg

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-83

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-84 |

**RECORD DRAWING**
Drawing revised to reflect the best information available. Do not use without field verification.

245+00 250+00 255+00

MATCH LINE STA 244+50
SEE SHEET 2-83

MATCH LINE STA 260+00
SEE SHEET 2-85

R/W

STA. 246+50 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

STA. 251+00 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

ROADWAY SLOPE LIMITS

STA. 255+50 50.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

N00°10'55"W

PROFILE GRADE
℄ SURV. & CONST.

ROADWAY SLOPE LIMITS

N = 1464923.91
E = 356286.56

N89°49'05"E

N = 1464928.44
E = 356737.16

N86°00'14"E

N = 1464958.15
E = 357186.31

62.21'

N89°49'05"E

N = 1464959.58
E = 357636.31

R/W

**AS-BUILT**

**PLAN**
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 2

RIO BRAVO BOULEVARD
SANITARY SEWER

5020
5000
4980
4960

PROFILE GRADE
℄ SURV. & CONST.

EXISTING PROFILE
℄ SANITARY SEWER

450 LF. 18" PVC SDR 35
S = -1.8175 %

STA. 246+50 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE
RIM ELEV. 5011.06
INV. EAST 4999.96

451 LF. 18" PVC SDR 35
S = -1.8175 %

STA. 251+00 80.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE
RIM ELEV. 5002.30
INV. EAST 4991.78

450 LF. 18" PVC SDR 35
S = -1.8175 %

STA. 255+50 50.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE
RIM ELEV. 4995.95
INV. EAST 4983.60

PROFILE GRADE
℄ SURV. & CONST.

EXISTING PROFILE
℄ SANITARY SEWER

5014.7 5012.2 5009.7 5008.0 5005.5 5003.3 5001.8 5000.4 4999.1 4998.2 4996.6 4995.7 4995.3 4993.6 4991.9 4992.5

5 246+00 7 248+00 9 250+00 1 252+00 3 254+00 5 256+00 7 258+00 9 260+00

Time: 11:30:23
Date: 4/30/1999 BRS
Drawing File: K:\PROJECTS\28164\Asbuilts\28164-13.dwg

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-84

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-85 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

MATCH LINE STA 260+00
SEE SHEET 2-84

MATCH LINE STA 275+50
SEE SHEET 2-86

BID ALTERNATE 2 | BASE BID

STA. 267+63

260+00 | 265+00 | 270+00

BUILD 204.00 LF 12" SDR 35
STUB AND PLUG
S=-.6%

MEADE AVE.

R/W

CONDERSHIRE DR.

204'

STA. 260+00 50.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

STA. 264+00 0.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

ROADWAY SLOPE LIMITS

STA. 268+50 0.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

STA. 272+50 6.5' LT.
BUILD 4' DIA. TYPE "E"
MANHOLE

STA. 274+50 6.5' LT.
BUILD 4' DIA. TYPE "E"
MANHOLE

N89°49'05"E

N88°53'14"E

N82°41'35"E

62.21'

N = 1465011.67
E = 358035.33

N = 1465011.76
E = 358410.77

PROFILE GRADE
℄ SURV. & CONST.

N = 1465020.05
E = 358886.14

N = 1465020.68
E = 359086.14

FRONTAGE RD.

ROADWAY SLOPE LIMITS

AMOLE ARROYO

BUILD 50.00 LF 12" SDR 35
STUB AND PLUG
S=-.6%

R/W

AS-BUILT

**PLAN**
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 2 & BASE BID

RIO BRAVO BOULEVARD
SANITARY SEWER

BID ALTERNATE 2 | BASE BID

STA. 267+63

EXISTING PROFILE
℄ SANITARY SEWER

PROFILE GRADE
℄ SURV. & CONST.

-2.0000%

403 LF. 21" PVC SDR 35
S = -0.9402 %

365 LF. 21" PVC SDR 35
S = -0.9313 %

475 LF. 21" PVC SDR 35
S = -0.7551 %

200 LF. 18" DIP
S=-2.0000 %

10 LF. 21" PVC SDR 35
W/ END CAP (BASE BID)

13.2'

STA. 260+00 50.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE
RIM ELEV. 4992.42
INV. WEST 4975.25
INV. EAST 4975.25
INV. NORTH 4976.13
INV. SOUTH 4976.13

STA. 264+00 0.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE
RIM ELEV. 4987.14
INV. WEST 4971.49
INV. EAST 4971.49

STA. 267+75 0.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE
RIM ELEV. 4980.14
INV. WEST 4968.00
INV. EAST 4968.00

STA. 272+50 6.5' LT.
BUILD 4' DIA. TYPE "E"
MANHOLE
RIM ELEV. 4970.73
INV. WEST 4964.44
INV. EAST 4964.39

STA. 274+50 6.5' LT.
BUILD 4' DIA. TYPE "E"
MANHOLE
RIM ELEV. 4966.72
INV. WEST 4960.47
INV. EAST 4960.38

5000 | 4980 | 4960 | 4940

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4992.5 | | 4990.9 | | 4990.8 | | 4988.0 | | (4988.95) | | 4987.9 | (4987.95) | | (4986.95) | | 4986.0 | (4985.95) | | (4984.948) | | 4985.0 | (4983.95) | | (4982.95) | | 4986.1 | (4981.95) | | 4987.4 | 4979.95 | | 4988.7 | 4977.95 | | 4986.2 | 4975.95 |
| 260+00 | | 1 | | 262+00 | | 3 | | | | 264+00 | | | | | 5 | | | 266+00 | | | | | | | | 7 | | | 268+00 | | | 9 | | | 270+00 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4986.7 | 4969.95 | | 4981.1 | 4973.95 | | 4971.4 | 4971.95 | | 4950.3 | 4969.95 | | 4948.0 | 4967.95 | | 4944.3 | 4965.95 |
| 1 | | | 272+00 | | | 3 | | | 274+00 | | | 5 | | | | |

Time: 11:47:27
Date: 4/30/1999 BRS
Drawing File: K:\PROJECTS\28164\Labuilts\28164-14.dwg

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-85

| F.H.W.A. REGION NO. 6 NEW MEXICO PROJECT NO. | SHEET NO. |
|---|---|
| SDM-4008(208) | 2-86 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

Time: 13:10:51
Date: 4/30/1999 BRS
Drawing File: K:\PROJECTS\28164\Asbuilts\28164-15.dwg

ENGR. FILE : ____________

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-86

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 2-87 |

**RECORD DRAWING**
Drawing revised to reflect the best information available. Do not use without field verification.

MATCH LINE STA 291+00
SEE SHEET 2-86

295+00

300+00

R/W

ROADWAY SLOPE LIMITS

STA. 291+00 20.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

STA. 295+50 40.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

STA. 297+75.68 35.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

STA. 298+37.31 65.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE

P10-171

N65°39'06"E

N = 1465583.00
E = 360608.93

PROFILE GRADE
℄ SURV. & CONST.

N = 1465767.75
E = 361021.93

N66°52'33"E

N = 1465852.61
E = 361225.40

S83°25'55"E

ADDITIVE ALTERNATE
SEE BID PACKAGE

N = 1465846.66
E = 361292.12

S35°27'27"E

N = 1465800.50
E = 361334.67

STA. 298+63.71 122' RT.
BUILD 8' DIA. TYPE "E"
MANHOLE

ROADWAY SLOPE LIMITS

R/W

**PLAN**
SCALE: HORIZ. 1"=50'

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

**AS-BUILT**

**BASE BID**

RIO BRAVO BOULEVARD
SANITARY SEWER

NOTE: EXISTING UTILITIES MUST BE SUPPORTED DURING CONSTRUCTION

PROFILE GRADE
℄ SURV. & CONST.

3.7210%

1.0000%

EXISTING PROFILE
℄ SANITARY SEWER

447 LF 21" PVC SDR 35
S=-1.0090 %

224 LF 21" PVC SDR 35
S=-0.7946 %

68 LF 21" PVC SDR 35
S=-0.9242 %

63 LF 21" PVC SDR 35
S=-0.8361 %

EXISTING GRADE
AT ℄ SAS

EXIST. UG. TEL.
EXIST. 6" VHP GAS

EXIST. 4" HP GAS
EXIST. 8" WATER
EXIST. 16" CCP WATER

EXISTING 42" RCP SANITARY SEWER
T.O.P ELEV. 4920.37
STA. 298+63.71

STA. 291+00 20.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE
RIM ELEV. 4946.07
INV. WEST 4926.11
INV. EAST 4926.11

STA. 295+50 40.0' RT.
BUILD 4' DIA TYPE "E"
MANHOLE
RIM ELEV. 4942.30
INV. WEST 4921.64
INV. EAST 4921.61

STA. 297+75.68 35.0' RT.
BUILD 4' DIA TYPE "E"
MANHOLE
RIM ELEV. 4937.30
INV. WEST 4919.87
INV. EAST 4919.83

STA. 298+37.31 65.0' RT.
BUILD 4' DIA. TYPE "E"
MANHOLE
RIM ELEV. 4935.31
INV. WEST 4919.17
INV. EAST 4919.13

STA. 298+63.71 122' RT.
BUILD 8' DIA. TYPE "E"
MANHOLE
RIM ELEV. 4936.26
INV. WEST 4919.03
BID ALTERNATE #1

| | 4960 | 4940 | 4920 | 4900 |
|---|---|---|---|---|

| | 1 | 292+00 | 3 | 294+00 | 5 | 296+00 | 7 | 298+00 | 9 | 300+00 | 1 | 302+00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4926.7 (4947.45) | (4948.70) | 4926.8 (4949.95) | (4951.20) | 4926.9 (4952.45) | (4950.59) | 4926.9 (4948.73) | (4946.87) | 4927.0 (4945.33) | (4943.47) | 4927.1 (4941.61) | (4939.75) | 4927.5 (4937.89) | (4936.03) | 4927.9 (4936.53) | (4937.03) | 4936.0 (4937.53) | 4927.8 (4938.53) | (4939.03) | 4927.3 (4939.53) | (4940.85) | (4942.18) |

Time: 13:25:49
Date: 4/30/1999 BRS
Drawing File: K:\PROJECTS\28164\Asbuilts\28164-16.dwg

ENGR. FILE :

Connett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 2-87

THIS PROJECT BEGINS & ENDS WITHIN THE
TOWN OF ATRISCO LAND GRANT.

UTILITY OWNERS

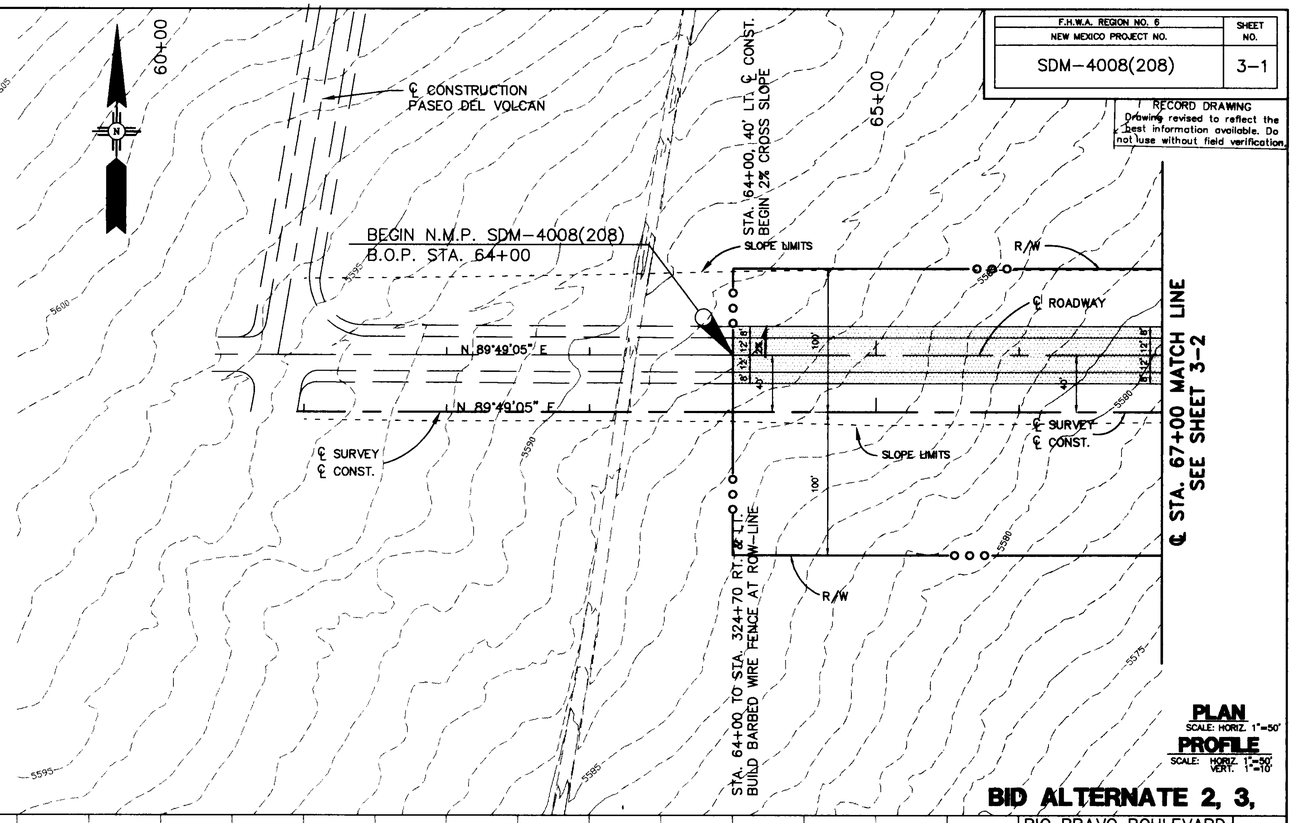
| | |
|---|---|
| GAS | GAS COMPANY OF NEW MEXICO<br>TIM CYNOVA (505) 761–7775 |
| ELECTRICITY | PUBLIC SERVICE CO. OF NEW MEXICO<br>JIM VANN (505) 848–3426 |
| | PLAINS ELECTRIC<br>MIKE McCALL (505) 889–7225 |
| WATER | CITY OF ALBUQUERQUE<br>GREG OLSON (505)768–2719 |
| TELEPHONE | AT & T<br>ISHMAEL PANTOJA (505) 842–2806<br>U.S. WEST COMMUNICATIONS<br>NORMA CARILLO (505) 245–8706 |
| SANITARY SEWER | CITY OF ALBUQUERQUE<br>GREG OLSON (505)768–2719 |
| AMOLE ARROYO | AMAFCA<br>JOHN KELLY (505)884–2215 |
| GUN CLUB LATERAL | MIDDLE RIO GRANDE CONSERVANCY DISTRICT<br>LEONARD UTTER (505)247–0234 |

NOTE: ALL SIMPLE CURVES ON THIS PROJECT ARE BASED ON THE ARC DEFINITION – RADIUS
A 1° CURVE = 5729.578'

BEARINGS ARE NEW MEXICO STATE PLANE GRID BEARINGS AS COMPUTED FROM GPS COORDINATES FURNISHED BY NMSHTD. DISTANCES ARE GROUND DISTANCES

LEGEND
– TOP OF SURFACING RIO BRAVO

NOTE:
1. FOR INTERSECTION DETAILS SEE SHEETS 2–19 THROUGH 2–25.
2. FOR REMOVAL OF EXISTING SIGNS, REFER TO "REMOVAL OF STR. & OBST." SCHEDULE ON SHEET 2–9.
3. FOR EARTHWORK SUMMARY REFER TO SHEET 2–13.
4. FOR PROFILE GRADE OF DITCH, SEE SHEET 3–26.




F.H.W.A. REGION NO. 6 | SHEET NO.
NEW MEXICO PROJECT NO. | 3–1
SDM–4008(208)

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

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

**BID ALTERNATE 2, 3,**

NOTE: FLOWLINE ELEVATIONS SHOWN DENOTE THE FLOWLINE OF STRUCTURE AT CENTERLINE OF ROADWAY ON PROFILE.

RIO BRAVO BOULEVARD

BENCHMARK
5/8" x 18" REBAR W/CAP "NMPS 7248"
STA. 67+82.59, 515.90' RT.
ELEV. 5563.70

ROADWAY TYPICAL SEC. Ⓐ

BEGIN CONSTRUCTION STA. 64+00

PROFILE GRADE ℄ SURV. & CONST.

-3.0000 %

EXISTING PROFILE ℄ SURV. & CONST.

DATUM ELEV
5570.0

| | 60+00 | 1 | 62+00 | 3 | 64+00 | 5 | 66+00 | 67+00 |
|---|---|---|---|---|---|---|---|---|
| EXISTING | 5597.7 | 5594.5 | 5592.1 | 5589.3 | 5586.9 | 5585.0 | 5582.0 | 5578.8 |
| PROPOSED | 5597.2 | 5594.34 | 5593.84 | 5593.34 | 5590.34 | 5587.34 | 5584.34 | 5581.34 |

5640 5620 5600 5580

Time: 10:37:58
Date: 4/7/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-3-1

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM–4008(208) SHEET 3–1

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-2 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

# PLAN
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 2, 3,

RIO BRAVO BOULEVARD

℄ STA. 67+00 MATCH LINE SEE SHEET 3-1

℄ STA. 81+00 MATCH LINE SEE SHEET 3-3

70+00 75+00 80+00

SLOPE LIMITS R/W ℄ ROADWAY ℄ SURVEY ℄ CONST.

N 89°49'05" E

STA. 64+00 TO STA. 324+70 RT. & LT. BUILD BARBED WIRE FENCE AT ROW-LINE

LEGEND
– TOP OF SURFACING RIO BRAVO

ROADWAY TYPICAL SEC. Ⓐ

BENCHMARK
5/8" x 18" REBAR W/CAP
"NMPS 7245"
STA. 78+33.55, 686.29' RT.
ELEV. 5541.90

PVI STA = 75+00
MO = 1.04
800.00' VC

PVC: 71+00 ELEV: 5569.34

-3.0000 %

PVT: 79+00 ELEV: 5549.50

EXISTING PROFILE ℄ SURV. & CONST.

PROFILE GRADE ℄ SURV. & CONST.

-1.9600%

DATUM ELEV 5530.0

| | 7 | 68+00 | 9 | 70+00 | 1 | 72+00 | 3 | 74+00 | 5 | 76+00 | 7 | 78+00 | 9 | 80+00 | 81 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5578.8 | 5576.0 | 5573.1 | 5569.9 | 5566.7 | 5563.9 | 5561.2 | 5559.1 | 5556.7 | 5554.3 | 5552.2 | 5549.8 | 5546.9 | 5544.1 | 5542.0 |
| | 5581.34 | 5578.34 | 5576.34 | 5572.34 | (5569.34) 5569.34 | (5566.34) 5566.41 | (5563.34) 5563.60 | (5560.34 5560.93 | (5557.34) 5558.38 | (5555.38) 5555.97 | (5553.42) 5553.68 | (5551.46) 5551.53 | (5549.50) 5549.50 | 5547.54 | 5546.58 |
| | | | | | (5567.84) 5567.86 | | (5564.84) 5564.99 | | (5561.84) 5562.25 | | (5558.84) 5559.64 | | (5554.40) 5554.81 | | (5550.48) 5550.50 |

5600 5580 5560 5540

Time: 11:10:43
Date: 4/11/1997
Drawing File: L:\PROJECTS\2816A\STD\PPS\SRB-3-2

ENGR. FILE : _____

Cornett Flemling West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-2

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-3 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

℄ STA. 81+00 MATCH LINE
SEE SHEET 3-2

℄ STA. 95+00 MATCH LINE
SEE SHEET 3-4

STA. 85+31.25 TO STA. 89+31.25 RT.
BUILD-362.50 LIN. FT. METAL BARRIER,
W-BEAM AND 37.50 LIN. FT. THRIE BEAM.
BUILD-2 TYPE MELT ANCHORAGE.

STA. 85+68.75 TO STA. 90+98.75 LT.
BUILD-362.50 LIN. FT. METAL BARRIER,
W-BEAM AND 37.50 LIN. FT. THRIE BEAM.
BUILD-2 TYPE, MELT ANCHORAGE.

STA. 89+00
D.A.= 220 AC., $Q_{100}$ = 558cfs, H.W.= 5.62'
BUILD 2-8'x4'x57' CONC. BOX CULV.
DES.1, NORM. WITH WING WALL RT. & LT.
BUILD EROSION CONTROL PAD RT. 1" THICK.

CME
50' x 180'

STA. 88+40 LT. BUILD
EARTHEN DYKE 200'x10'x6'

STA. 64+00 TO STA. 324+70 RT. & LT.
BUILD BARBED WIRE FENCE AT ROW-LINE

R/W
SLOPE LIMITS
℄ ROADWAY
℄ ROAD
℄ SURVEY
℄ CONST.
N 89°49'05" E
BUILD RIP-RAP BASIN
SEE SHEET 10-1
200'-0"
C.M.E.
100'-0"
+64
+35
167'

LEGEND
– TOP OF SURFACING
RIO BRAVO

## PLAN
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 2, 3,

RIO BRAVO BOULEVARD

BENCHMARK
5/8" x 18" REBAR W/CAP
"NMRS 7348"
STA. 104+99.63, 878.17' RT.
ELEV. 5482.40

ROADWAY TYPICAL SEC. Ⓐ

PVI STA = 92+00
MO = 0.49
800.00' VC
SSD = 1767

-1.9600%
-2.4459%

STA. 88+00
BUILD 2-8'x4' CONC. BOX CULV.
DES.1, NORM.
PVC: 88+00
ELEV: 5531.86

PROFILE GRADE ℄ SURV. & CONST.
EXISTING PROFILE ℄ SUR. & CONST.
H.W. ELEV.5529.13
$Q_{100}$ = 558
℄ ELEV.5523.71

DATUM ELEV
5500.0

| | 81 | 82+00 | 3 | 84+00 | 5 | 86+00 | 7 | 88+00 | 9 | 90+00 | 1 | 92+00 | 3 | 94+00 | 95 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5542.0 | 5538.4 | 5535.4 | 5532.0 | 5530.0 | 5527.7 | 5526.1 | 5524.3 | 5521.9 | (5528.92) | 5519.5 | (5526.96) | 5516.8 | (5525.00) | 5513.8 | (5522.80) | 5511.5 | (5520.35) | 5508.9 | (5517.91) | 5506.4 |
| | 5545.58 | 5543.62 | 5541.66 | 5539.70 | 5537.74 | 5535.78 | 5533.82 | (5531.86) | (5529.90) | 5528.85 | (5527.94) | 5526.77 | (5525.98) | 5524.63 | (5524.02) | 5522.43 | (5521.57) | 5521.30 | (5519.13) | 5519.01 | (5516.68) | 5516.65 |
| | | | | | | | | 5531.86 | 5529.87 | | 5527.82 | | 5525.71 | | 5523.53 | | | | | 5517.84 | |
| | | | | | | | | 5530.87 | | | | | | | | | | | | | | |
| | | | | | | | | 5530.88 | | | | | | | | | | | | | | |

5560 5540 5520

Time: 11:3.34
Date: 4/11/1997 LdS
Drawing File: L:\PROJECTS\2816A\STD\PPS\SRB-3-3

ENGR. FILE : _____

Emmett Planning West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-3

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-4 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

95+00 100+00 105+00

℄ STA. 95+00 MATCH LINE SEE SHEET 3-3

℄ STA. 109+00 MATCH LINE SEE SHEET 3-5

SLOPE LIMITS R/W ℄ ROADWAY 120' 40' 100' 6' 12' 12' 6' 5' 12' 12' 5' N 89°49'05" E

℄ SURVEY ℄ CONST.

STA. 64+00 TO STA. 324+70 RT. & LT. BUILD BARBED WIRE FENCE AT ROW-LINE

5500 5495 5490

LEGEND
– TOP OF SURFACING RIO BRAVO

**PLAN**
SCALE: HORIZ. 1"=50'

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

**BID ALTERNATE 2, 3,**

ROADWAY TYPICAL SEC. Ⓐ

RIO BRAVO BOULEVARD

BENCHMARK
5/8" x 18" REBAR W/CAP "NMPS 7248"
STA. 104+99.83, 678.17' RT.
ELEV. 5482.40

PVI: 96+00 ELEV: 5514.24

PVC: 99+00 ELEV: 5506.90

PVI STA = 105+50
MO = -4.51
1300.00' VC

-2.4459%

+.3269%

PROFILE GRADE ℄ SURV. & CONST.

EXISTING PROFILE ℄ SUR. & CONST.

5540 5520 5500

| | 95 | 96+00 | 7 | 98+00 | 9 | 100+00 | 1 | 102+00 | 3 | 104+00 | 5 | 106+00 | 7 | 108+00 | 109 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATUM ELEV 5480.0 | 5506.4 (5516.68) 5516.65 | (5515.46) 5515.45 | 5504.3 (5514.24) 5514.24 | 5502.0 5511.79 | 5500.3 5509.34 | 5499.2 (5506.90) 5506.90 | (5505.68) 5505.70 | 5498.0 (5504.45) 5504.56 | (5503.23) 5503.47 | 5497.0 (5502.01) 5502.43 | (5500.78) 5501.45 | 5496.3 (5499.56) 5500.52 | (5498.34) 5499.65 | 5496.0 (5497.12) 5498.82 | (5495.89) 5498.05 | 5495.1 (5496.67) 5497.34 | (5495.45) 5496.67 | 5493.7 (5492.22) 5496.06 | (5491.00) 5495.51 | 5491.4 (5491.16) 5495.00 | (5491.33) 5494.55 | 5489.4 (5491.49) 5494.16 | (5491.65) 5493.82 | 5488.0 (5491.82) 5493.53 | (5491.98) 5493.29 | 5487.4 (5492.14) 5493.11 |

Time: 11:8:18
Date: 4/11/1997 LJS
Drawing File: L:\PROJECTS\28184\STD\PPS\SRB-3-4

ENGR. FILE : _____

Cornett Planning West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-4

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-5 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

℄ STA. 109+00 MATCH LINE
SEE SHEET 3-4

℄ STA. 123+00 MATCH LINE
SEE SHEET 3-6

STA. 64+00 TO STA. 324+70 RT. & LT.
BUILD BARBED WIRE FENCE

STA. 111+12.50 TO STA. 115+50.00 RT.
BUILD 362.50 LIN. FT. METAL BARRIER,
W-BEAM AND 75.00 LIN. FT. THRIE BEAM.
BUILD 2 TYPE MELT ANCHORAGE.

STA. 112+50.00 TO STA. 116+87.50 LT.
BUILD 362.50 LIN. FT. METAL BARRIER,
W-BEAM AND 75.00 LIN. FT. THRIE BEAM.
BUILD 2 TYPE MELT ANCHORAGE.

STA. 114+00.00
BUILD 5-10'x5' CONC. BOX CULV.
DES. 1, NORM.
$Q_{100}$ = 2126cfs, H.W. = 6.23'
A.D. 13 AC., $Q_{100}$ = 457 cfs
BUILD 1 NORM. WITH WINGWALLS RT. & LT.
BUILD EROSION CONTROL PAD RT. 1" THICK.

STA. 120+40 END 2-12' LANES, BEGIN
TRANSITION TO 3-12' LANES (CLIMBING LANE)

R/W
SLOPE LIMITS
℄ ROADWAY
℄ SURVEY
℄ CONST.
N 89°49'05" E
BUILD RIP-RAP BASIN
SEE SHEET 10-1
C.M.E.
250'-0"
5485
5485

LEGEND
– TOP OF SURFACING
RIO BRAVO

**PLAN**
SCALE: HORIZ. 1"=50'

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

# BID ALTERNATE 2, 3,

RIO BRAVO BOULEVARD

BENCHMARK
5/8" x 18" REBAR W/CAP
NMPS 7948
STA. 131+81.74, 678.92' RT.
ELEV. 5520.10

ROADWAY TYPICAL SEC. Ⓐ

TRANS. TYP. SEC Ⓐ TO SEC Ⓑ

1300' V.C.

PVI: 112+00
ELEV: 5493.12

STA. 114+00.00
BUILD 5-10'x5' CONC. BOX CULV.
DES. 1, NORM.

STA. 120+40

PVC: 123+00
ELEV: 5496.72

+0.3269%

PROFILE GRADE ℄ SURV. & CONST.

H.W. ELEV. 5492.02

℄ ELEV. 5485.79

EXISTING PROFILE ℄ SURV. & CONST.

DATUM ELEV 5480.0

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5487.4 | (5492.14) | 5493.11 | (5492.31) | 5492.98 | 5486.4 | (5492.47) | 5492.90 | (5492.63) | 5492.88 | 5486.1 | (5492.80) | 5492.81 | (5492.96) | 5492.99 | 5486.6 | (5493.12) | 5493.12 | 5486.1 | 5493.45 | 5485.9 | 5493.78 | 5485.9 | 5494.11 | 5486.2 | 5494.43 | 5486.6 | 5494.76 | 5486.7 | 5495.09 | 5487.0 | 5495.41 | 5487.1 | 5495.74 | 5488.8 | 5496.07 | 5492.1 | 5496.39 | 5496.7 | (5496.72) | 5496.72 |
| 109 | | | 110+00 | | | | 1 | | | | | | | | 112+00 | | | 3 | | | | | 5 | | | | 7 | | | | 9 | | | | 1 | | | 122+00 | | | 123 |

5540
5520
5500

Time: 11:28:5
Date: 4/14/1997 JTN
Drawing File: L:\PROJECTS\2816\STD\PPS\SRB-3-5

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-5

| F.H.W.A. REGION NO. 6 | SHEET |
|---|---|
| NEW MEXICO PROJECT NO. | NO. |
| SDM-4008(208) | 3-6 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

℄ STA. 123+00 MATCH LINE
SEE SHEET 3-5

℄ STA. 137+00 MATCH LINE
SEE SHEET 3-7

125+00 | 130+00 | 135+00

R/W | SLOPE LIMITS | ℄ ROADWAY | ℄ SURVEY ℄ CONST.

STA. 127+00 END TRANSITION
BEGIN 3-12' LANES (CLIMBING LANE)

STA. 131+00 BUILD CUT-OFF CURB - RT

STA. 131+00 TO STA. 145+50 - 38' RT
BUILD SOIL CEMENT DITCH
SEE SHT. 3-26 & 3-27 FOR PROFILES

STA. 131+00 TO STA. 205+00 + 38' LT
BUILD SOIL CEMENT DITCH
SEE SHT. 3-26 & 3-27 FOR PROFILES

STA. 64+00 TO STA. 324+70 RT. & LT.
BUILD BARBED WIRE FENCE AT ROW-LINE

+99.98 | 200' | 300' | N 89°49'05" E | 12' | 6'

BUILD CONCRETE CUT-OFF CURB | SOIL CEMENT DITCH

LEGEND
- TOP OF SURFACING RIO BRAVO
- SOIL CEMENT DITCH

**PLAN**
SCALE: HORIZ. 1"=50'

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

**BID ALTERNATE 2, 3,**

TRANS. TYP. SEC Ⓐ TO SEC Ⓑ | ROADWAY TYPICAL SEC Ⓑ

RIO BRAVO BOULEVARD

BENCHMARK
5/8" x 18" REBAR W/CAP
NMPS 7248
STA. 131+81.74, 678.92' RT.
ELEV. 5520.10

PVC: 123+00
ELEV: 5496.72

STA. 127+00

PVI STA = 133+00
MO = 15.82
2000.00' VC
SSD = 648'

EXISTING PROFILE ℄ SURV. & CONST.

+0.3269% | -6.00%

PROFILE GRADE ℄ SURV. & CONST.

DATUM ELEV
5480.0

| | 123 | 124+00 | 5 | 126+00 | 7 | 128+00 | 9 | 130+00 | 1 | 132+00 | 3 | 134+00 | 5 | 136+00 | 137 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5496.72 | 5496.84 | 5501.7 | 5496.85 | 5506.9 | 5496.74 | 5496.55 | 5512.3 | 5496.28 | 5495.93 | 5515.9 | 5493.50 | 5494.99 | 5518.4 | 5494.40 |
| | (5496.72) | (5496.88) | (5497.05) | (5497.21) | 5497.37) | (5497.54) | (5497.70) | (5497.86) | (5498.03) | (5498.19) | (5498.36) | (5498.52) | 5493.73 | 5520.1 | (5498.68) |
| | 5496.7 | 5492.99 | 5492.16 | 5491.26 | 5490.27 | 5488.21 | 5488.07 | 5486.85 | 5529.2 | 5485.55 | 5533.2 | 5484.17 | 5482.71 | 5536.4 | 5481.18 |
| | (5498.85) | (5499.01) | (5499.17) | (5499.34) | (5499.50) | (5499.66) | (5499.83) | (5499.99) | (5498.99) | (5499.99) | (5499.99) | (5499.99) | (5499.99) | (5499.99) | (5478.99) |
| | 5479.56 | 5477.87 | 5519.5 | 5476.09 | 5507.2 | 5474.24 | 5472.31 | 5595.0 | 5470.29 | | | | | | |
| | (5490.99) | (5487.99) | (5488.99) | (5481.99) | (5478.99) | (5478.99) | | | | | | | | | |

Time: 11:38:41
Date: 4/14/1997 JTN
Drawing File: L:\PROJECTS\26164\STD\PPS\SRB-3-6

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-6

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM–4008(208) | 3–7 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

℄ STA. 137+00 MATCH LINE
SEE SHEET 3–6

℄ STA. 151+00 MATCH LINE
SEE SHEET 3–8

STA. 131+00 TO STA. 145+50 RT.
BUILD SOIL CEMENT LINED DITCH
SEE SHEET 3–26 & 3–27
FOR PROFILES

STA. 145+50 RT. BUILD 10'x11'x1'
EROSION CONTROL APRON

STA. 151+00 TO STA. 205+00 LT.
BUILD SOIL CEMENT LINED DITCH
SEE SHEET 3–26 & 3–27
FOR PROFILES

STA. 64+00 TO STA. 324+70 RT. & LT.
BUILD BARBED WIRE FENCE AT ROW–LINE

BUILD EROSION CONTROL PAD
10'x11'x1'

SOIL CEMENT DITCH

SLOPE LIMITS

℄ ROADWAY

℄ SURVEY
℄ CONST.

R/W

N 88°48'00" E

LEGEND
- TOP OF SURFACING RIO BRAVO
- SOIL CEMENT DITCH

**PLAN**
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 2, 3,

RIO BRAVO BOULEVARD

BENCHMARK
5/8" x 18" REBAR W/CAP
"NMPS 7248"
STA. 159+17.68, 690.89' RT.
ELEV. 5333.70

2000.00' VC

ROADWAY TYPICAL SEC. Ⓑ

EXISTING PROFILE ℄ SURV. & CONST.

PROFILE GRADE ℄ SURV. & CONST.

PVI: 143+00
ELEV: 5439.99

-6.0000%

DATUM ELEV 5380.0

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5495.0 | 5488.21 | 5487.3 (5469.99) | 5466.04 | 5463.79 | 5482.3 (5463.99) | 5461.46 | 5459.05 | 5477.6 (5457.99) | 5456.57 | 5454.00 | 5457.0 (5451.99) | 5451.36 | 5448.63 | 5450.0 (5445.99) | 5445.83 | 5442.95 | 5444.2 (5439.99) | 5439.99 | 5435.0 (5435.99) | 5435.99 | 5439.5 | 5427.99 | 5420.0 | 5421.99 | 5413.9 | 5415.99 | 5406.3 | 5409.99 | 5400.0 | 5403.99 | 5396.2 | 5397.99 | 5386.6 | 5391.99 |
| 5470.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 138+00 | | 9 | | | | | 140+00 | | 1 | | | | 142+00 | | | | 3 | | 144+00 | | 5 | | 146+00 | | 7 | | 148+00 | | 9 | | 150+00 | | 1 | |

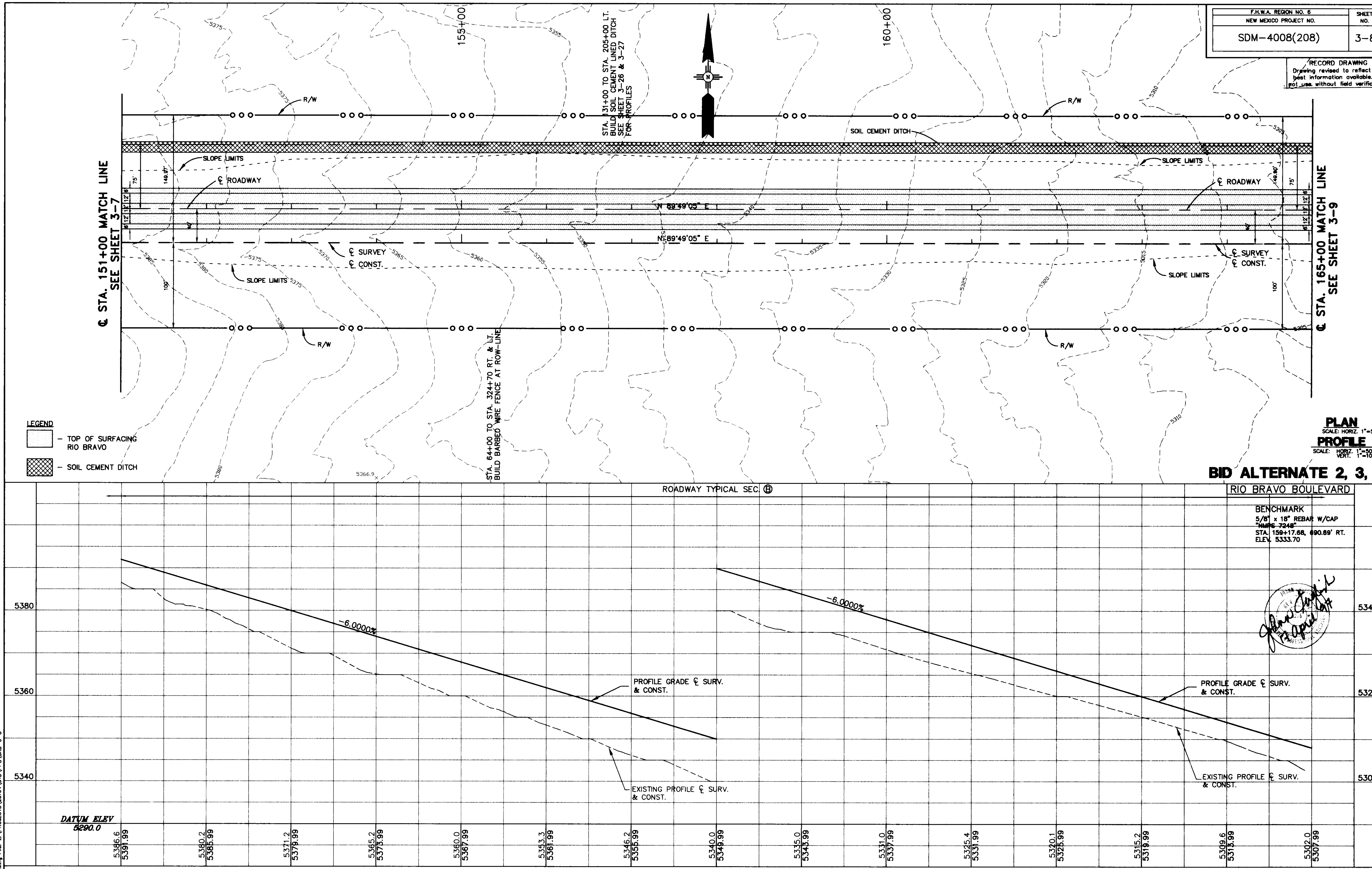
5480 5460 5440 5440 5420 5400

Time: 11:10:0
Date: 4/11/1997 LAS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-3-7

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM–4008(208) SHEET 3–7




ENGR. FILE : ______ Gannett Fleming West, Inc. ENGINEERS AND PLANNERS N.M. PROJECT NO. SDM-4008(208) SHEET 3-8

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-9 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

℄ STA. 165+00 MATCH LINE
SEE SHEET 3-8

℄ STA. 179+00 MATCH LINE
SEE SHEET 3-10

165+00 | 170+00 | 171+50 | 172+50 | 175+00

STA. 170+20 TO STA. 173+50 RT.
BUILD SOIL CEMENT LINED DITCH
SEE SHT. 3-26 & 3-27
FOR PROFILES

STA. 173+50 RT. BUILD 10'x11'x1'
EROSION CONTROL APRON.

STA. 151+00 TO STA. 205+00 LT.
BUILD SOIL CEMENT LINED DITCH
SEE SHT. 3-26 & 3-27
FOR PROFILES

STA. 176+00 TO STA. 182+00 RT.
BUILD SOIL CEMENT LINED DITCH
SEE SHT. 3-26 & 3-27
FOR PROFILES

STA. 64+00 TO STA. 324+70 RT. & LT.
BUILD BARBED WIRE FENCE AT ROW-LINE

R/W
SOIL CEMENT DITCH
SLOPE LIMITS
℄ ROADWAY
℄ SURVEY
℄ CONST.
N 82°49'05" E
BUILD CONCRETE CUT-OFF CURB
BUILD EROSION CONTROL PAD 10'x11'x1'
149.90'
149.83'
75'
44'
100'
5304.7
5294.5
5238.7

LEGEND
- TOP OF SURFACING RIO BRAVO
- SOIL CEMENT DITCH

**PLAN**
SCALE: HORIZ. 1"=50'

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

# BID ALTERNATE 2, 3,

ROADWAY TYPICAL SEC. (B)

RIO BRAVO BOULEVARD

BENCHMARK
5/8" x 18" REBAR W/CAP
"NMPS 7248"
STA. 185+99.01, 679.83' RT.
ELEV. 5195.50

-6.0000%
PROFILE GRADE ℄ SURV. & CONST.
EXISTING PROFILE ℄ SURV. & CONST.
800.00' VC
PVC: 176+00
ELEV. 5241.99

DATUM ELEV 5220.0

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5302.0 | 5307.99 | 5295.0 | 5301.99 | 5290.0 | 5295.99 | 5285.0 | 5289.99 | 5280.0 | 5283.99 | 5277.4 | 5277.99 | 5277.4 | 5271.99 | 5270.0 | 5265.99 | 5261.5 | 5259.99 | 5251.8 | 5253.99 | 5245.3 | 5247.99 | 5241.3 | (5241.99) 5241.99 | (5238.99) 5239.03 | 5236.4 | (5235.99) 5236.15 | (5232.99) 5233.34 | 5232.5 | (5229.99) 5230.62 | (5226.99) 5227.99 | 5226.9 | (5225.99) 5225.40 |
| 165 | | 166+00 | | 7 | | 168+00 | | 9 | | 170+00 | | 1 | | 172+00 | | 3 | | 174+00 | | 5 | | 176+00 | | 7 | | 178+00 | | 179 | | | | | |

5300 | 5280 | 5260 (left) — 5280 | 5260 | 5240 (right)

Time: 11:17:7
Date: 4/11/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-3-9

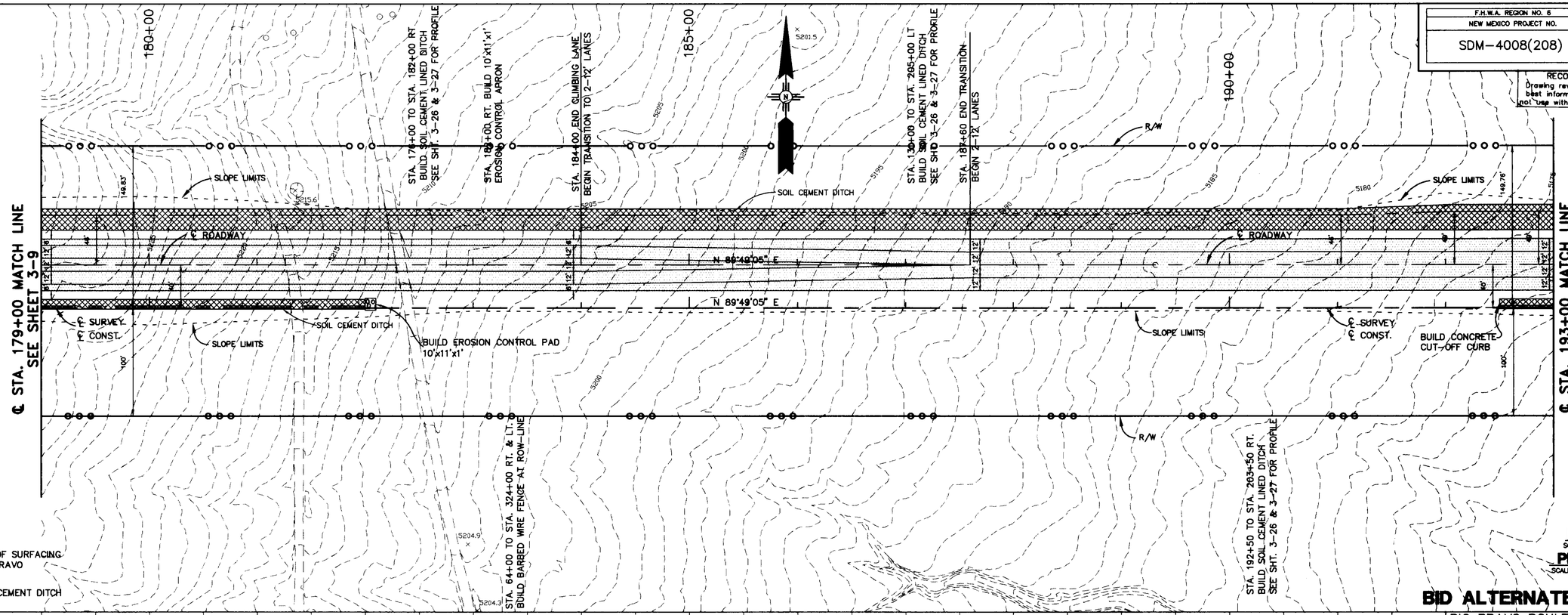
ENGR. FILE : _____

Connell Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-9

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-10 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

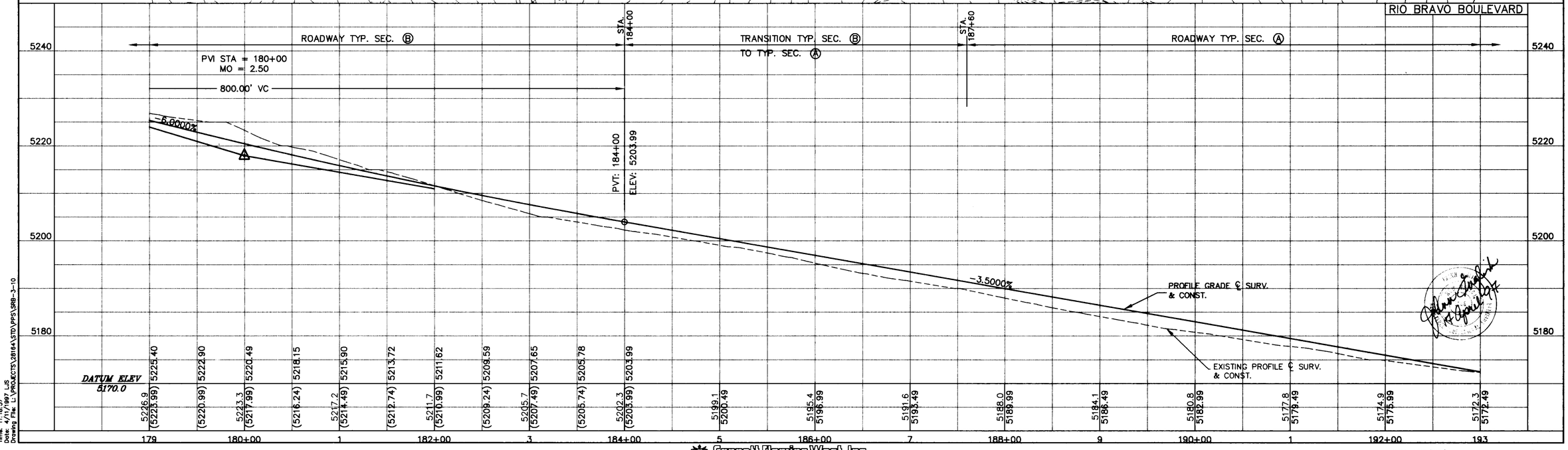



**PLAN**
SCALE: HORIZ. 1"=50'

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

# BID ALTERNATE 2, 3,

RIO BRAVO BOULEVARD




Time: 11:18:57
Date: 4/11/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\PFS\SRB-3-10

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-10

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-11 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

℄ STA. 193+00 MATCH LINE
SEE SHEET 3-10

℄ STA. 207+00 MATCH LINE
SEE SHEET 3-12

195+00 200+00 205+00

STA. 131+00 TO STA. 205+00 LT
BUILD SOIL CEMENT LINED DITCH
SEE SHT. 3-26 & 3-27 FOR PROFILES.

STA. 192+50 TO STA. 203+50 RT.
BUILD SOIL CEMENT LINED DITCH
SEE SHT. 3-26 & 3-27 FOR PROFILES.

STA. 205+00 TO STA. 268+29 LT
BUILD CONC. LINED DITCH
SEE SHT. 3-28, 3-29, 3-30
FOR PROFILES

R/W
SLOPE LIMITS
SOIL CEMENT DITCH
℄ ROADWAY
℄ SURVEY
℄ CONST.
CONC. LINED DITCH
N 89°49'05" E
BUILD EROSION CONTROL PAD 10'x11'x1'
REMOVE BY CONTR. 250' BW. FENCE

STA. 164+00 TO STA. 324+70 RT. & LT.
BUILD BARBED WIRE FENCE
AT R.O.W. LINE

STA. 203+50 RT. BUILD 10'x11'x1'
EROSION CONTROL APRON

LEGEND
- TOP OF SURFACING RIO BRAVO
- SOIL CEMENT DITCH/CONCRETE LINED DITCH

**PLAN**
SCALE: HORIZ. 1"=50'

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

**BID ALTERNATE 1, 2, 3,**

RIO BRAVO BOULEVARD

ROADWAY TYP. SEC. Ⓐ

-3.5000%

PROFILE GRADE ℄ SURV. & CONST.

EXISTING PROFILE ℄ SURV. & CONST.

DATUM ELEV 5120.0

| | 193 | 194+00 | 5 | 196+00 | 7 | 198+00 | 9 | 200+00 | 1 | 202+00 | 3 | 204+00 | 5 | 206+00 | 207 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5172.3 | 5169.8 | 5166.0 | 5161.6 | 5157.7 | 5154.2 | 5150.8 | 5147.4 | 5143.9 | 5140.0 | 5136.3 | 5132.0 | 5128.0 | 5125.0 | 5121.1 |
| | 5172.49 | 5168.99 | 5165.49 | 5161.99 | 5158.49 | 5154.99 | 5151.49 | 5147.99 | 5144.49 | 5140.99 | 5137.49 | 5133.99 | 5130.49 | 5126.99 | 5123.49 |

5180 5160 5140

Time: 14:16:12
Date: 4/4/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-3-11

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-11

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-12 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

℄ STA. 207+00 MATCH LINE
SEE SHEET 3-12

℄ STA. 221+00 MATCH LINE
SEE SHEET 3-13

210+00 215+00 220+00

R/W CONCRETE LINED DITCH SLOPE LIMITS ℄ ROADWAY N 89°49'05" E ℄ SURVEY ℄ CONST.

STA. 64+00 TO STA. 324+70, RT. & LT.
BUILD BARBED WIRE FENCE AT ROW-LINE

STA. 205+00 TO STA. 268+29
LT. BUILD CONC. LINED DITCH
SEE SHT. 3-28, 3-29, 3-30
FOR PROFILES

LEGEND
- TOP OF SURFACING RIO BRAVO
- CONCRETE LINED DITCH

**PLAN**
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 1, 2, 3,

RIO BRAVO BOULEVARD

BENCHMARK
5/8" x 18" REBAR W/CAP
"NMPS 7248"
STA. 212+69.97, 700.51' RT.
ELEV. 5101.10

ROADWAY TYP. SEC. Ⓐ

-3.5000%

PVI STA = 220+00
MO = -0.90
800.00' VC

PVC: 216+00
ELEV: 5091.99

PROFILE GRADE ℄ SURV. & CONST.

EXISTING PROFILE ℄ SURV. & CONST.

-2.60%

DATUM ELEV
5070.0

| | 207 | 208+00 | 9 | 210+00 | 1 | 212+00 | 3 | 214+00 | 5 | 216+00 | 7 | 218+00 | 9 | 220+00 | 221 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5140 | | | | | | | | | | | | | | | |
| 5120 | 5121.1 (5125.49) | 5116.2 (5119.99) | 5116.0 (5116.49) | 5113.2 (5112.99) | 5110.4 (5108.49) | 5107.6 (5105.99) | 5104.0 (5102.49) | 5100.3 (5098.99) | 5096.7 (5095.49) | 5093.0 (5091.99) | 5091.99 | 5089.3 (5088.49) | 5088.55 | 5084.7 (5084.99) | 5085.22 | 5060.4 (5081.49) | 5082.00 | 5076.9 (5077.99) | 5078.80 | 5075.3 (5076.39) | 5075.90 |
| 5100 | | | | | | | | | | | 5090.24 | | 5086.74 | | 5083.24 | | 5080.43 | | 5077.30 | | |
| 5080 | | | | | | | | | | | | | | | | | | | | | |

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

ENGR. FILE : _____ N.M. PROJECT NO. SDM-4008(208) SHEET 3-12

Time: 14:19:35
Date: 4/4/2007 LJS
Drawing File: U:\PROJECTS\28164\STD\PPS\SR8-3-12

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-13 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

225+00

230+00

℄ STA. 221+00 MATCH LINE
SEE SHEET 3-12

℄ STA. 235+00 MATCH LINE
SEE SHEET 3-14

CONCRETE LINED DITCH

R/W

SLOPE LIMITS

℄ ROADWAY

N 89°49'05" E

℄ SURVEY
℄ CONST.

151.4'
152.4'
120'
100'
90'
12' 12' 12' 12'

STA. 205+00 TO STA. 268+29
LT. BUILD CONC. LINED DITCH.
SEE SHT. 3-28, 3-29, 3-30
FOR PROFILES

STA. 64+00 TO STA. 324+70 RT. & LT.
BUILD BABBED WIRE FENCE AT ROW LINE

LEGEND

- TOP OF SURFACING RIO BRAVO
- CONCRETE LINED DITCH

**PLAN**
SCALE: HORIZ. 1"=50'

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

## BID ALTERNATE 1, 2, 3,

RIO BRAVO BOULEVARD

BENCHMARK
5/8" x 18" REBAR W/CAP
"NMRS 7248"
STA. 212+89.97, 700.51' RT.
ELEV. 5101.10

ROADWAY TYP. SEC. Ⓐ

800.00' VC

PVT: 224+00
ELEV: 5067.59

-2.6000%

PROFILE GRADE ℄ SURV. & CONST.

EXISTING PROFILE ℄ SURV. & CONST.

PVC: 235+00
ELEV: 5038.99

DATUM ELEV 5030.0

| | 221 | 222+00 | 3 | 224+00 | 5 | 226+00 | 7 | 228+00 | 9 | 230+00 | 1 | 232+00 | 3 | 234+00 | 235 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5075.3 | 5074.09 | 5073.2 | 5071.49 | 5070.6 | 5068.89 | 5068.5 | 5066.0 | 5062.6 | 5058.8 | 5055.3 | 5052.1 | 5050.1 | 5047.9 | 5045.9 | 5044.0 | 5040.8 | 5037.8 |
| | (5075.39) | (5074.09) | (5072.79) | (5071.49) | (5070.19) | (5068.89) | (5067.59) | 5064.99 | 5062.39 | 5059.79 | 5057.19 | 5054.59 | 5051.99 | 5049.39 | 5046.79 | 5044.19 | 5041.59 | (5038.99) |
| | 5075.90 | 5074.44 | 5073.02 | 5071.62 | 5070.25 | 5068.90 | 5067.59 | | | | | | | | | | | 5038.99 |

5100
5080
5060
5040

Time: 13:4:20
Date: 4/11/1997 JJS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-3-13

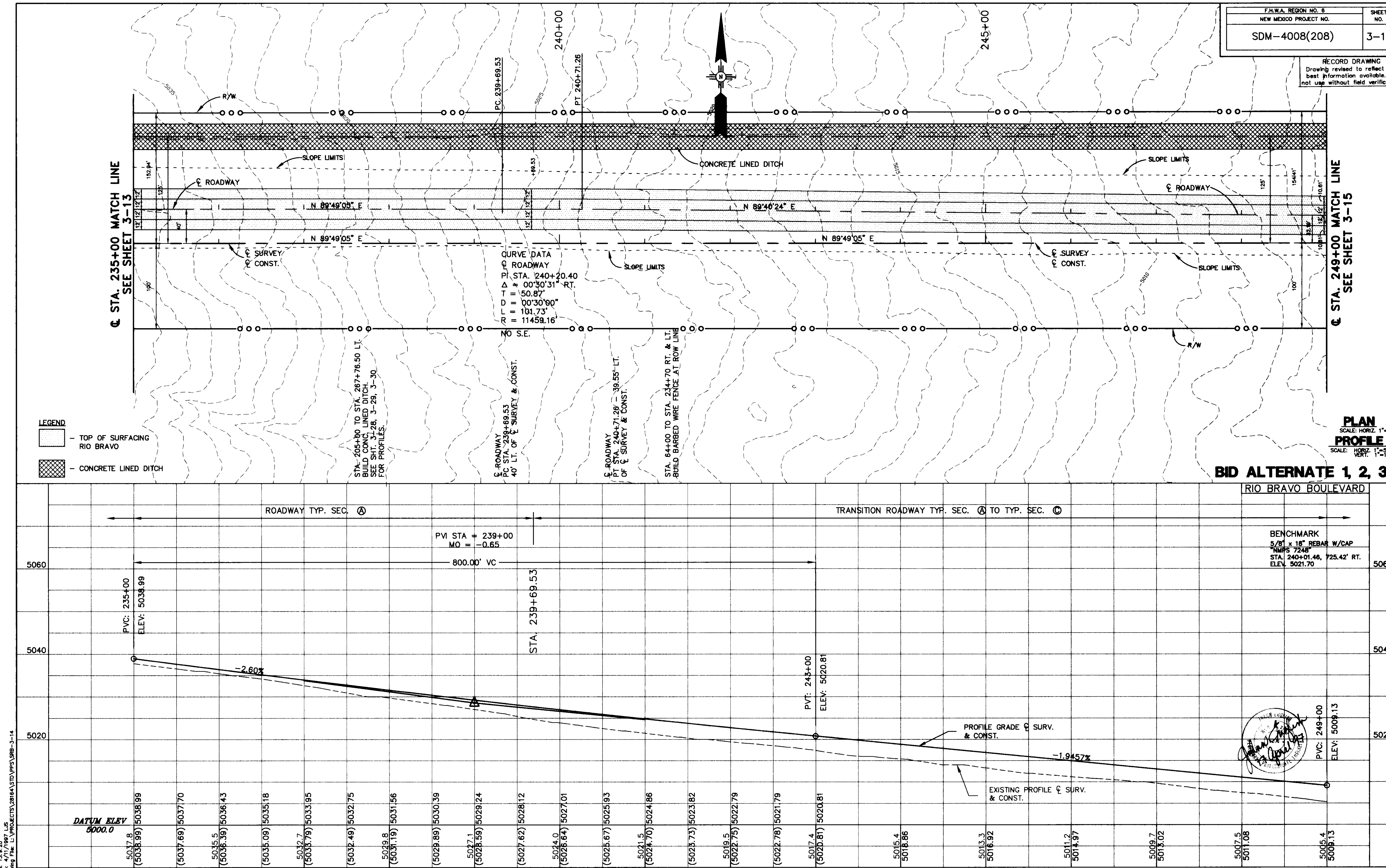
ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-13

| F.H.W.A. REGION NO. 6 NEW MEXICO PROJECT NO. | SHEET NO. |
|---|---|
| SDM-4008(208) | 3-14 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification




Time: 13:9:20
Date: 4/11/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-3-14

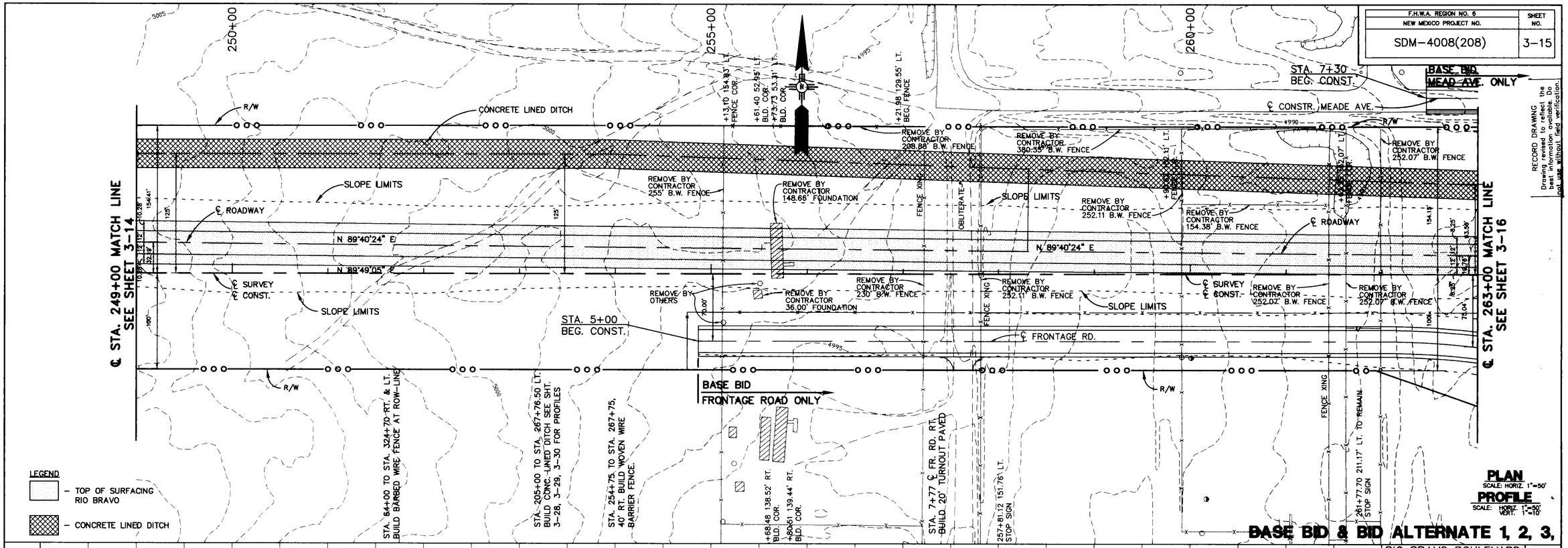
ENGR. FILE : ____________

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-14

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-15 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

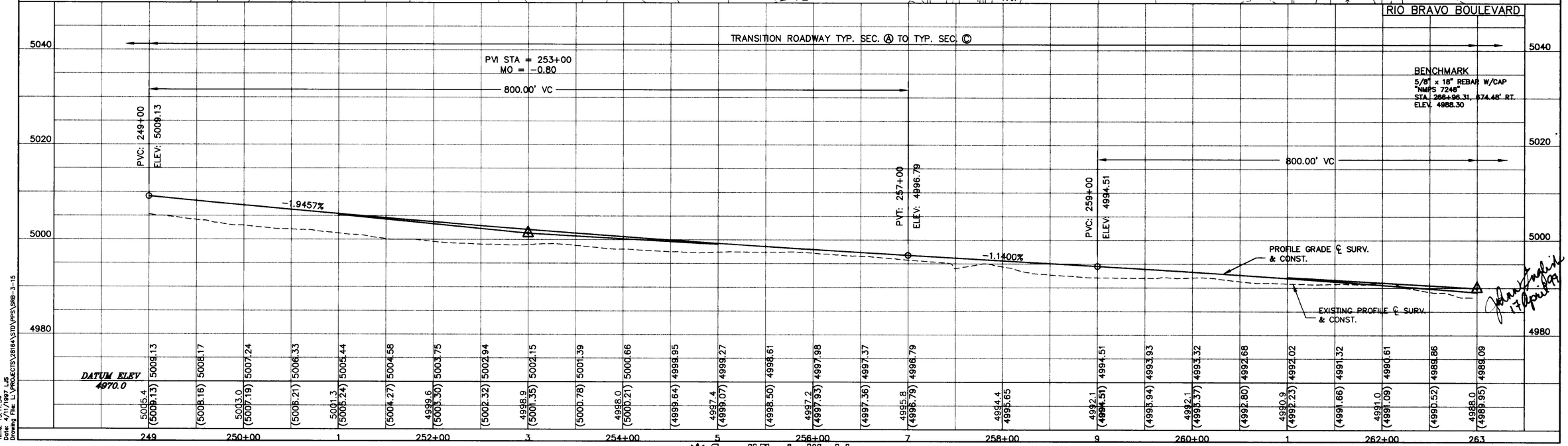



**PLAN**
SCALE: HORIZ. 1"=50'

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

## BASE BID & BID ALTERNATE 1, 2, 3,

RIO BRAVO BOULEVARD




Time: 13:11:54
Date: 4/11/1997 LAS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-3-15

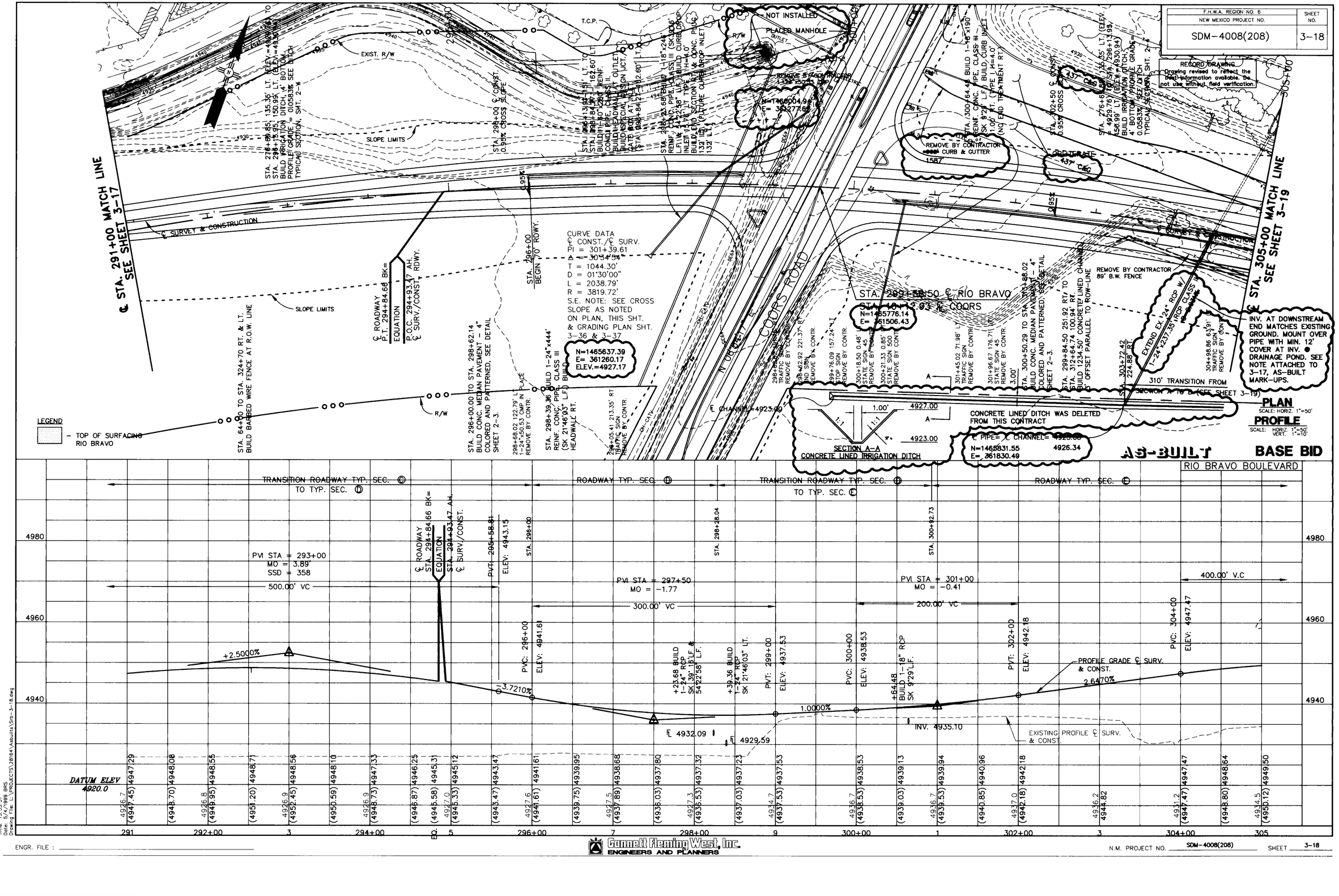
ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-15

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-18 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.




Time: 13:33:37
Date: 5/4/1999 BRS
Drawing File: L:\PROJECTS\28164\Asbuilts\Sdn-3-18.dwg

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-18

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-19 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

# AS-BUILT

## PLAN

SCALE: HORIZ. 1"=50'

## PROFILE

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

## BASE BID

℄ STA. 305+00 MATCH LINE SEE SHEET 3-18

℄ STA. 319+00 MATCH LINE SEE SHEET 3-20

EXIST. R/W

REMOVE BY CONTR. 685' B.W. FENCE

SLOPE LIMITS

REMOVE BY CONTR. 960' CURB & GUTTER

REMOVE BY CONTR.

℄ SURVEY & CONSTRUCTION

EXTEND EX. 24" RCP W/ 1-24"x32.75' RCP CLASS II, S=0.855%

℄ FX. PIPE= 4926.53

℄ PIPE= ℄ CHANNEL= 4926.25

N=1466046.95
E= 362669.14
ELEV. 4926.50

N=1466047.56
E= 362710.99

REMOVE BY CONTR. 925' B.W. FENCE

N=1965957.40
E= 362094.82

℄ CHANNEL= 4925.25

CURVE DATA
℄ CONSTRUCTION
PI = 311+37.10
Δ = 30°13'45"
R = 1944.3042'
DOC = 01°30'00"
L = 2038.79'
R = 3819.72'
S.E. = 0.02'/FT.
SEE CROSS SLOPE AS NOTED ON SHT. 3-18 & 3-19

PT STA. 311+37.09

PC STA. 311+64.22

CONCRETE LINED DITCH DELETED FROM CONTRACT

ADDED EXISTING MANHOLE LOCATIONS

310' TRANSITION FROM SECTION A TO B (SEE SHEET 3-18 FOR SECTION A)

N=1466214.01
E= 362872.31
T.O.P. 4921.20

N=1466212.93
E=362939.60
PIPE 4922.14

N=1466204.98
E= 362791.94
ELEV. 4926.82

N=1466005.67
E= 362835.21
T.O.P. 4918.88

N=1466005.09
E= 362902.41
℄ PIPE 4925.91

CURVE DATA
℄ CONSTRUCTION
PI = 317+37.10
Δ = 15°43'21"
R = 832.88'
DOC = 01°15'00"
L = 1257.80'
R = 4583.66'
S.E.=0.026'/FT.
SEE CROSS SLOPE AS NOTED ON PLAN SHT. 3-19 & 3-20

HV-105
4926.68

LEGEND
– TOP OF SURFACING RIO BRAVO

SECTION B–B
CONCRETE LINED IRRIGATION DITCH

STA. 299+84.50 251.92' RT. TO STA. 312+84.74 123.45' RT. BUILD 1034.50' CONCRETE LINED CHANNEL 3' OFFSET PARALLEL TO ROW-LINE

STA. 306+97.63 BUILD 1-18" REINF. CONC. PIPE, CLASS III, (NORM.) (FOR CURB INLET INSTALLATION) W/ CURB DROP INLET DETAIL "A" ON SHEET 2-3

STA. 306+50.28 TO STA. 308+88.02 BUILD 4" MEDIAN W/ COLORED AND PATTERNED CONC. PAVEMENT DETAIL ON SHEET 2-3

STA. 308+93.00 STATE SIGN JOB #0136 REMOVE BY CONTRACTOR

STA. 309+49.78 STATE SIGN JOB #0136 REMOVE BY CONTRACTOR

STA. 309+39.85 75.80' LT. STATE SIGN JOB #0136 REMOVE BY CONTRACTOR

STA. 308+40.61' LT. 304+40 FENCE COR.

STA. 308+22.00 LT. 304+40 FENCE COR.

STA. 311+64.22 & CONSTRUCTION 2.6% CROSS SLOPE

STA. 313+69.7 RT. BUILD PAVED TURNOUT W = 40' L = 83', WITH 2-20' STD. GATES

STA. 314+13.7 LT. BUILD PAVED TURNOUT W = 24' L = 103', WITH 1-12' STD. GATE

STA. 314+09.2 RT. BUILD PAVED TURNOUT W = 24' L = 63', WITH 1-12' STD. GATE

STA. 314+89.5 LT. BUILD PAVED TURNOUT W = 24' L = 83'

STA. 313+87.49 LT. 314+40 FENCE END

STA. 314+25.23 BUILD 1-24" CPC CLASS III BUILD CURB DROP INLET "A" W/ 4'-0" CURB OPENING

SMH RIM EL 28.20

STA. 314+44.31 EXTEND EXIST. 1-60" CPC (SK 6' LF.) LT. WITH 1-60" CPC CLASS III REINF. CONC. PIPE (CONC. PIPE) CL. II BUILD CONC. HEADWALLS FT. & LT. (IRRIG. STRUCTURE)

STA. 314+11.51 EXTEND EXIST. 1-24" CPC (SK 5'LF.) LT. WITH 1-24" CPC JONG PIPE CL. II AND EXTEND RT. WITH 1-24"x32' REINF. CONC. PIPE CL. II BUILD CONC. HEADWALLS FT. & LT.

STA. 315+47.50 TO STA. 320+71.8 MEDIAN W/ COLORED AND PATTERNED CONC. PAVEMENT DETAIL "A" ON SHEET 2-3 (VARIES)

STA. 318+11.51 EXTEND EXIST. 1-24" CPC (SK 5'LF.) LT. WITH 1-24" CPC JONG PIPE CL. II AND EXTEND RT. WITH 1-24"x32' REINF. CONC. PIPE CL. II BUILD CONC. HEADWALLS FT. & LT.

STA. 315+94.79 LT. 318+40 FENCE COR.

STA. 314+94.64 TO STA. 320+86.59 BUILD CONC. MEDIAN PAVEMENT - 4" COLORED AND PATTERNED SEE DETAIL SHEET 2-3.

+25.128.43' LT. STRUCT. COR.

+42.08 13.51' LT. STRUCT. COR.

SMH RIM EL 26.32

SMH RIM EL 26.32

EXIST. R/W

308+29.60 13.51' LT. DELINEATOR REMOVE BY CONTRACTOR

STA. 64+00 TO STA. 324+70 RT. & LT. BUILD BARBED WIRE FENCE AT R.O.W. LINE

308+78.11 42.49' RT. SIGN POST REMOVE BY CONTRACTOR

309+19.12 59.91' LT. SHERRIFS SIGN REMOVE BY CONTRACTOR

309+28.66 0.04' RT. DELINEATOR REMOVE BY CONTRACTOR

310+69.14 58.29' RT. TRAFFIC SIGN REMOVE BY CONTRACTOR

+69.99 150.42' RT. STRUCT. COR.

+08.15 155.10' RT. STRUCT. COR

314+02.16 60.39' LT. TRAFFIC SIGN REMOVE BY CONTRACTOR

314+08.42 66.76' RT. WENK FARM SIGN REMOVE BY OTHERS

314+12.39 63.26' RT. TRAFFIC SIGN REMOVE BY CONTRACTOR

314+47.51 61.99' LT. DELINEATER REMOVE BY CONTRACTOR

314+47.51 61.99' LT. DELINEATER REMOVE BY CONTRACTOR

314+54.36 64.35' RT. DELINEATER REMOVE BY CONTRACTOR

314+86.18 66.09' RT. TRAFFIC SIGN REMOVE BY CONTRACTOR

314+91.11 13.22' RT. DELINEATER REMOVE BY CONTRACTOR

317+78.36 64.20' RT. DONT LITTER SIGN REMOVE BY CONTRACTOR

RIO BRAVO BOULEVARD

ROADWAY TYP. SEC. ℄

PVI STA = 306+00
MO = 2.48
SSD = 334
400.00' VC

PVI STA = 314+00
MO = -0.79
300.00' VC

+2.6470%

-2.30%

-0.20%

+97.63 BUILD 1-18" RCP (NORM)

PVT: 308+00
ELEV: 4948.16

PVC: 312+50
ELEV: 4937.81

+45.23 BUILD 1-18" RCP (SK 20'59 42" L.F.)

PVT: 315+50
ELEV: 4934.06

PROFILE GRADE ℄ SURV. & CONST.

EXISTING PROFILE ℄ SURV. & CONST.

℄ 4938.57

℄ 4931.63

DATUM ELEV 4910.0

| | 305 | 306+00 | 7 | 308+00 | 9 | 310+00 | 1 | 312+00 | 3 | 314+00 | 5 | 316+00 | 7 | 318+00 | 319 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4980 | | | | | | | | | | | | | | | |
| 4960 | | | | | | | | | | | | | | | |
| 4940 | | | | | | | | | | | | | | | |
| 4920 | | | | | | | | | | | | | | | |
| (EXIST.) | 4950.12 | 4951.44 | 4952.76 | 4951.61 | 4950.46 | 4948.31 | 4948.16 | 4945.86 | 4941.26 | 4938.96 | 4937.81 | 4936.66 | 4935.51 | 4934.36 | 4933.21 |
| (NEW) | 4944.5 | 4950.05 | 4950.29 | 4950.22 | 4949.84 | 4949.16 | 4948.16 | 4933.0 | 4933.0 | 4932.5 | 4932.1 | 4932.5 | 4935.86 | 4935.15 | 4934.61 |
| | | | 4934.7 | | 4934.5 | | 4933.7 | | 4932.1 | | | | | 4932.0 | 4934.26 |
| | | | | | | | | | | | | | | | 4931.8 |
| | | | | | | | | | | | | | | | 4931.5 |
| | | | | | | | | | | | | | | | 4931.9 |
| | | | | | | | | | | | | | | | 4931.8 |
| | | | | | | | | | | | | | | | 4931.7 |
| | | | | | | | | | | | | | | | 4935.36 |

Time: 15:5:9
Date: 5/4/1999 BRS
Drawing File: L:\PROJECTS\28164\Asbuilts\Sht-3-19.dwg

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-19

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-20 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

THIS PROJECT ENDS IN SEC.11 TOWNSHIP 9 NORTH RANGE 3 EAST N.M.P.M.

℄ STA. 319+00 MATCH LINE SEE SHEET 3-19

320+00

+22.90 92.35' LT. FENCE COR.

+53.07 94.57' LT. BEG. FENCE

+93.04 94.44' LT. FENCE INT.

STA. 320+15 BEGIN FR. RD.

SLOPE LIMITS

STA. 321+32.8 RT. BUILD PAVED TURNOUT W=24', L=63' (SEE PLAN)

STA. 321+40.0 LT. BUILD PAVED TURNOUT W=24', L=13'

STA. 321+94.5 TO STA. 324+70 LT. BUILD 387.5 L.F. METAL BARRIER W-BEAM WITH 2 TYPE 'MELT' ANCHORAGES.

STA. 322+10 BEG. TRANS. TO EXIST.

STA. 322+85 END FR. RD.

STA. 321+95.74 TO STA. 324+70.00 BUILD CONC. MEDIAN PAVEMENT - 4" COLORED AND PATTERNED, SEE DETAIL SHEET 2-3.

+90.86 102.79' LT. FENCE COR.

+05.06 179.31' LT. STRUCT. COR.

+18.32 180.88' LT. STRUCT. COR.

+46.38 134.33' LT. FENCE COR.

325+00

+17.63 194.29' LT. STRUCT. COR.

+35.67 170.33' LT. FENCE. COR.

+87.15 202.89' LT. STRUCT. COR.

+05.30 170.70' LT. FENCE. COR.

330+00

℄ SURVEY & ℄ CONST.

12' 12' 8'

REMOVE BY CONTR. 390' CURB & GUTTER

REMOVE BY CONTR. 506' CURB & GUTTER

PT = 324+22.03

E.O.P. STA. 324+70.00
END N.M.P. SDM-4008(208)

STA. 322+10

OUTLET

INLET 7

B-BALL

4930

4925

LEGEND

– TOP OF SURFACING RIO BRAVO / FR. ROAD

320+90.15 4.83' RT DELINEATOR REMOVE BY CONTRACTOR

321+05.11 66.69' LT TRAFFIC SIGN REMOVE BY CONTRACTOR

321+07.45 48.37' LT TRAFFIC SIGN REMOVE BY CONTRACTOR

321+58.19 58.20' RT. TRAFFIC SIGN REMOVE BY CONTRACTOR

321+62.67 64.35' LT. TRAFFIC SIGN REMOVE BY CONTRACTOR

321+68.90 93.42' LT. TRAFFIC SIGN REMOVE BY CONTRACTOR

324+99.78 87.49' RT. TRAFFIC SIGN REMOVE BY CONTRACTOR

+69.25 98.94' RT. FENCE INT.

+85.87 127.48' RT. STRUCT. COR.

+49.18 115.58' RT. STRUCT. COR.

+66.09 96.45' RT. FENCE INT.

+00.63 93.91' RT. FENCE END

325+25.80 54.71' RT. TRAFFIC SIGN REMOVE BY CONTRACTOR

**PLAN**
SCALE: HORIZ. 1"=50'

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

**BASE BID**

ROADWAY TYP. SEC. Ⓔ

TRANSITION ROADWAY TYP. SEC. Ⓔ TO EXISTING

E.O.P. STA. 324+70.00
END N.M.P. SDM-4008(208)

PROFILE GRADE

-0.2000%

EXISTING PROFILE

DATUM ELEV 4910.00

| | 319 | 320+00 | 1 | 322+00 | 3 | 324+00 | +70 | 325 |
|---|---|---|---|---|---|---|---|---|
| | 4931.7 | 4932.0 | 4931.4 | 4931.5 | 4931.6 | 4932.1 | 4932.2 | 4932.2 |
| | 4933.36 | 4933.16 | 4932.96 | 4932.76 | 4932.56 | 4932.36 | 4932.22 | 4932.16 |

RIO BRAVO BOULEVARD

PROFILES-LT. FRONTAGE ROAD

STA. 320+15

20 V.C. M.O. = 0.18'

+6.8333 %

+0.20%

STA. 321+40 LT. BUILD 1-24' T.O.

20 V.C. M.O. = 0.17'

0.00%

20 V.C. M.O. = 0.15'

-5.8636 %

STA. 322+85

20 V.C. M.O. = 0.12'

-1.00%

EXIST. GROUND 80' LT.

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4926.8 | +15 | VPC | (4926.83) | 26.83 | 4927.0 | 4931.98 | +05 | VPC | (4932.32) | 32.32 | 4927.3 | 4930.94 | +55 | VPC | (4933.00) | 33.00 | 4927.14 | 27.14 | | | | | |
| | +25 | VPI | (4926.85) | 27.03 | | | +15 | VPI | (4933.00) | 32.83 | | | +85 | VPI | (4933.00) | 32.85 | 4926.85) | 26.87 | | | | | |
| | +25 | VPT | (4927.53) | 27.53 | | | +25 | VPT | (4933.00) | 33.00 | | | +75 | VPT | (4932.41) | 32.41 | 4926.45) | 26.45 | | | | | |
| | 320+00 | | | | | | 321+00 | | | | | | 322+00 | | | | | | 323+00 | | | | | |

| | 4960 | 4940 | 4920 |
|---|---|---|---|
| | 4960 | 4930 | 4920 |
| | 4960 | 4940 | 4920 |

Time: 13:38:40
Date: 4/11/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-3-20

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-20

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-21 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

STA. 8+50 ℄ COORS BEGIN CONSTRUCTION

+26.44, 57.15' LT., POWER POLE
+35.50, 60.12' LT., POWER POLE

10+00

+61.20, 44.27' LT., POWER POLE W/TRANS

STA. 11+10 ℄ COORS END TRANSITION 0.5% CROSS SLOPE

+39.24, 46.03' LT., POWER POLE

+51.03, 42.69' LT., R3-9b REMOVE BY CONTR.

STA. 11+09.08 TO STA. 15+21.77 BUILD CONC. MEDIAN PAVEMENT - 4" COLORED AND PATTERNED, SEE DETAIL SHEET 2-3.

15+00

+54.56, 48.24' LT., MH

+56.85, 114.63' LT., 18" CORR. METAL PIPE.
+58.65, 54.72' LT., TRANS.
+42.76, 39.50' LT., STREET LIGHT
+46.57, 47.67' LT., POWER POLE
+62.64, 54.72' LT., POWER POLE
+64 to +46.40' LT., SIGN
+72.38, 212.84' LT., MANHOLE 18"
+74.50, 69.60' LT., STREET LIGHT
+104.56, 116.16' LT., POWER POLE
+98.61, 203.94' LT., POWER POLE
+33.54, 98.83' LT., LIGHT POLE
+72.62, 85.56' LT., POWER POLE
+75.73, 71.83' LT., FIRE HYDRANT

+53.37, 84.31' LT., POWER POLE

+75.32, 59.85' LT., CONTROL PANEL

20+00

+37.45, 49.83' LT., LIGHT POLE
+23.45, 83.72' LT., POWER POLE

STA. 18+06 TO STA. 18+29, 71' LT. BUILD 6-4" STATIONARY GUARD POSTS-4, 6' O.C. SPACING (SEE DETAIL SHT. 2-39

STA. 20+97.8 LT. BUILD PAVED, T.O. W = 40', L = 52'

+86.94, 103.00' LT., FIRE HYDRANT
+70.72, 53.17' LT., SIGN
+81.14, 108.90' LT., MANHOLE

℄ STA. 21+00 MATCH LINE SEE SHEET 3-22

STA. 471+83 BUILD 2-9" PIPE GATES (SEE DETAIL SHEET 2-2)

℄ CONSTRUCTION

N06°54'17"E

COORS BOULEVARD S.R. 45

NOTE:
FOR PLAN, PROFILES AND DETAILS OF RIO BRAVO, SEE SHEETS 3-18

STA. 16+12.93 ℄ COORS
STA. 299+58.50 ℄ RIO BRAVO

NOTE: SEE SHT. 2-19 TO 2-24 FOR INTERSECTION & MEDIAN DETAILS

RIO BRAVO BOULEVARD

REMOVE BY CONTRACTOR

STA. 17+02.32 TO STA. 20+81.59 BUILD CONC. MEDIAN PAVEMENT - 4" COLORED AND PATTERNED, SEE DETAIL SHEET 2-3.

LEGEND
▭ – TOP OF SURFACING COORS BLVD.

+71.24, 40.75' RT., M2-1, M1-5(500) REMOVE BY CONTR.

+84.77, 36.93' RT., SIGN REMOVE BY CONTR.

+13.59, 36.17' RT., W1-3 REMOVE BY CONTR.

+86.11, 36.31' RT., R3-9a REMOVE BY CONTR.

+00.46, 3.48' RT., R4-7 REMOVE BY CONTR.

STA. 14+80.21
+98.21, 8.99' RT., POWER POLE W/LIGHT

+36.05, 59.43' RT., R1-2 REMOVE BY CONTR.

+72.04, 54.28' RT., M1-5(45) REMOVE BY CONTR.

+82.86, 8.00' RT., R3-2, M6-1 REMOVE BY CONTR.

**PLAN**
SCALE: HORIZ. 1"=50'

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

**BASE BID**

COORS BLVD.

TRANSITION EXISTING ROADWAY TO TYP. SEC. (F)

ROADWAY TYP. SEC. (F)

SEE INTERSECTION CONSTRUCTION SHEET 2-17

ROADWAY TYP. SEC. (F)

STA. 11+10

STA. 17+38.29

VPI STA = 18+20.34
M.O. = 0.41'

300.00' VC

PVC 16+70.34 ELEV. 4938.83

PVT 19+70.34 ELEV. 4940.93

COORS BLVD. PROFILE GRADE 0.1500%

STA. 8+50 ℄ COORS BEGIN CONSTRUCTION

1.2501%

EXISTING PROFILE

DATUM ELEV 4910.00

| | 8+00 | 9+00 | 10+00 | 11+00 | 12+00 | 13+00 | 14+00 | 15+00 | 16+00 | 17+00 | 18+00 | 19+00 | 20+00 | 21+00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4928.1 | 4928.6 (4928.57) | 4929.0 (4928.20) | 4929.4 (4928.82) | 4930.0 (4930.45) | 4930.6 (4931.07) | 4931.2 (4931.70) | 4931.9 (4932.32) | 4932.6 (4932.95) | 4933.2 (4933.57) | 4933.6 (4934.20) | 4934.0 (4934.82) | 4935.0 (4935.45) | 4935.6 (4936.07) |
| | 4936.3 (4936.70) | 4936.8 (4937.32) | 4937.5 (4937.95) | 4937.5 (4938.57) | +70.34 (4938.83) 38.83 | 4938.1 (4939.20) 4939.18 | 4938.6 (4939.82) 4939.70 | 4938.8 (4940.45) 4940.14 | +20.34 (4940.70) 4940.29 | 4939.9 (4940.74) 4940.48 | 4940.4 (4940.82) 4940.73 | 4940.7 (4940.89) 4940.89 | +70.34 (4940.93) 4940.93 | 4940.9 (4940.97) 4941.0 (4941.05) 4941.1 (4941.12) |

4980 4960 4940 4920

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

ENGR. FILE :

N.M. PROJECT NO. SDM-4008(208) SHEET 3-21

Time: 9:2:3
Date: 9/16/1997 RKA
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-3-21.DWG

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-22 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

STA. 20+97.8 LT
BUILD PAVED T.O.
W = 40', L = 52'

℄ STA. 21+00 MATCH LINE
SEE SHEET 3-21

STA. 21+78.89 ℄ COORS
BEGIN TRANSITION TO
EXISTING ROADWAY
7.5% CROSS SLOPE

STA. 23+63.7 LT
BUILD PAVED T.O.
W = 40', L = 43'

FLORA VISTA

25+00

STA. 24+25.20
OFFSET: 42.28 L

STA. 25+85.95
OFFSET: 45.67 L

STA. 26+02.78
OFFSET: 60.02 L

STA. 26+05.53
OFFSET: 44.56 L

STA. 27+70 ℄ COORS
END CONSTRUCTION

BARCELONA RD.

COORS BOULEVARD

N06°54'17"E

S.R. 45

0.5%

℄ CONSTRUCTION

NOTE: SEE SHT. 2-26
FOR MEDIAN DETAILS

STA. 21+78.89

STA. 21+39.21 TO STA. 23+23.03 - 4" BUILD CONC. MEDIAN PAVEMENT COLORED AND PATTERNED, SEE DETAIL SHEET 2-3.

+20.79, 50.40' RT., W2-1 REMOVE BY CONTR.

+28.83, 37.40' RT., R3-9X REMOVE BY CONTR.

+23.18, 38.48' RT., R2-1-55 REMOVE BY CONTR.

+70.78, 50.39' RT., POER POLE W/LIGHT REMOVE BY CONTR.

LEGEND
— TOP OF SURFACING COORS BLVD.

**PLAN**
SCALE: HORIZ. 1"=50'

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

**BASE BID**

COORS BLVD.

ROADWAY
TYP. SEC. (F)

TRANSITION ROADWAY TYP. SEC. (F)
TO EXISTING

COORS BLVD.
PROFILE GRADE

0.1500%

EXISTING PROFILE

STA. 27+70 COORS
END CONST.

4980
4960
4940
4920

*DATUM ELEV*
*4910.00*

| 21+00 | 22+00 | 23+00 | 24+00 | 25+00 | 26+00 | 27+00 | 27+70 | 28+00 | 29+00 |
|---|---|---|---|---|---|---|---|---|---|
| 4941.12 | 4941.27 | 4941.42 | 4941.57 | 4941.72 | 4941.87 | 4942.02 | 4942.12 | 4942.17 | 4942.32 |
| 4941.1 | 4941.6 | 4941.1 | 4941.2 | 4941.2 | 4941.2 | 4941.3 | 4941.4 | 4941.5 | 4941.6 | 4941.7 | 4941.9 | 4942.0 | 4942.0 | 4942.1 | 4942.2 | 4942.3 |
| | 4941.20 | | 4941.35 | | 4941.50 | | 4941.65 | | 4941.80 | | 4941.95 | | 4942.10 | | 4942.25 | |

Time: 9:03:31
Date: 9/16/1997 RKA
Drawing File: L:\PROJECTS\28164\STD\VPS\SRB-3-22.DWG

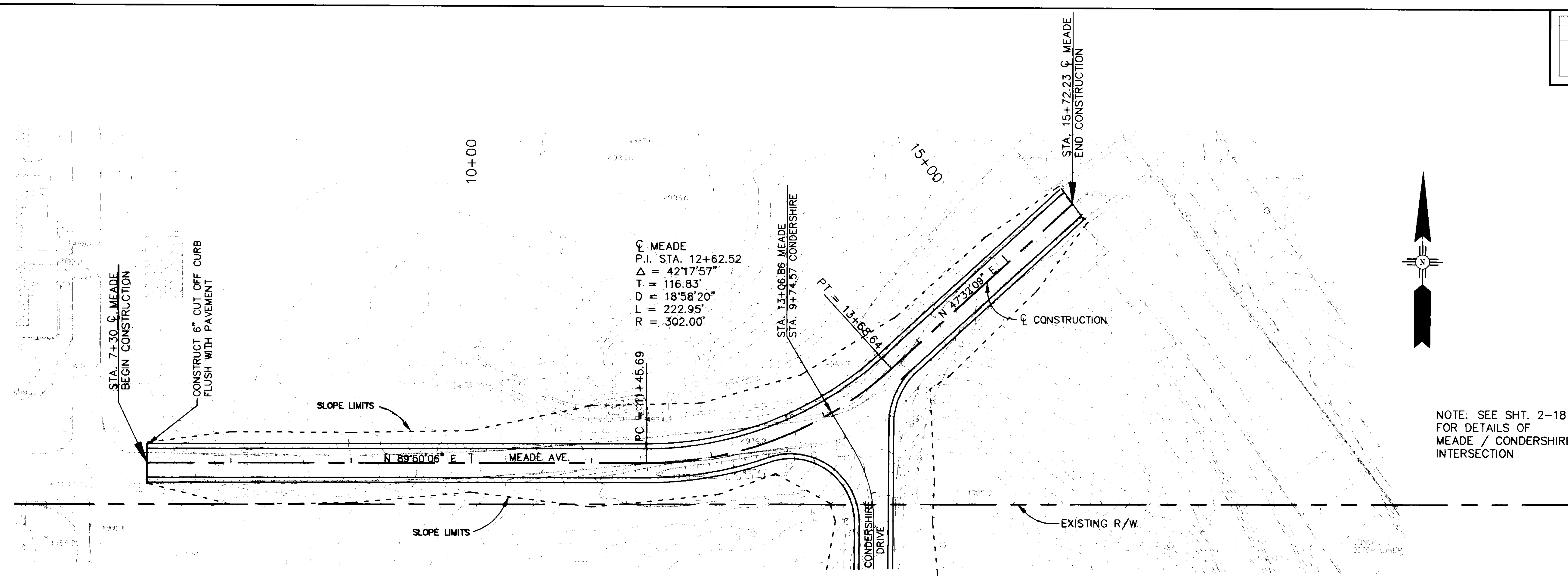
ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-22

| F.H.W.A. REGION NO. 6 | SHEET |
|---|---|
| NEW MEXICO PROJECT NO. | NO. |
| SDM–4008(208) | 3–23 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.



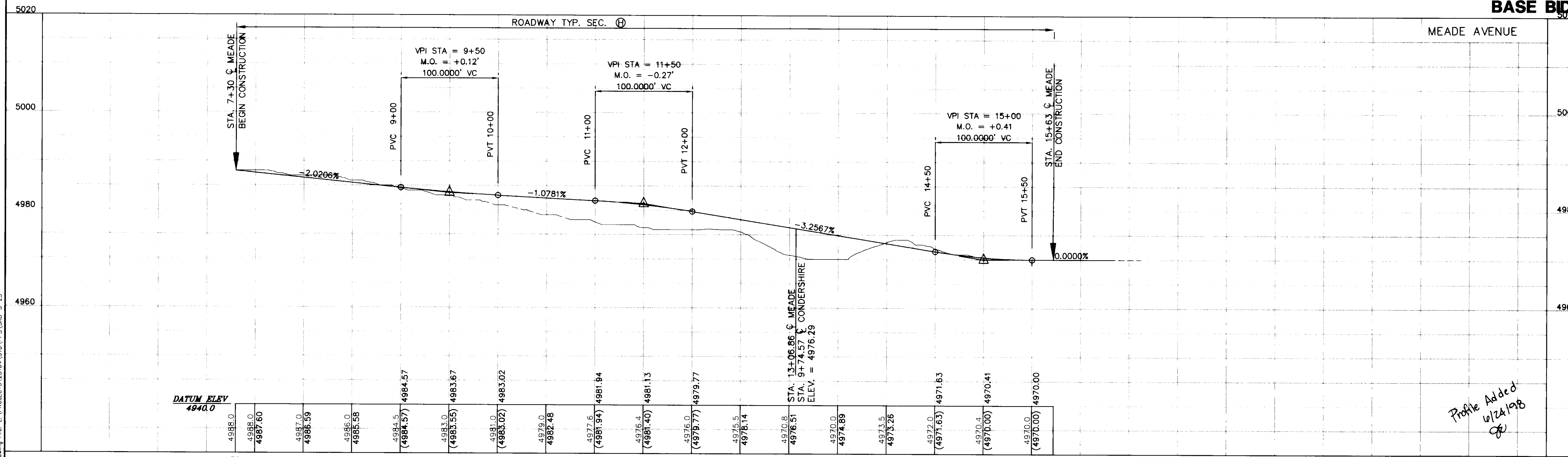

NOTE: SEE SHT. 2–18 FOR DETAILS OF MEADE / CONDERSHIRE INTERSECTION

LEGEND
- TOP OF SURFACING MEADE AVE.

**PLAN**
SCALE: HORIZ. 1"=50'

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

**BASE BID**




Time: 13:58:40
Date: 4/11/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-3-23

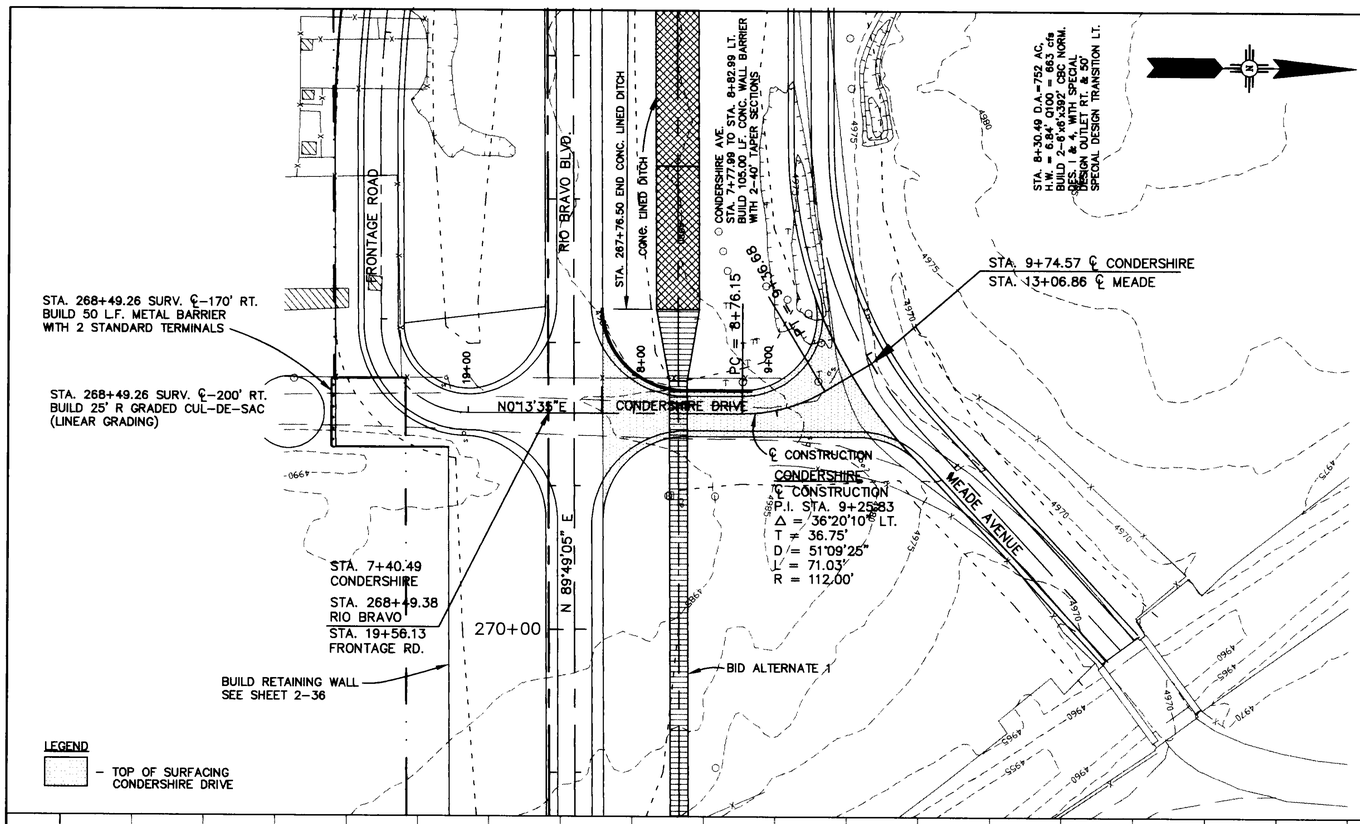
ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM–4008(208) SHEET 3–23

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-24 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

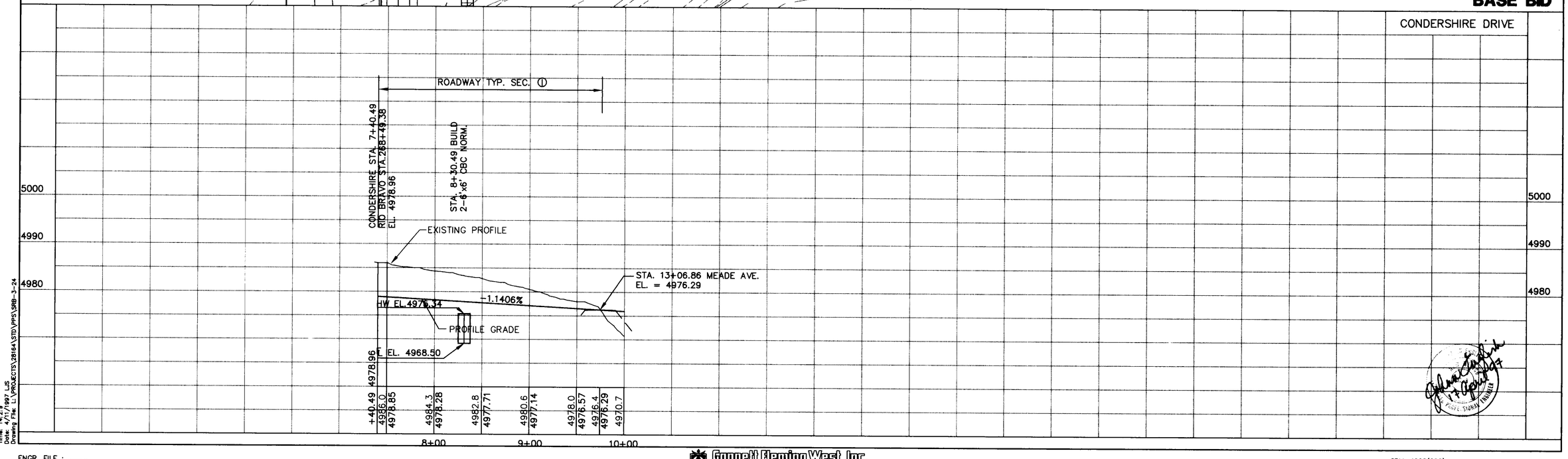



NOTES:

1. SEE SHT. 2-18 FOR CONDERSHIRE/ MEADE INTERSECTION DETAILS

**PLAN**
SCALE: HORIZ. 1"=50'
**PROFILE**
SCALE: HORIZ. 1"=50'
VERT. 1"=10'

**BASE BID**




Time: 14:29
Date: 4/7/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-3-24

ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-24

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-25 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

5+00 10+00 15+00

STA. 5+00 BEGIN FRONTAGE RD.
STA. 7+36.31 BEGIN PAVEMENT
STA. 7+76 FR. RD. RT. BUILD PAVED TURNOUT W=20', L=45'

BASE COURSE
FRONTAGE ROAD
BUILD 6" CUT-OFF CURB FLUSH WITH PAVEMENT
RIGHT-OF-WAY

℄ FRONTAGE ROAD
P.I. STA. 12+65.17
Δ = 08°51'21"
T = 63.38'
D = 7°00'00"
L = 126.51'
R = 818.51'
PC = 12+01.79

PT = 13+98.30
BUILD RETAINING WALL SEE SHT 2-36

℄ SURVEY & CONSTRUCTION RIO BRAVO BLVD.
PC = 15+45.84
℄ FRONTAGE ROAD

℄ FRONTAGE ROAD
P.I. STA. 16+09.23
Δ = 08°51'24"
T = 63.39'
D = 7°00'00"
L = 126.52'
R = 818.51'

PT = 16+72.38
PC = 18+03.74
REMOVE BY OTHERS

STA. 268+49.26
SURV. ℄ - 170' R
BUILD 50 L.F. METAL BARRIER WITH 2 STANDARD TERMINALS

6" BASE COURSE
PT = 19+00.58

STA. 19+56.13
FRONTAGE RD.
STA. 268+49.38
℄ SURVEY AND CONST.
RIO BRAVO BLVD.

BUILD RETAINING WALL SEE SHT 2-36

℄ FRONTAGE ROAD
P.I. STA. 18+65.30
Δ = 89°35'30"
T = 61.55'
D = 92°24'45"
L = 86.95'
R = 62.00'

STA. 268+49.26
SURV. ℄ 200' RT.
BUILD 25' R GRADED CUL-DE-SAC.
(LINEAR GRADING)

LEGEND
- TOP OF SURFACING FRONTAGE RD.

**PLAN**
SCALE: HORIZ. 1"=50'

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

**BASE BID**

FRONTAGE ROAD

ROADWAY TYP. SEC. ①

STA. 5+00 ℄ FRONTAGE ROAD BEGIN CONSTRUCTION BASE COURSE
STA. 7+36.31 ℄ FRONTAGE ROAD BEG. PAVED SECTION
VPI STA = 11+00
M.O. = -0.48'
400.0000' VC
PVC 9+00 ELEV. 4993.65
PVT 13+00 ELEV. 4988.73
VPI STA = 17+00
M.O. = +0.15'
200.0000' VC
PVC 16+00 ELEV. 4983.59
PVT 18+00 ELEV. 4980.74
STA. 19+56.13 ℄ FRONTAGE ROAD

-0.7500%
-1.7110%
-1.1406%

5000 4990 4980 4970

DATUM ELEV 4960.00

| | 5+00 | 6+00 | 7+00 | 8+00 | 9+00 | 10+00 | 11+00 | 12+00 | 13+00 | 14+00 | 15+00 | 16+00 | 17+00 | 18+00 | 19+00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4996.6 | 4996.28 | 4995.6 | 4995.53 | 4995.0 | 4994.78 | 4994.3 | 4992.0 | 4992.6 | 4991.0 | 4991.2 | 4989.8 | 4989.0 | 4987.8 | 4988.1 | 4988.0 | 4988.3 | 4988.0 | 19+56.13 = 4978.96 |
| | 4996.65 | 4996.28 | 4995.90 | 4995.53 | 4995.15 | 4994.78 | 4994.40 | (4993.65) | (4992.90) | (4992.15) | (4990.44) | (4988.73) | 4987.02 | 4986.31 | (4983.59) | (4981.88) | (4980.74) | 4979.60 | |
| | | | | | | | | 4993.65 | 4992.78 | 4991.67 | 4990.32 | 4988.73 | | | 4983.59 | 4982.03 | 4980.74 | | |

Time: 14:4:20
Date: 4/16/97 LJS
Drawing File: L:\PROJECTS\2816A\STD\PPS\SMB-3-25

ENGR. FILE : _____

Cornnett Planning West, Inc.
ENGINEERS AND PLANNERS

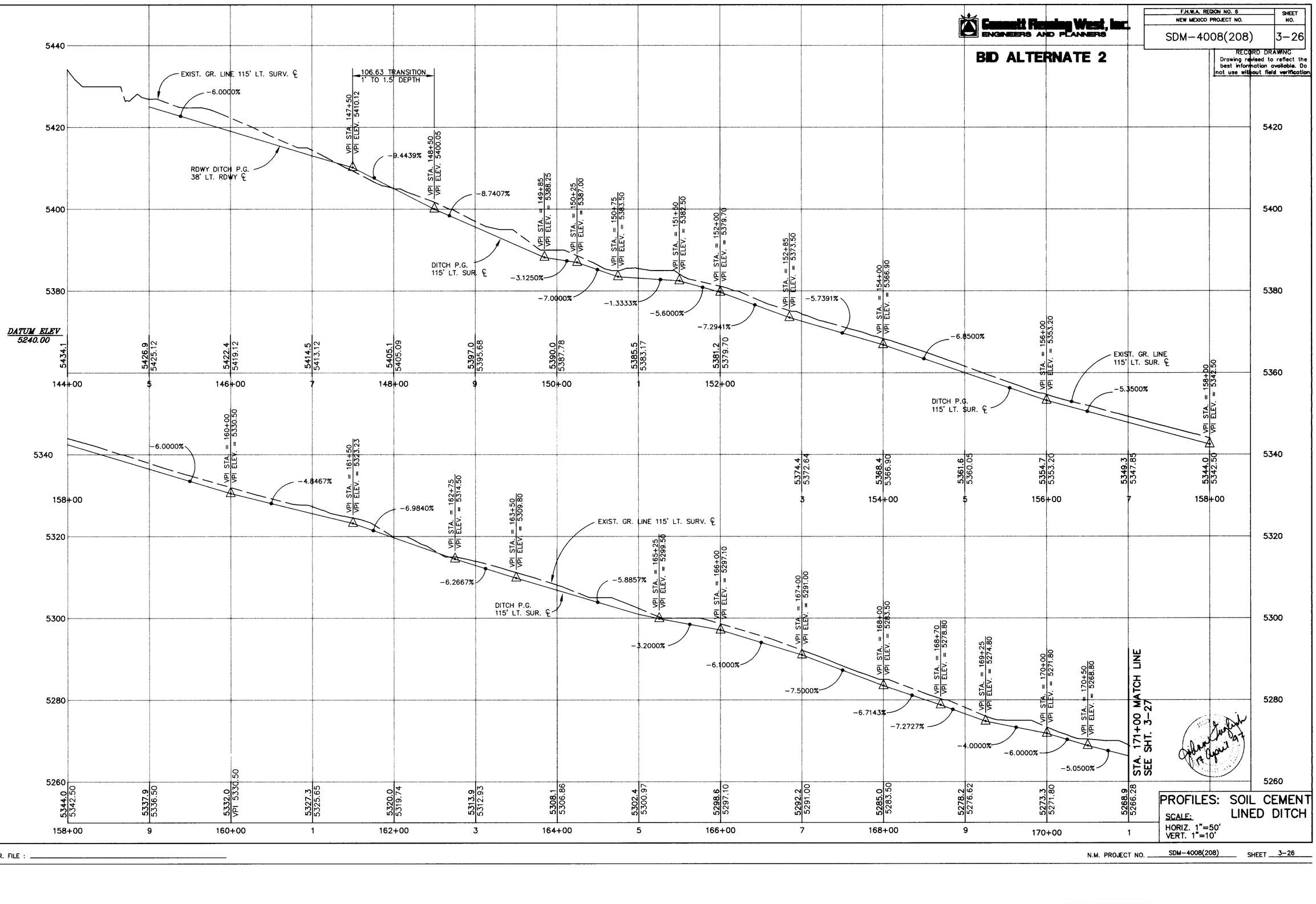
N.M. PROJECT NO. SDM-4008-(208) SHEET 3-25

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-26 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

# BID ALTERNATE 2




PROFILES: SOIL CEMENT LINED DITCH

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

Time: 14:8:31
Date: 4/11/1997 LJS
Drawing File: L:\PROJECTS\26164\STD\PPS\SRB-3-26

ENGR. FILE : _____

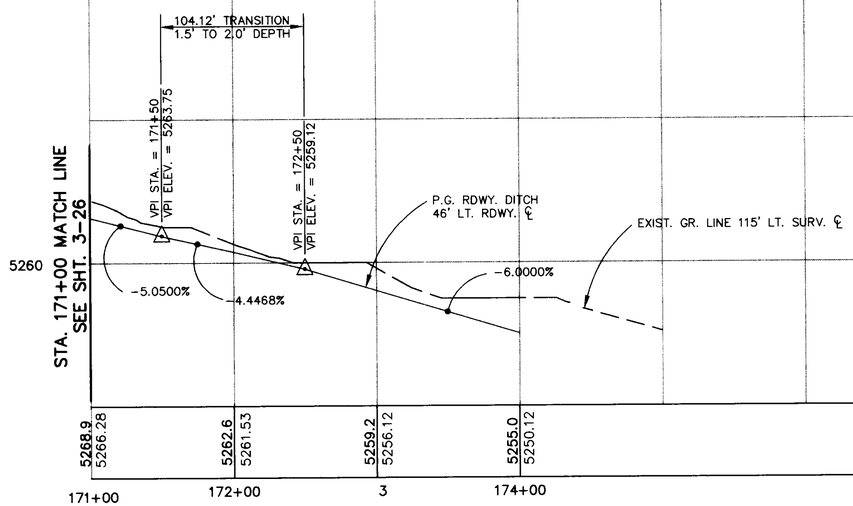
N.M. PROJECT NO. SDM-4008(208) SHEET 3-26

Commatt Fleming West, Inc.
ENGINEERS AND PLANNERS

# BID ALTERNATE 2

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-27 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.




PROFILES: SOIL CEMENT LINED DITCH

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

Time: 14:10:12
Date: 4/11/97 LJS
Drawing File: L:\PROJECTS\2816A\STD\PPS\SRB-3-27

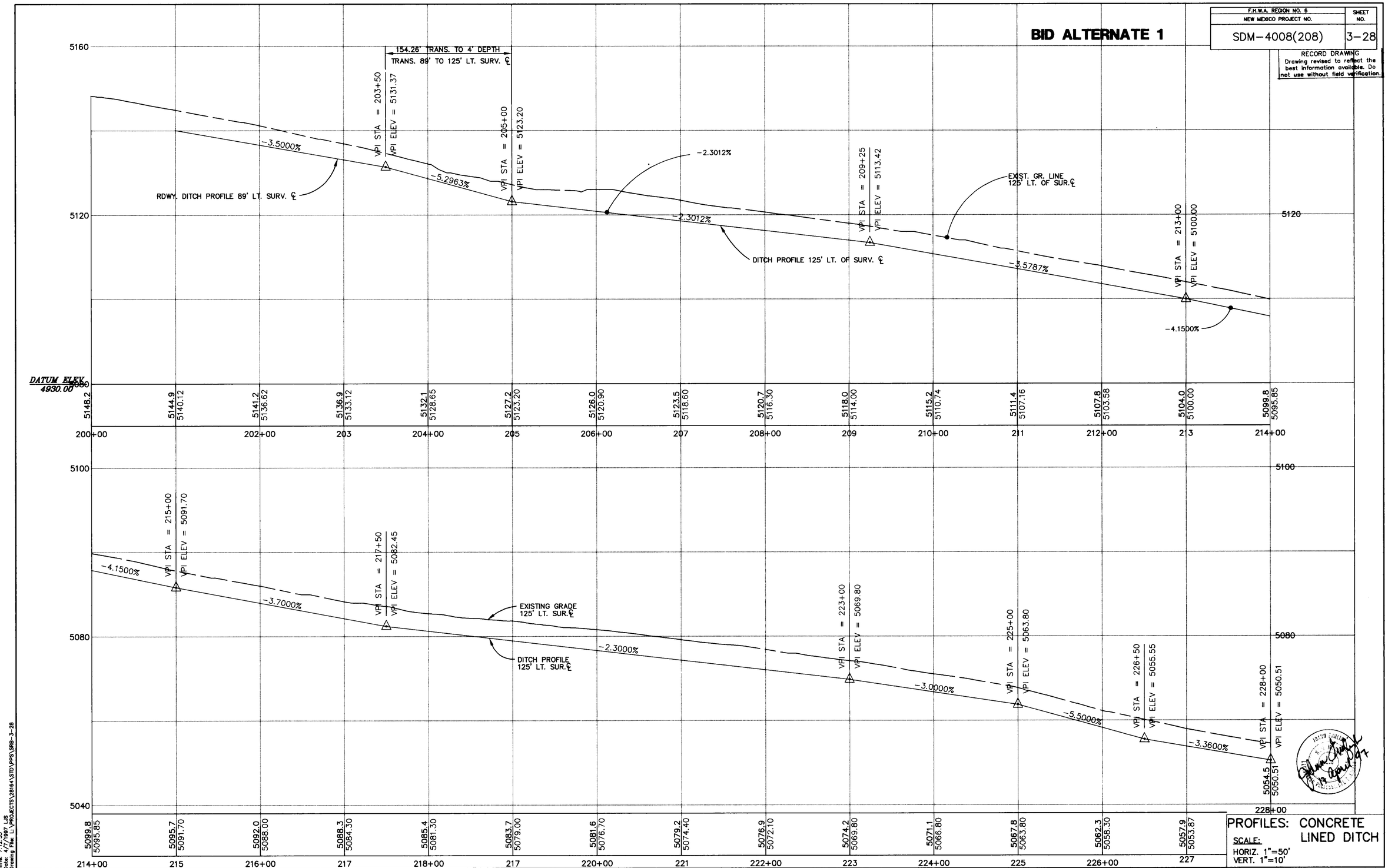
ENGR. FILE : _____

N.M. PROJECT NO. SDM-4008(208) SHEET 3-27

# BID ALTERNATE 1

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-28 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.




## PROFILES: CONCRETE LINED DITCH

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

Time: 7:12:35
Date: 4/7/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\PFS\SRB-3-28

ENGR. FILE :

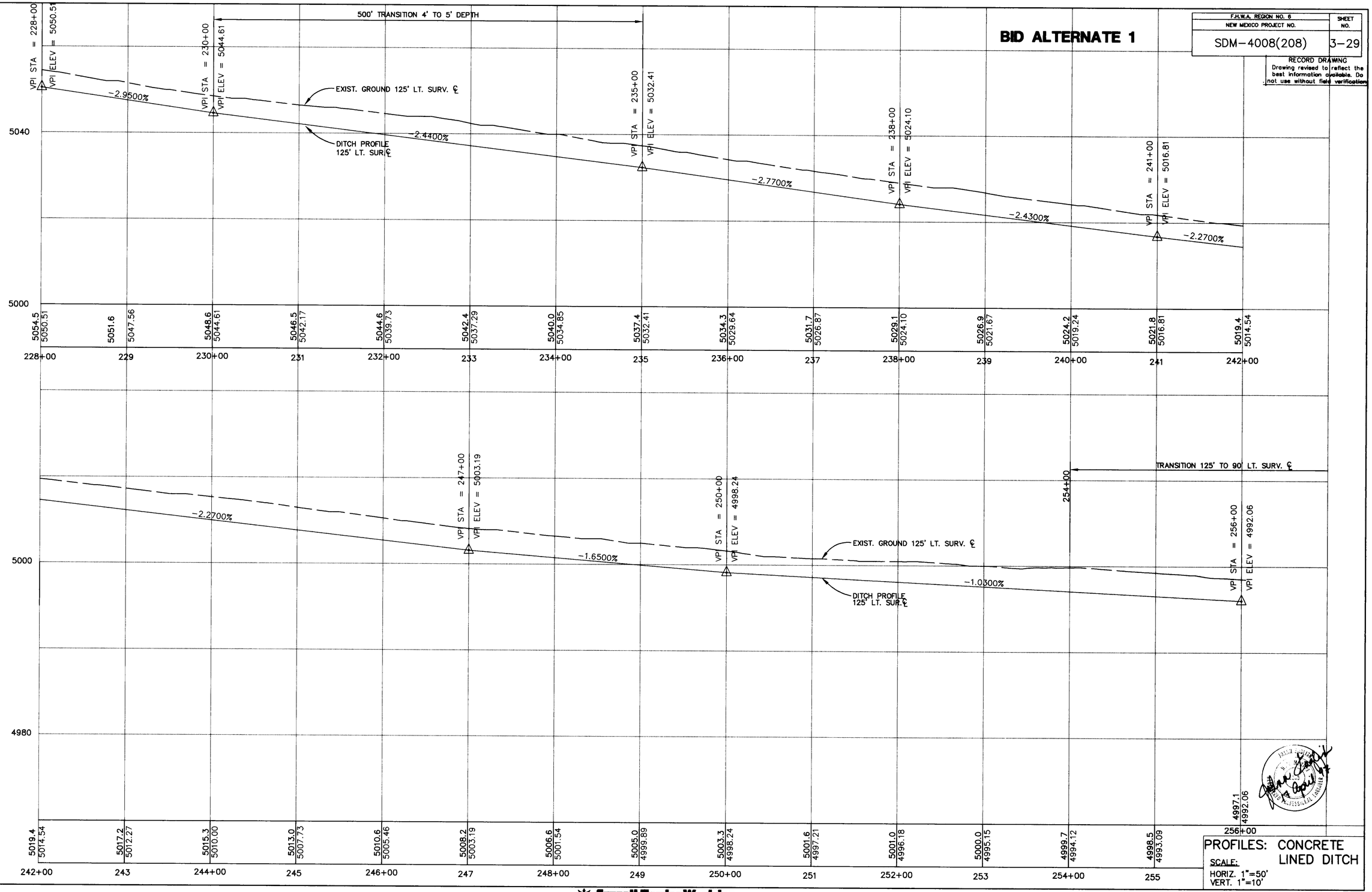
Cornett Planning West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-28

# BID ALTERNATE 1

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-29 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.




## PROFILES: CONCRETE LINED DITCH

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

Time: 7:15:58
Date: 4/7/1987 LJS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-3-29

ENGR. FILE : _____

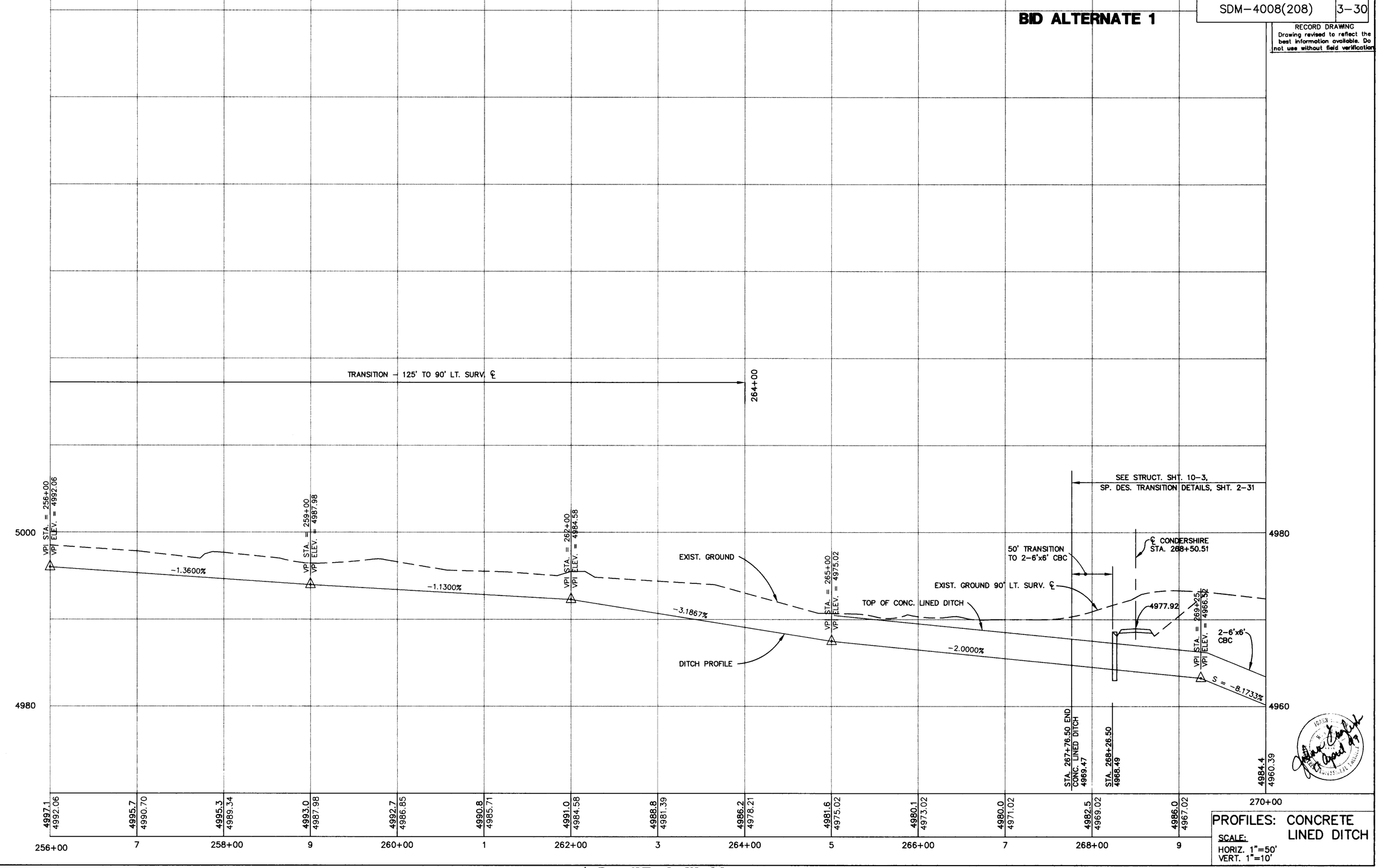
Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-29

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-30 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification

# BID ALTERNATE 1




PROFILES: CONCRETE LINED DITCH

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

Time: 7:22:10
Date: 4/7/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-3-30

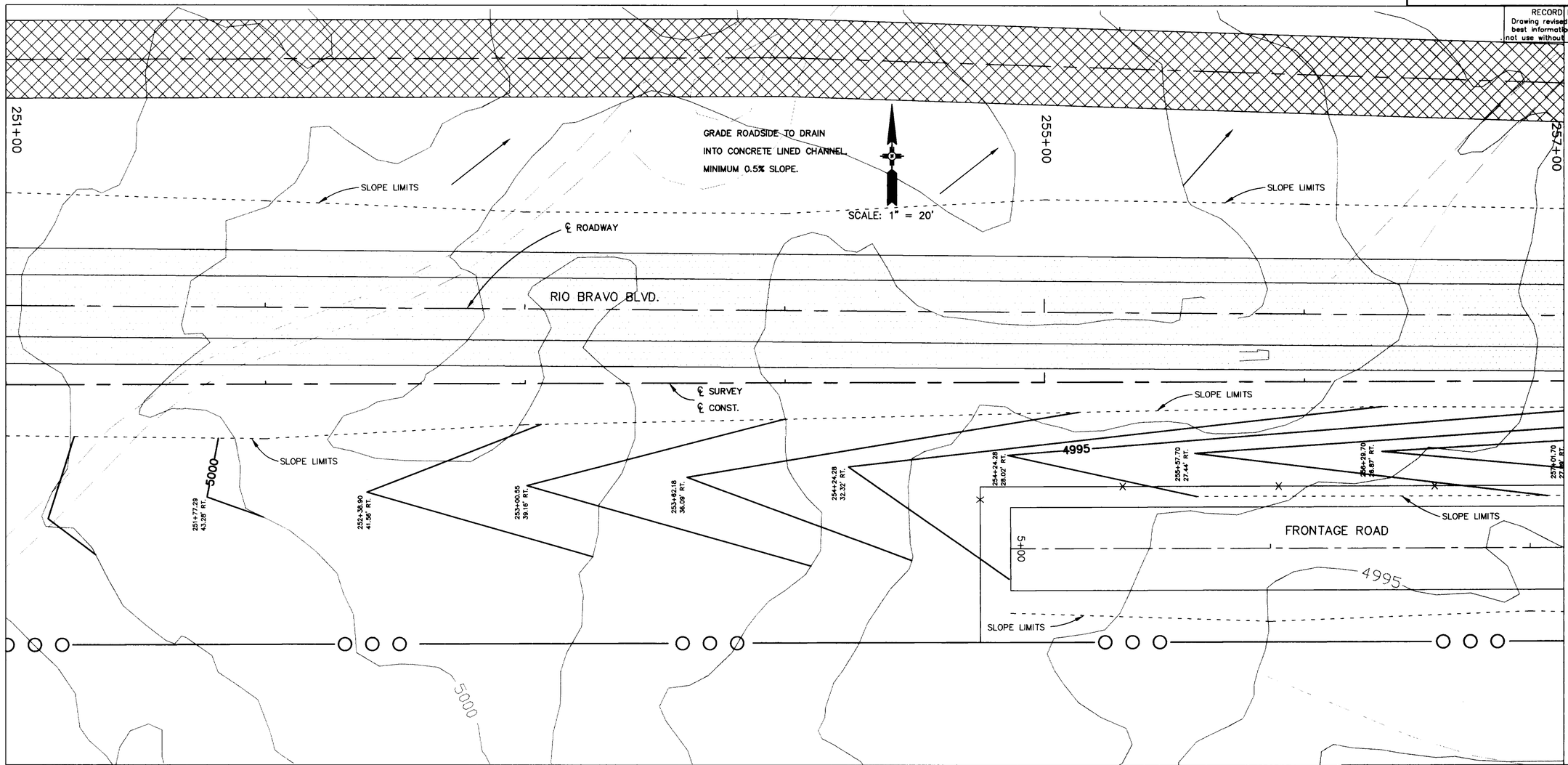
ENGR. FILE : _____

Connell Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-30

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-31 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification




LEGEND

- ROW
- EXISTING CONTOUR
- FINISH GRADE CONTOUR
- SLOPE LIMITS
- CONCRETE LINED DITCH
- ASPHALT PAVING

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

FRONTAGE ROAD
AREA GRADING PLAN

**BASE BID**
**(FRONTAGE ROAD)**

Time: 8:44:20
Date: 4/7/1997 LJS
Drawing File: L:\PROJECTS\2816A\STD\PPS\SRB-3-31

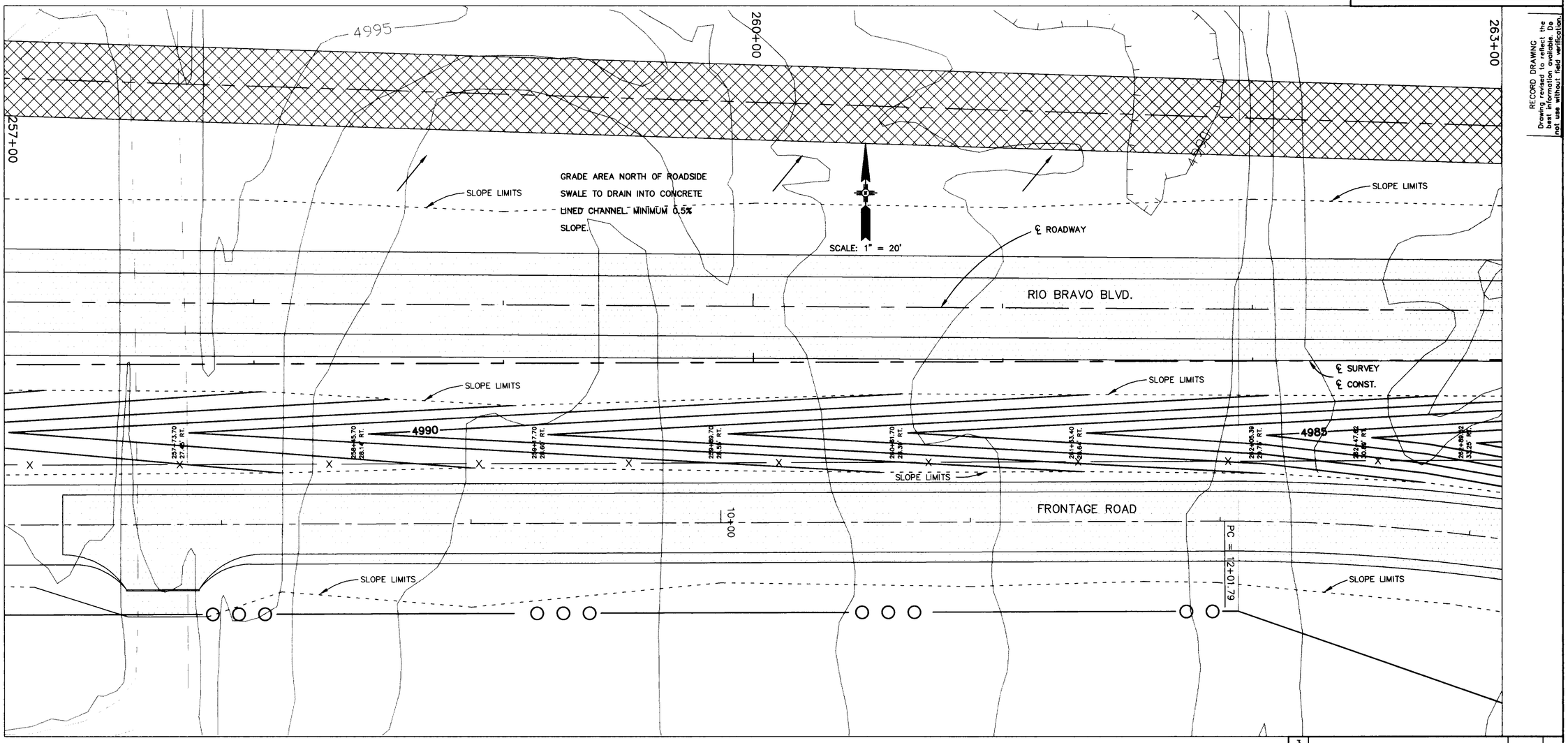
ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008-(208) SHEET 3-31

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-32 |

RECORD DRAWING
Drawing revised to reflect the best information available to date. Do not use without field verification.




LEGEND

- ROW
- EXISTING CONTOUR
- FINISH GRADE CONTOUR
- SLOPE LIMITS
- CONCRETE LINED DITCH
- ASPHALT PAVING

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

**BASE BID (FRONTAGE ROAD)**

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

FRONTAGE ROAD
AREA GRADING PLAN

Time: 8:53:30
Date: 4/10/09 LJS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-3-32

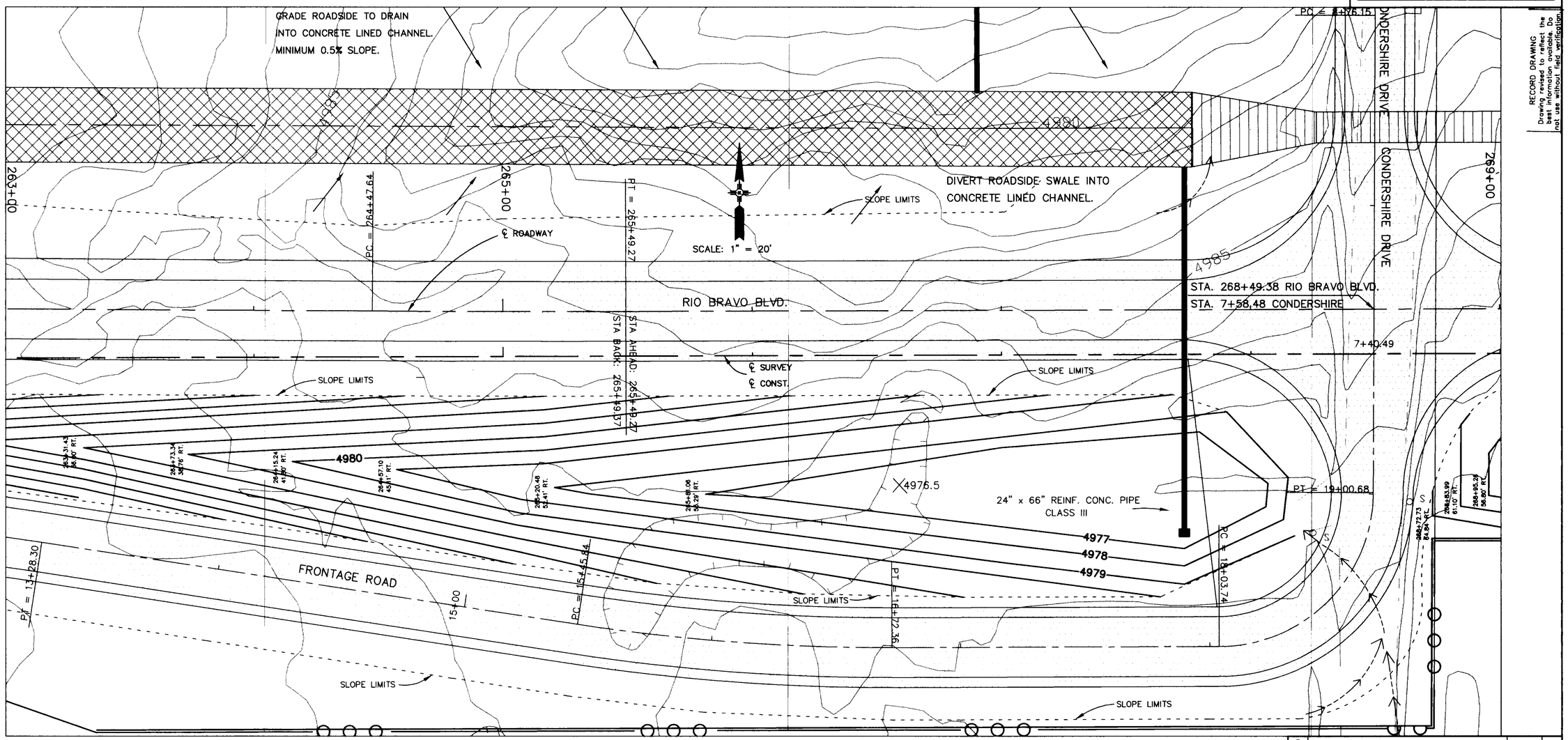
ENGR. FILE : _____

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008-(208) SHEET 3-32

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-33 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification




LEGEND

- ROW
- EXISTING CONTOUR
- FINISH GRADE CONTOUR
- SLOPE LIMITS
- CONCRETE LINED DITCH
- ASPHALT PAVING

REFER TO STRUCTURE SECTION SHEET 10-4

**BASE BID (FRONTAGE ROAD)**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

FRONTAGE ROAD
AREA GRADING PLAN

Time: 9:3:40
Date: 4/7/1997 LdS
Drawing File: L:\PROJECTS\2B164\STD\PPS\SRB-3-33

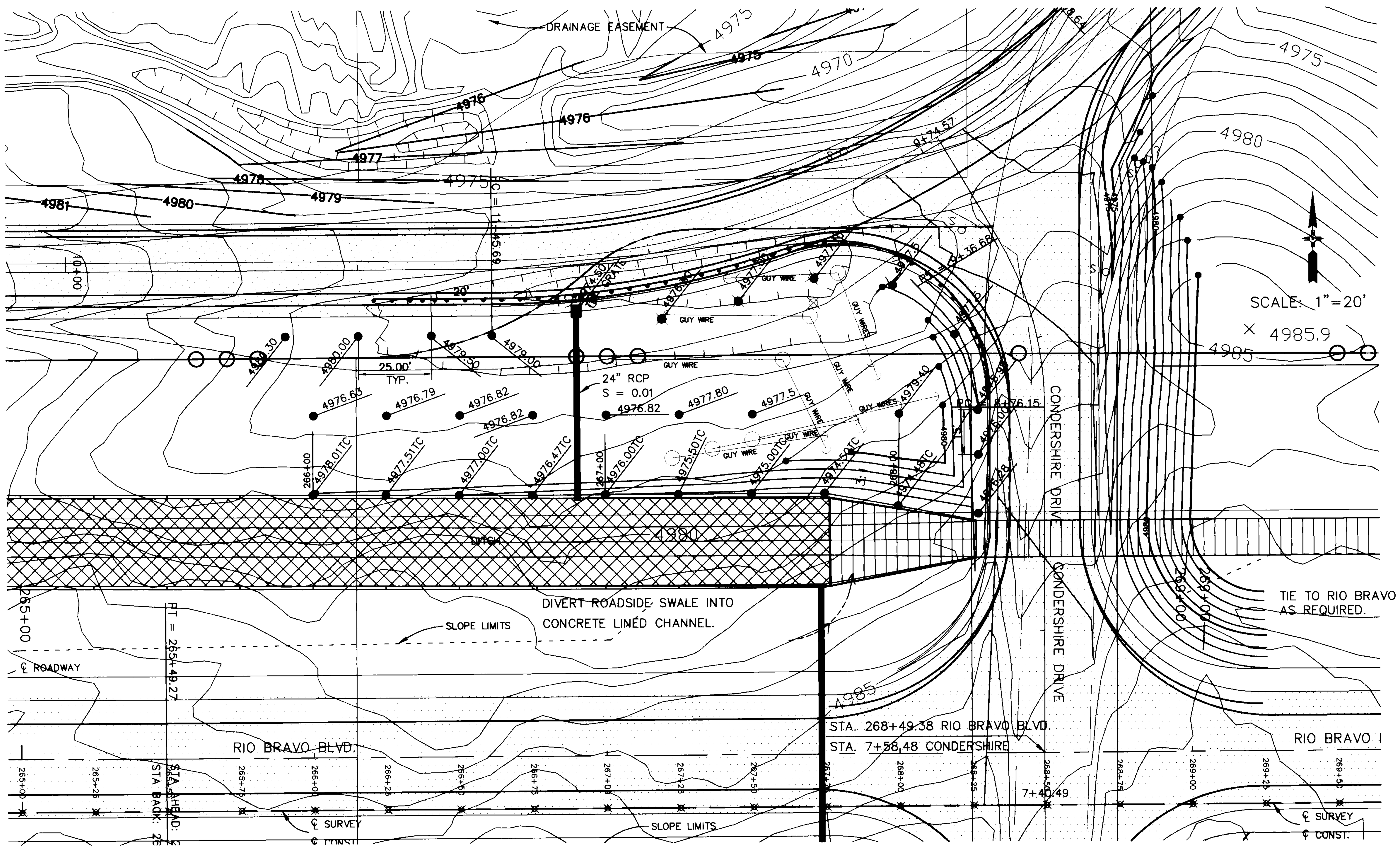
ENGR. FILE : _____

Community Planning West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008-(208) SHEET 3-33

| F.H.W.A. REGION NO. 6 / NEW MEXICO PROJECT NO. | SHEET NO. |
|---|---|
| SDM-4008(208) | ADD |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.




NOTES:

1. UNLESS OTHERWISE STATED ALL POINTS ARE ON AN EVEN 25 FOOT STATION OFF OF MEADE OR RIO BRAVO CENTERLINES.

2. ALL FLOW SHALL BE DIRECTED TO CHANNEL OR GRATE AT PIPES END.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

**GRADING PLAN**
**MEADE & CONDERSHIRE**

Time: 14:18:20
Date: 7/12/1999 BRS
Drawing File: K:\PROJECTS\28164\STD\5-27-98\Grd-das.dwg

ENGR. FILE :

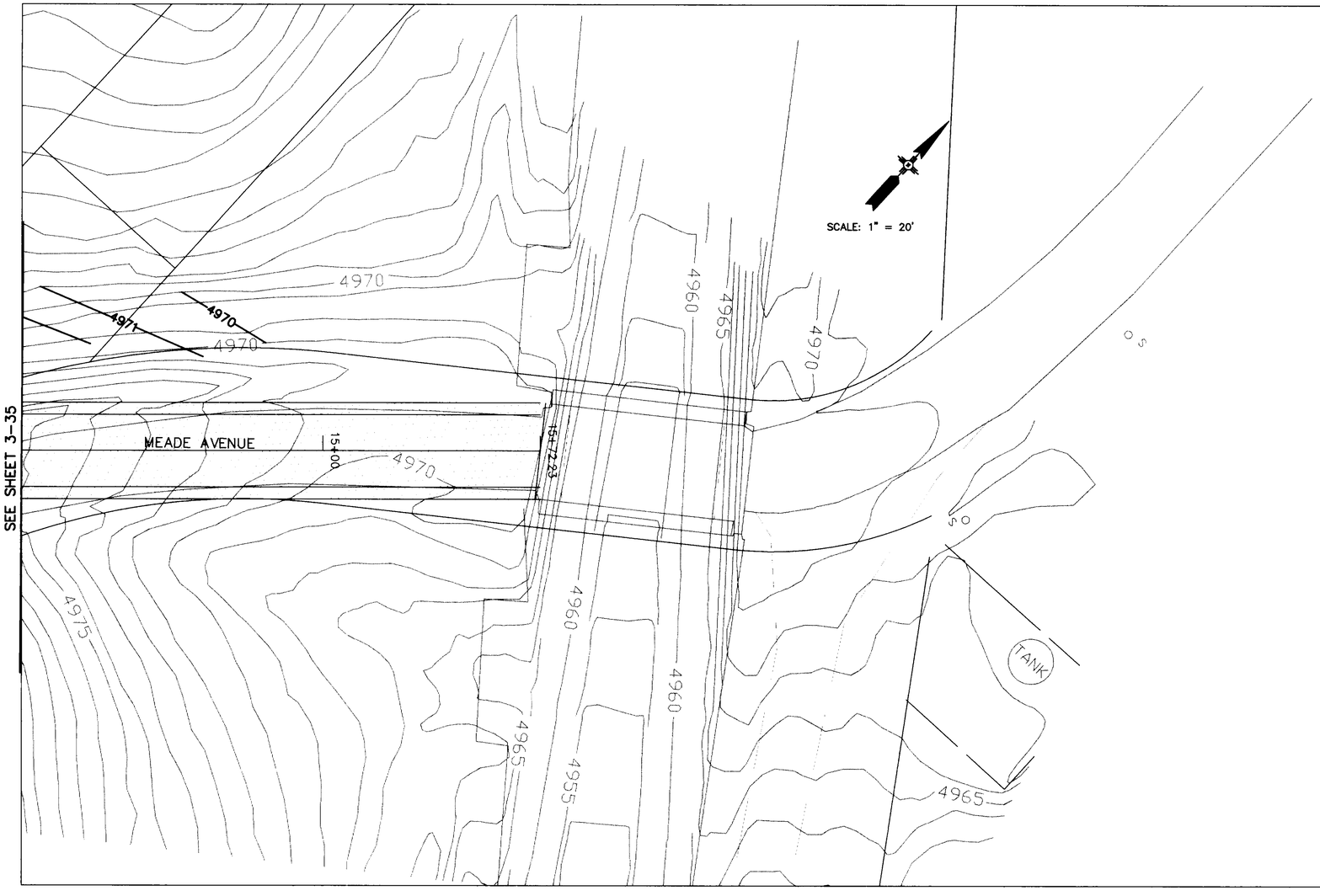
Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET ADD

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-36 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

℄ STA. 13+50 MATCH LINE
SEE SHEET 3-35




LEGEND

- ROW
- EXISTING CONTOUR
- FINISH GRADE CONTOUR
- SLOPE LIMITS
- CONCRETE LINED DITCH
- ASPHALT PAVING

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

**BASE BID**

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

MEADE AVENUE
AREA GRADING PLAN

Time: 9:29:1
Date: 4/7/1997 JS
Drawing File: L:\PROJECTS\2816A\STD\PPS\SRB-3-36

ENGR. FILE : _____

Connett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008-(208) SHEET 3-36

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-37 |

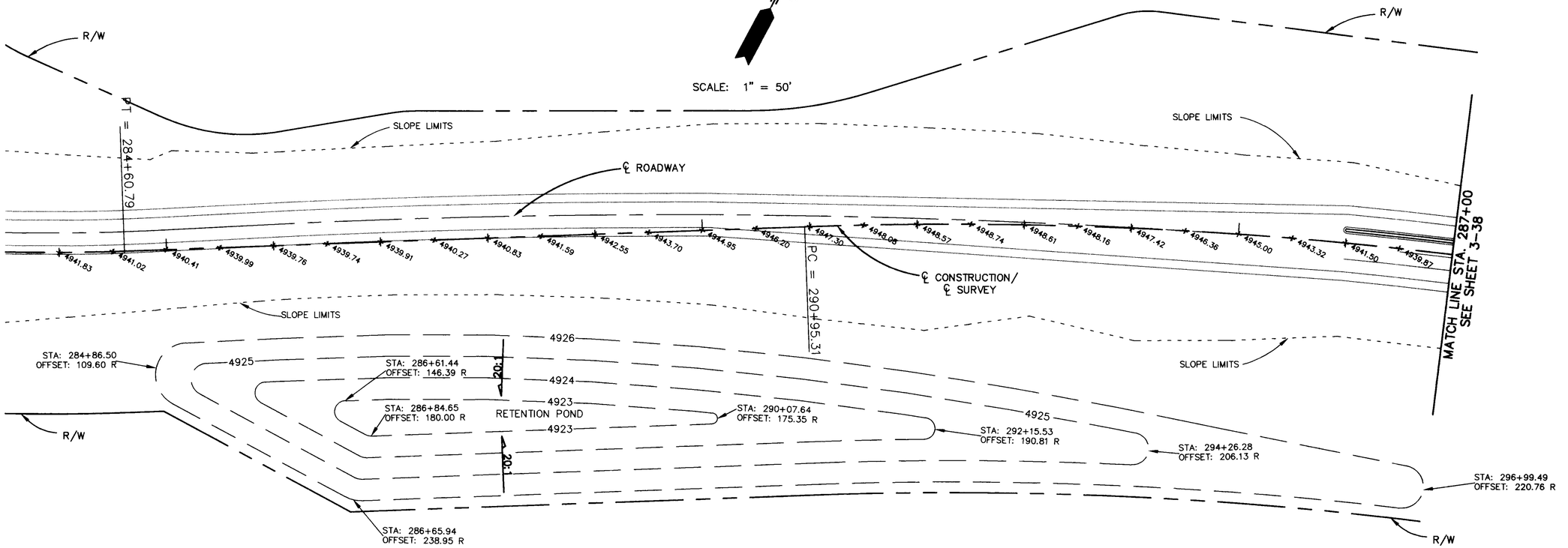
RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

285+00

290+00

295+00

SCALE: 1" = 50'




| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

**BASE BID**

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

RIO BRAVO BLVD. / COORS BLVD.

# SOUTHWEST QUADRANT RETENTION POND GRADING PLAN

Time: 9:32:24
Date: 4/7/1997 JJS
Drawing File: L:\PROJECTS\2816A\STD\PPS\SRB-3-37

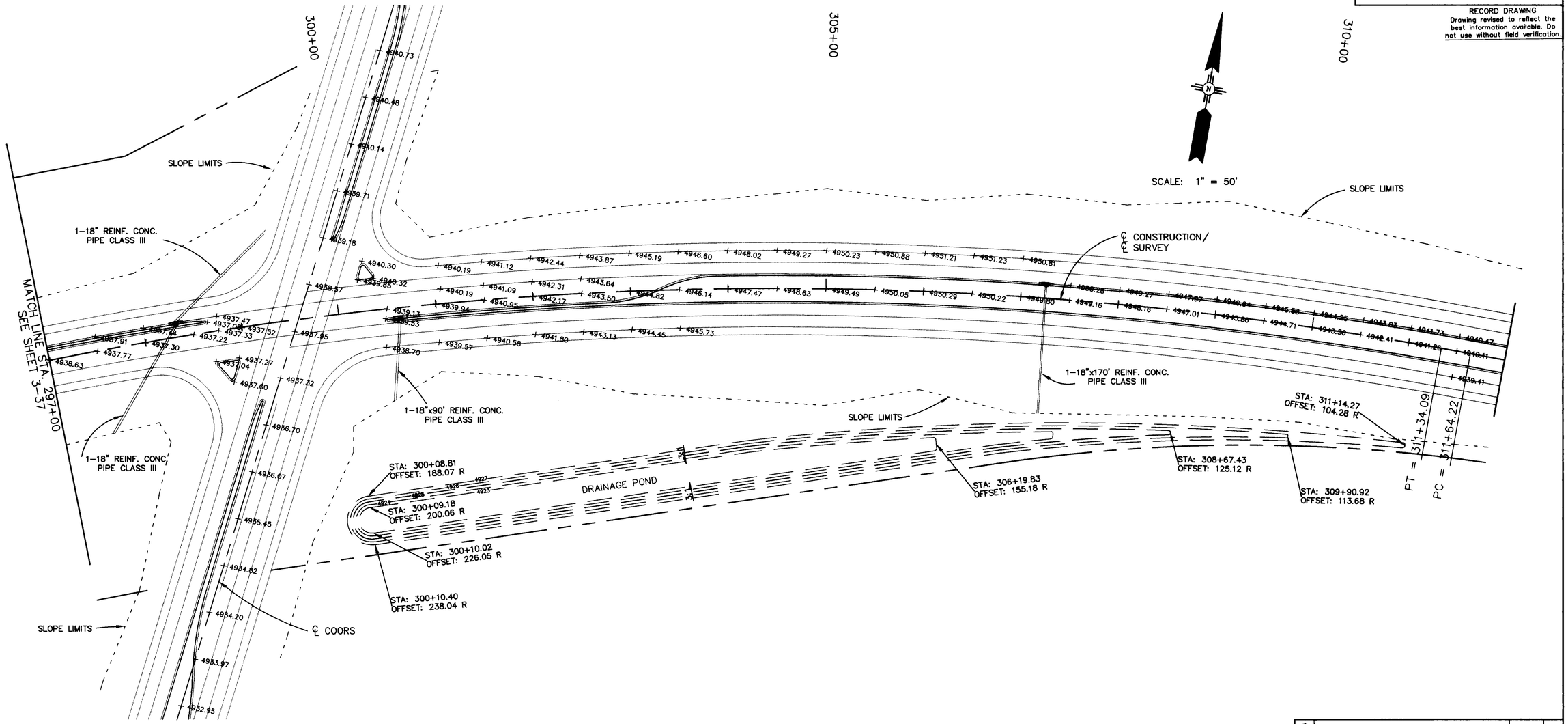
ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 3-37

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 3-38 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.




REFER TO STRUCTURE SECTIONS SHEETS 10-8 AND 10-9.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

SOUTHEAST QUADRANT
RETENTION POND GRADING PLAN

**BASE BID**

Time: 9:38:49
Date: 4/7/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\PPS\SRB-3-38

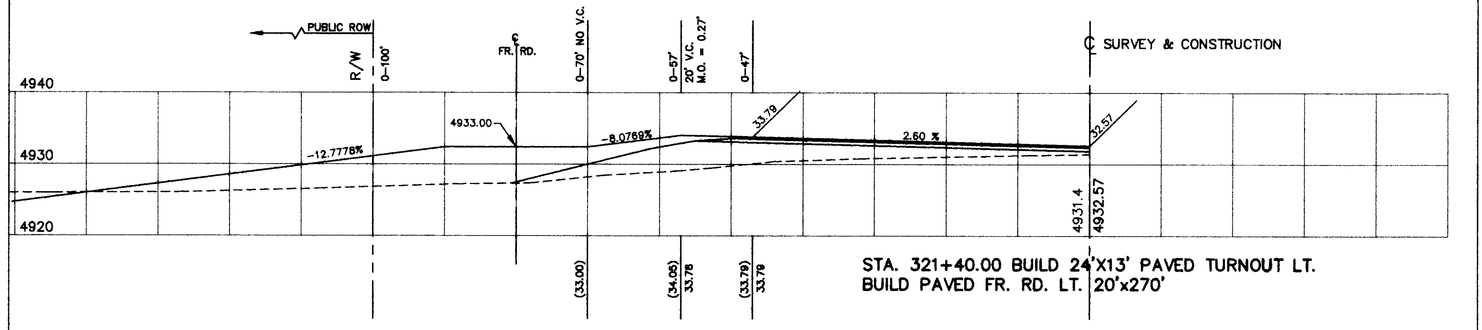
ENGR. FILE : _____

Cornett Flemming West, Inc.
ENGINEERS AND PLANNERS

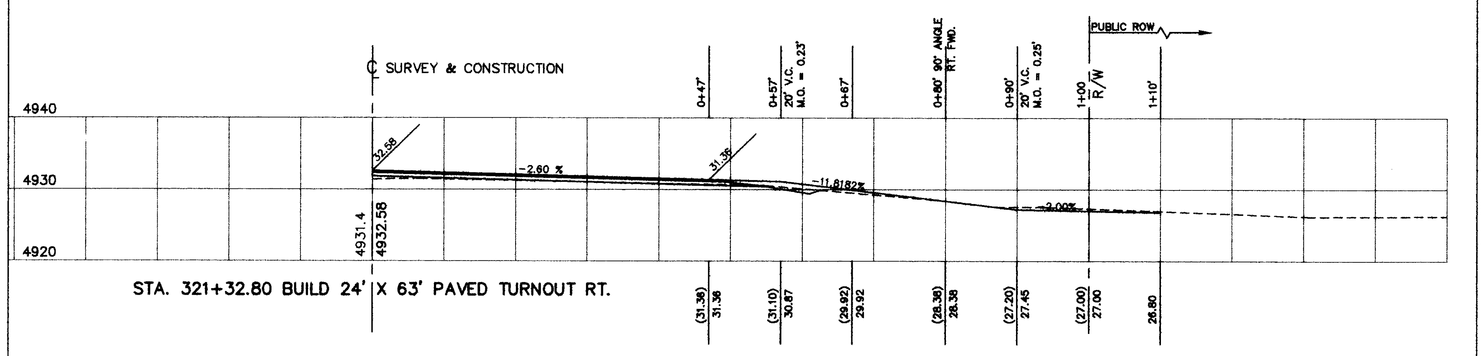
N.M. PROJECT NO. SDM-4008-(208) SHEET 3-38

Time: 10:4:32
Date: 4/7/1997 LJS
Drawing File: L:\PROJECTS\28184\STD\SRB-4-1

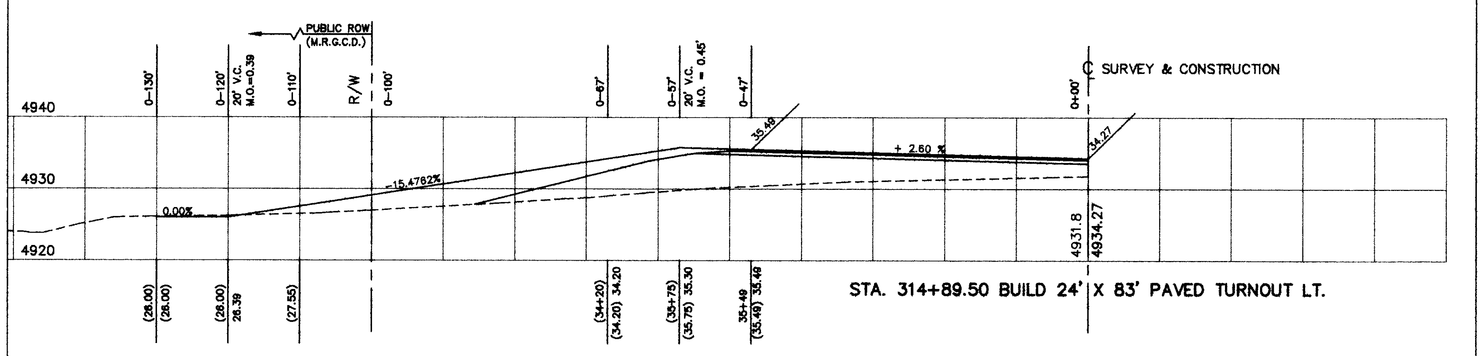
ENGR. FILE :



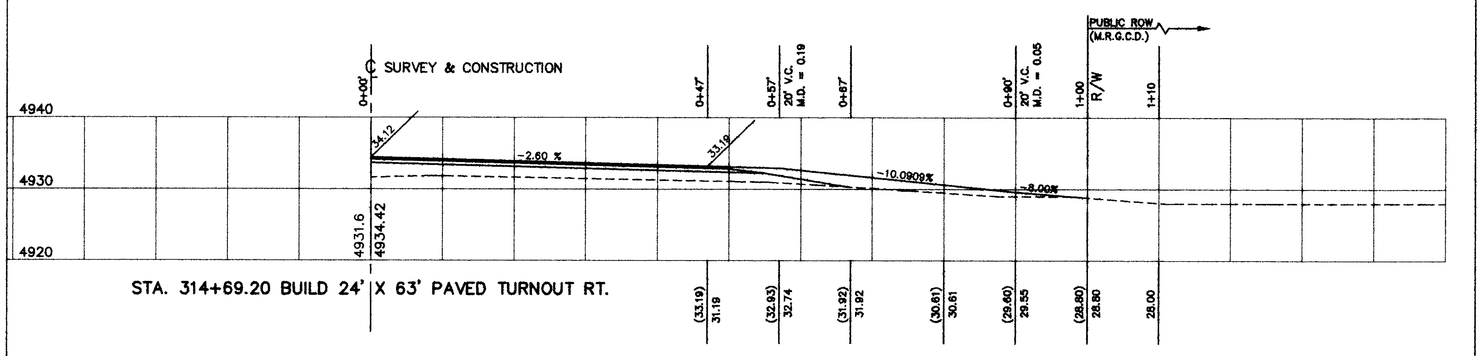

STA. 321+40.00 BUILD 24'X13' PAVED TURNOUT LT.
BUILD PAVED FR. RD. LT. 20'x270'



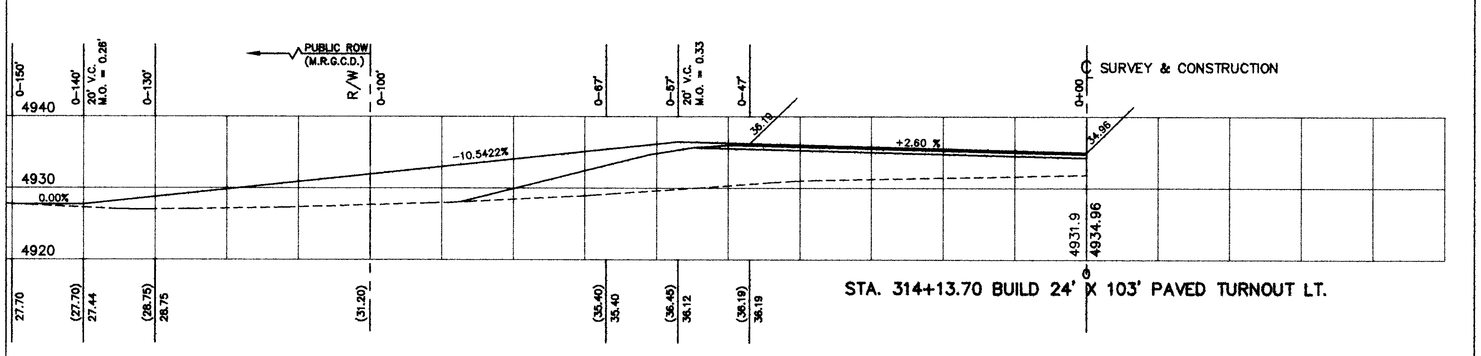

STA. 321+32.80 BUILD 24' X 63' PAVED TURNOUT RT.



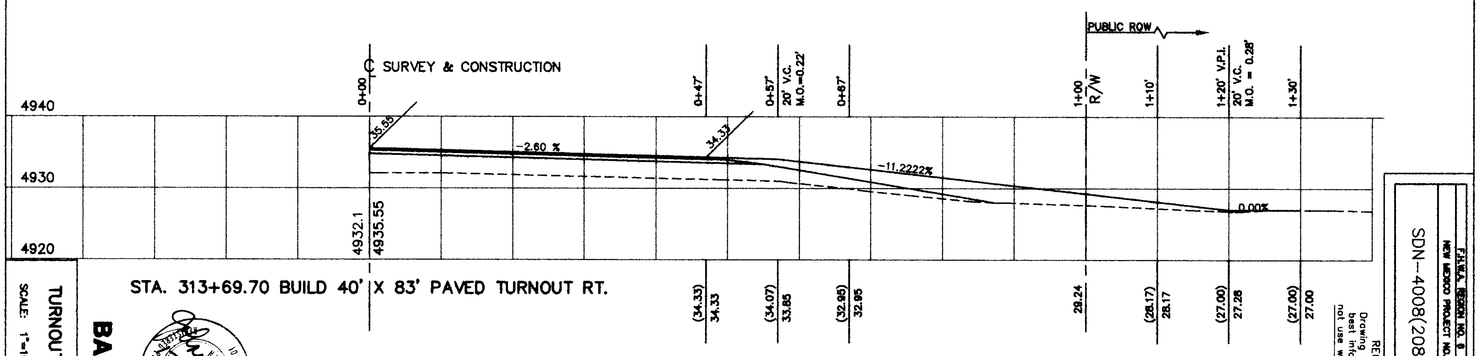

STA. 314+89.50 BUILD 24' X 83' PAVED TURNOUT LT.




STA. 314+69.20 BUILD 24' X 63' PAVED TURNOUT RT.




STA. 314+13.70 BUILD 24' X 103' PAVED TURNOUT LT.




STA. 313+69.70 BUILD 40' X 83' PAVED TURNOUT RT.

N.M. PROJECT NO. SDN-4008(208) SHEET 4-1

TURNOUT PROFILES
SCALE: 1"=10' HORIZ & VERT.

BASE BID

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

| F.A.P.N.M. REGION NO. 8 | |
|---|---|
| NEW MEXICO PROJECT NO. | SHEET NO. |
| SDN-4008(208) | 4-1 |

| | SHEET NO. |
|---|---|
| SDM-4008(208) | 4-2 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.










**BASE BID**

TURNOUT PROFILES
SCALE: 1"=10' HORIZ. & VERT.

ENGR. FILE : _____

N.M. PROJECT NO. SDM-4008(208) SHEET 4-2

Time: 10:10:17
Date: 4/7/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\SRB-4-2

## DRAWINGS REQUIRED

| | SHEET NO. |
|---|---|
| GENERAL NOTES AND QUANTITIES | 5-1 |
| STRUCTURE LOCATION SHEET AND FOUNDATION DATA | 5-2 AND 5-3 |
| SUPERSTRUCTURE DETAILS | 5-4 THRU 5-10 |
| SUBSTRUCTURE DETAILS | 5-11 THRU 5-18a |
| ELASTOMERIC EXPANSION JOINT SEALS FOR BRIDGES SERIAL BJS-001-03 | |
| ELASTOMERIC EXPANSION JOINT SEALS FOR BRIDGES SERIAL BJS-002 | |
| BARRIER RAILING GENERAL DETAILS SERIAL BBR-001 | |
| BARRIER RAILING STANDARD SECTION DETAILS SERIAL BBR-002 | |
| BARRIER RAILING DETAILS AT JOINT SEALS SERIAL BBR-004 | |

## GENERAL NOTES

1. WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 1994 EDITION. SUPPLEMENTARY SPECIFICATIONS AND SPECIAL PROVISIONS.
2. A PENETRATING WATER REPELLENT TREATMENT IS TO BE APPLIED TO THE FOLLOWING CONCRETE SURFACES:
   a) TOP & EDGE OF DECK SLAB
   b) TOP & VERTICAL SURFACES OF ABUTMENT SEATS
   c) TOP & FACE OF ABUTMENT BACKWALLS
   d) ALL SURFACES OF BARRIER RAILING
   e) TOP SURFACES OF APPROACH SLABS
3. FOUNDATION DATA SHOWN ON THE PLANS ARE FOR DESIGNERS ONLY. THE COUNTY IS NOT RESPONSIBLE FOR ANY INTERPRETATIONS OR ASSUMPTIONS MADE BY THE CONTRACTOR BASED ON THIS INFORMATION.
4. SUPERSTRUCTURE CONCRETE SHALL BE CLASS AA. SUBSTRUCTURE CONCRETE SHALL BE CLASS A. CHAMFER ALL EXPOSED EDGES OF CONCRETE STRUCTURES 3/4 INCH UNLESS NOTED OTHERWISE ON THE DETAILS.
5. REINFORCING BARS SHALL CONFORM TO AASHTO SPECIFICATION M31 GRADE 60 UNLESS NOTED OTHERWISE ON THE DETAILS. DIMENSIONS REFER TO THE CENTER LINE OF BARS UNLESS NOTED OTHERWISE.
6. STRUCTURAL STEEL SHALL BE CARBON STEEL CONFORMING TO AASHTO SPECIFICATION M-183, UNLESS NOTED OTHERWISE ON THE DETAILS. SHOP PLANS MUST BE APPROVED BY THE ENGINEER BEFORE FABRICATION IS STARTED.
7. SOLE PLATES SHALL BE STRAIGHTENED AND FINISHED ON ALL SIDES AFTER FABRICATION. THE THICKNESS OF SUCH PLATES SHOWN ON THE DETAILS SHALL BE FINISHED THICKNESS. SEE SHEET 5-10 FOR ADDITIONAL FINISH REQUIREMENTS.
8. ANCHOR BOLTS FOR GIRDERS SHALL BE PLACED IN DRILLED HOLES AND GROUTED IN THE EXACT POSITION AS SHOWN ON THE PLANS.
9. VERIFICATION OF BEAM CAMBER: AFTER BEAMS ARE PLACED AND BEFORE SCREEDS ARE SET, A PROFILE SHALL BE TAKEN ALONG EACH COMPLETE LINE OF BEAMS. IF ACTUAL CAMBER DIFFERS FROM THAT SHOWN ON THE PLANS SO THAT A DEFICIENT SLAB THICKNESS WOULD RESULT, ADJUSTMENTS MUST BE MADE BY THE PROJECT MANAGER.
10. BRIDGE SEATS: AFTER COMPLETION OF THE BRIDGE AND APPROACH ROADWAYS, TOP SURFACES OF ALL BRIDGE SEATS SHALL BE THOROUGHLY CLEANED OF ALL DIRT, CONCRETE AND OTHER DEPOSITED MATERIALS.
11. CONCRETE DECK PLACEMENT: THE CONTRACTOR SHALL PLACE AND MACHINE FINISH THE CONCRETE DECK SLAB IN ACCORDANCE WITH THE DIAGRAM SHOWN ON SHEET 5-8.
12. CORED HOLES IN EXTERIOR BEAMS: AFTER COMPLETION OF SUPERSTRUCTURE, ALL UNUSED CORED HOLES ARE TO BE PACKED WITH GROUT.
13. BRIDGE NUMBER PLATES: THE CONTRACTOR WILL BE REQUIRED TO FURNISH AND PLACE TWO 6"X4"X3/8" BRIDGE NUMBER PLATES CONFORMING TO THE DESIGN FURNISHED ON THIS SHEET. COST OF EACH PLATE IN PLACE IS INCIDENTAL TO THE COMPLETION OF THE WORK AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.
14. SOME EPOXY COATED REBAR ARE DETAILED OVER 40 FEET LONG. THE CONTRACTOR MAY FURNISH SUCH LONGER BARS IN TWO SECTIONS WITH LAP SPLICES. THE LOCATION AND LENGTH OF LAP MUST BE SUBMITTED IN WRITING TWO WEEKS PRIOR TO FABRICATION FOR APPROVAL BY THE ENGINEER. ADDITIONAL BAR LENGTHS REQUIRED BY THE CONTRACTORS PROPOSAL WILL BE AT NO COST TO THE COUNTY.
15. PAINT ALL STRUCTURAL STEEL ITEMS, INCLUDING METAL BRIDGE RAILING, SHALL BE PAINTED IN CONFORMANCE WITH SECTION 545 OF THE NMSHTD STANDARD SPECIFICATION FOR HIGHWAY AND BRIDGE CONSTRUCTION 1994 EDITION. PAINT COLOR SHALL BE DUPONT 25P (PRIMER) & DUPONT 32-A IMRON 333 (TOP COAT) OR APPROVED EQUALS. EMBEDDED PORTIONS OF RODS SHALL NOT BE PAINTED.
16. PERMANENT STEEL DECK FORMS WILL NOT BE ALLOWED FOR SLAB CONSTRUCTION ON THIS STRUCTURE.
17. DECK SLAB SURFACE TEXTURE SHALL CONSIST OF A BROOMED FINISH APPLIED TO THE PLASTIC CONCRETE FOLLOWED BY GROOVING OF THE HARDENED CONCRETE. GROOVING SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AS MODIFIED BY APPROPRIATE SUPPLEMENTAL SPECIFICATIONS OR SPECIAL PROVISIONS, EXCEPT THAT THE LINSEED OIL AND MINERAL SPIRITS MIXTURE SHALL NOT BE APPLIED TO THE GROOVED SURFACE. GROOVING OF HARDENED CONCRETE SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.
18. DECK CURING: THE CONCRETE BRIDGE DECK SHALL BE CURED USING A COMBINATION OF THE WATER AND LINSEED OIL EMULSION METHODS DESCRIBED IN SUBSECTION 511.395 OF THE SPECIFICATIONS. THE LINSEED OIL EMULSION SHALL BE APPLIED IN ACCORDANCE WITH SUBSECTION 511.391 IMMEDIATELY AFTER THE SHEEN HAS DISAPPEARED FROM THE CONCRETE SURFACE. FOLLOWING APPLICATION OF THE LINSEED OIL AND AFTER THE DECK HAS HARDENED SUFFICIENTLY TO PERMIT PLACEMENT OF COTTON OR BURLAP MATS WITHOUT MARRING THE SURFACE, THE DECK SLAB SHALL BE WATER CURED IN ACCORDANCE WITH SUBSECTION 511.392.
19. ~~SPECIAL SURFACE FINISH FOR CONCRETE SURFACES: THE EDGE OF THE DECK SLAB, SOFFIT OF THE SLAB CANTILEVER, EXTERIOR FACES OF BEAMS, WINGWALLS, SIDE OF ABUTMENT SEATS, FRONT OF ABUTMENT SEATS, ABUTMENT BACKWALL DOWN TO ONE FOOT BELOW FINISH GRADE, BARRIER RAILING, AND SLOPE PAVING SHALL RECIEVE A SPECIAL SURFACE FINISH IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 511.385. THE FINISH SHALL BE BY THOROSEAL. COLORS ARE AS FOLLOWS: THE EDGE OF THE DECK SLAB, SOFFIT OF THE SLAB CANTILEVER, WINGWALLS, SIDE OF ABUTMENT SEATS, TOP OF ABUTMENT SEATS, FRONT OF ABUTMENT SEATS, ABUTMENT BACKWALL DOWN TO ONE FOOT BELOW FINISH GRADE SHALL BE (ALGERIAN RED)54-5U. EXTERIOR FACES OF BEAMS SHALL BE (WINDWARD BLUE)55-4U. BARRIER RAILING AND SLOPE PAVING SHALL BE (BRONZE MUM)53-22U. A 1'x1' COLOR SAMPLE PANEL FOR EACH COLOR FOR CONCRETE AND STEEL SURFACES SHALL BE PREPARED AND APPROVED BY THE PROJECT MANAGER PRIOR TO THE CONTRACTOR ORDERING ANY MATERIALS. THESE PANELS SHALL BE USED AS A CONTROL TO MATCH AREAS GIVEN THE SPECIAL SURFACE FINISH. THE COST OF THE SPECIAL SURFACE FINISH IS TO BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE WORK AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.~~
20. PREFORMED BITUMINOUS JOINT FILLER: ALL PREFORMED BITUMINOUS JOINT FILLER SHALL CONFORM TO AASHTO SPECIFICATION M213. COST OF ALL JOINT IN PLACE IS INCIDENTAL TO THE COMPLETION OF THE WORK AND NO DIRECT PAYMENT WILL BE MADE THERFOR.
21. ELASTOMERIC BEARING PADS: ALL FAYING SURFACES OF PADS, CONCRETE AND STEEL PLATES SHALL BE THOROUGHLY CLEANED IN TOLUENE OR OTHER APPROVED SOLVENTS TO REMOVE ALL GREASE, DIRT AND OTHER CONTAMINENTS PRIOR TO PLACING THE PADS. THE 10 PERCENT MAXIMUM COMPRESSIVE STRAIN REQUIREMENTS SHALL CONTINUE TO APPLY.

## DESIGN DATA

DESIGN IS IN ACCORDANCE WITH AASHTO SPECIFICATIONS 1992 EDITION AND CURRENT INTERIMS.

DESIGN STRESSES: STRUCTURAL STEEL-AASHTO M-183, FS=20,000. PSI

REINFORCED CONCRETE:
SUPERSTRUCTURE: F'C=3,000. PSI AT 28 DAYS
F'C=1,200. PSI FS=24,000. PSI
SUBSTRUCTURE: F'C=3,000. PSI AT 28 DAYS
FC=1,200. PSI FS=24,000. PSI GRADE 60
N=9

LIVE LOAD: HS-20-44

WEARING SURFACE: 30 PSF ALLOWANCE FOR FUTURE WEARING SURFACE AND 1/4" MONOLITHIC CONCRETE.

HORIZONTAL EARTH PRESSURE: 30 LBS./CU. FT. EQUIVALENT FLUID PRESSURE AND 2 FT. SURCHARGE.

WIND VELOCITY: 80 MPH

## SPECIAL PROVISIONS

MODIFYING SECTION 511 - CONCRETE STRUCTURES - DATED (5/6/94)

MODIFYING SECTION 512 - SUPERSTRUCTURE CONCRETE - DATED (6/25/96)

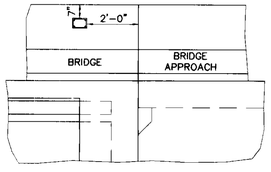
MODIFYING SECTION 532 - PENETRATING WATER REPELLANT TREATMENT - DATED (6/28/94)

MODIFYING SECTION 541 - STEEL STRUCTURES - DATED (7/2/96)

MODIFYING SECTION 560 - ELASTOMERIC BEARING PADS - DATED (5/14/96)

FOR GEOGRID REINFORCEMENT - SECTION 604-C - DATED (9/12/95)

⚠ 19. SPECIAL SURFACE FINISH FOR CONCRETE SURFACES: THE EDGE OF THE DECK SLAB, SOFFIT OF THE SLAB CANTILEVER, EXTERIOR FACES OF BEAMS, WINGWALLS, SIDE OF ABUTMENT SEATS, FRONT OF ABUTMENTS SEATS, ABUTMENT BACKWALL DOWN TO ONE FOOT BELOW FINISH GRADE, BARRIER RAILING, AND SLOPE PAVING SHALL RECEIVE A SPECIAL SURFACE FINISH IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 511.385. THE FINISH SHALL BE BY THERMOSEAL COLORS AS FOLLOWS: THE BARRIER RAILING, EDGE OF THE DECK SLAB, SOFFIT OF THE SLAB CANTILEVER, WINGWALLS, SIDE OF ABUTMENT SEATS, FRONT OF ABUTMENT SEATS, ABUTMENT BACKWALL DOWN TO ONE FOOT BELOW FINISH GRADE, AND THE EARTH RETAINING WALL COPING (EXCEPT ACCENT STRIP) SHALL BE (BAGDAD GREY) 44-17M. EXTERIOR FACES OF BEAMS, ACCENT STRIP ON EARTH RETAINING WALL COPING, AND SLOPE PAVING SHALL BE (MOROCCO RED) 54-3U. A 1'X1' COLOR SAMPLE PANEL FOR EACH COLOR FOR CONCRETE AND STEEL SURFACES SHALL BE PREPARED AND APPROVED BY THE PROJECT MANAGER PRIOR TO THE CONTRACTOR ORDERING ANY MATERIALS. THESE PANELS SHALL BE USED AS A CONTROL TO MATCH AREAS GIVEN THE SPECIAL SURFACE FINISH. THE COST OF THE SPECIAL SURFACE FINISH IS TO BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE WORK AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.




AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 5-1 |

CN 2838

## ESTIMATED QUANTITIES

| ITEM NO. | ITEM | UNIT | SUPER STRUCT. | SUB STRUCTURE | | | TOTAL |
|---|---|---|---|---|---|---|---|
| | | | | ABUT. NO. 1 | ABUT. NO. 2 | APPROACH | |
| 506000 | EARTH RETAINING WALL | SQ.FT. | | 2825 | 6305 | | 9130 |
| 511240 | STRUCTURAL CONCRETE, CLASS B-6" | SQ.YD. | | 240 | 200 | | 440 |
| 511300 | SUBSTRUCTURE CONCRETE, CLASS A | CU.YD. | | 196 | 196 | | 392 |
| 512000 | SUPERSTRUCTURE CONCRETE | CU.YD. | 215 | | | 72 | 287 |
| 513074 | PRESTRESSED CONCRETE BRIDGE MEMBER TYPE 74 | LIN.FT. | 1168 | | | | 1168 |
| 514032 | CONCRETE BARRIER RAILINGS 32" | LIN.FT. | 302 | 31 | 31 | | 364 |
| 540060 | REINFORCING BARS GRADE 60 | POUND | 22410 | 24260 | 24260 | 8680 | 79610 |
| 540160 | EPOXY COATED REINFORCING BARS GRADE 60 | POUND | 22780 | | | 3000 | 25780 |
| 540200 | WELDED WIRE FABRIC | POUND | | 910 | 760 | | 1670 |
| 541000 | STRUCTURAL STEEL FOR CONCRETE BRIDGES | POUND | 2770 | | | | 2770 |
| 562000 | BRIDGE JOINT STRIP SEAL | LIN.FT. | | 63 | 63 | | 126 |
| 604300 | GEOGRID REINFORCEMENT | SQ.YD. | | 1170 | 1160 | | 2330 |
| 709025 | RIGID ELECTRICAL CONDUIT 2 1/2" (DIA.) | LIN.FT. | 364 | | | | 364 |
| ⚠ 532100 | Anti-Graffiti Protective Coating | L.S. | | | | | L.S. |
| ⚠ 532100001 | Anti-Graffiti Protective Coating for Exposed Br. Surfaces | SQ.FT. | | | | | 18271 |

## INCIDENTAL ITEMS

1. BRIDGE NUMBER PLATES
2. PREFORMED BITUMINOUS JOINT FILLER (M213)
3. ELASTOMERIC BEARING PADS
4. DECK SLAB SURFACE TEXTURING
5. REINFORCING STRAPS AT ABUTMENT BACKWALL
6. 8" JUNCTION BOXES, 2 1/2" FLEXIBLE CONDUIT, AND APPURTANCES FOR LIGHTING.
7. THREADED INSERTS, PIPE HANGERS, BACKWALL BLOCKOUTS, AND SLEEVING FOR SANITARY SEWER LINE.
8. PENETRATING WATER REPELLANT TREATMENT.

NOTE: ITEMS LISTED ABOVE ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. PARAGRAPH 104.01 OF THE STANDARD SPECIFICATIONS APPLIES. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIAL REQUIRED BY SPECIAL PROVISIONS, SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS OR THE STANDARD SPECIFICATIONS.

## CAPACITY RATINGS

INVENTORY HS 20
OPERATION HS 33

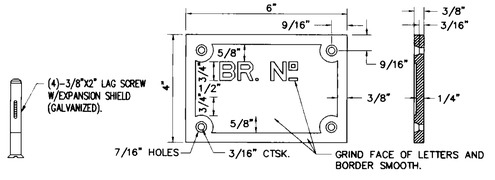
I HEREBY CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS SHOWN HEREON AND THAT THESE DRAWINGS HAVE BEEN REVISED IN ACCORDANCE WITH INFORMATION PROVIDED BY THE CONTRACTOR AND THE BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT.

Carlos G. Padilla 9/9/99

CARLOS G. PADILLA, P.E. NO. 11040 DATE

CARLOS G. PADILLA NEW MEXICO 11040 REGISTERED PROFESSIONAL ENGINEER 9/9/99

## BRIDGE NUMBER PLATE DETAILS




NOTES:
1. 2 PLATES WITH BOLTS REQUIRED FOR EACH BRIDGE. MATERIAL EQUALS CAST IRON. RAISED BLOCK LETTERS OF NEAT SQUARE CUT DESIGN. GRIND FACE, & HOT DIPPED GALV.
2. EACH PLATE IS TO BE PLACED AT EACH END OF THE BRIDGE ON THE ROADWAY FACE OF THE CONCRETE BARRIER RAILING AT THE END OF THE DECK. LOCATE ON RIGHT SIDE AS ONE APPROACHES BRIDGE.

⚠ New Bridge # 9114

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| ⚠ 1 | Bridge No. & Quantities, Note No. 19 | 6/99 | CGP |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

BRIDGE OVER THE AMOLE CHANNEL

GENERAL NOTES AND ESTIMATED QUANTITIES

5-1.DWG

N.M. PROJECT NO. SDM-4008(208) SHEET 5-1

ROTATE 180°

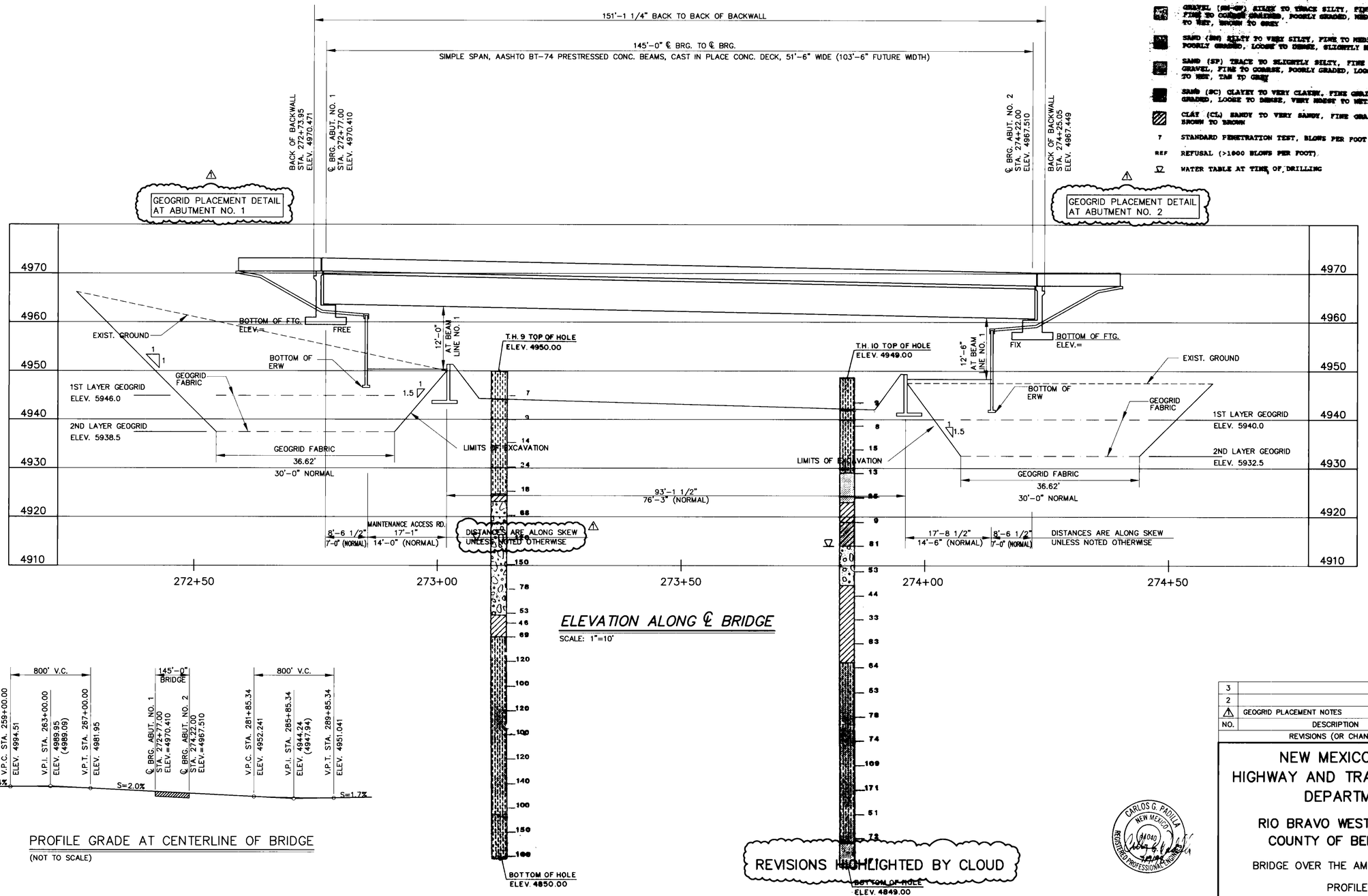
AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 5-3 |

CN 2837

## LEGEND

- GRAVEL (GW-GM) SILTY TO TRACE SILTY, FINE TO COARSE, VERY SANDY, FINE TO COARSE GRAINED, POORLY GRADED, MEDIUM DENSE TO DENSE, SLIGHTLY MOIST TO WET, BROWN TO GREY
- SAND (SW) SILTY TO VERY SILTY, FINE TO MEDIUM GRAINED, SOME GRAVEL, POORLY GRADED, LOOSE TO DENSE, SLIGHTLY MOIST TO WET, BROWN
- SAND (SP) TRACE TO SLIGHTLY SILTY, FINE TO COARSE GRAINED, SOME GRAVEL, FINE TO COARSE, POORLY GRADED, LOOSE TO DENSE, MEDIUM MOIST TO WET, TAN TO GREY
- SAND (SC) CLAYEY TO VERY CLAYEY, FINE GRAINED, SOME GRAVEL, POORLY GRADED, LOOSE TO DENSE, VERY MOIST TO WET, BROWN
- CLAY (CL) SANDY TO VERY SANDY, FINE GRAINED, HARD, MOIST, LIGHT BROWN TO BROWN
- 7 STANDARD PENETRATION TEST, BLOWS PER FOOT
- REF REFUSAL (>1000 BLOWS PER FOOT)
- ▽ WATER TABLE AT TIME OF DRILLING




## ELEVATION ALONG ℄ BRIDGE

SCALE: 1"=10'




## PROFILE GRADE AT CENTERLINE OF BRIDGE

(NOT TO SCALE)

REVISIONS HIGHLIGHTED BY CLOUD

CARLOS G. PADILLA NEW MEXICO 14040 REGISTERED PROFESSIONAL ENGINEER

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | GEOGRID PLACEMENT NOTES | 7/9/98 | CGP |

REVISIONS (OR CHANGE NOTICES)

# NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

## RIO BRAVO WEST EXTENSION
## COUNTY OF BERNALILLO

BRIDGE OVER THE AMOLE CHANNEL

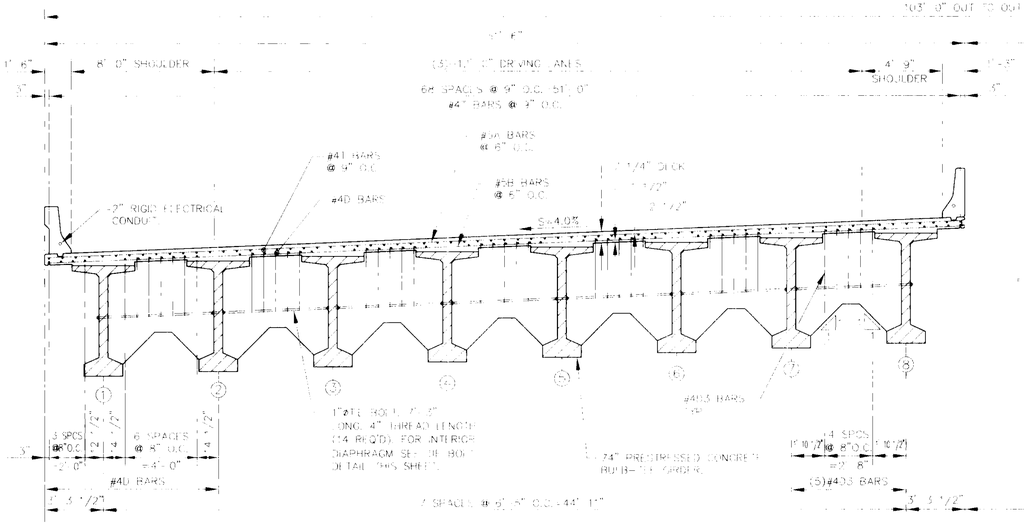
PROFILE

5-3.DWG

N.M. PROJECT NO. SDM-4008(208) SHEET 5-3

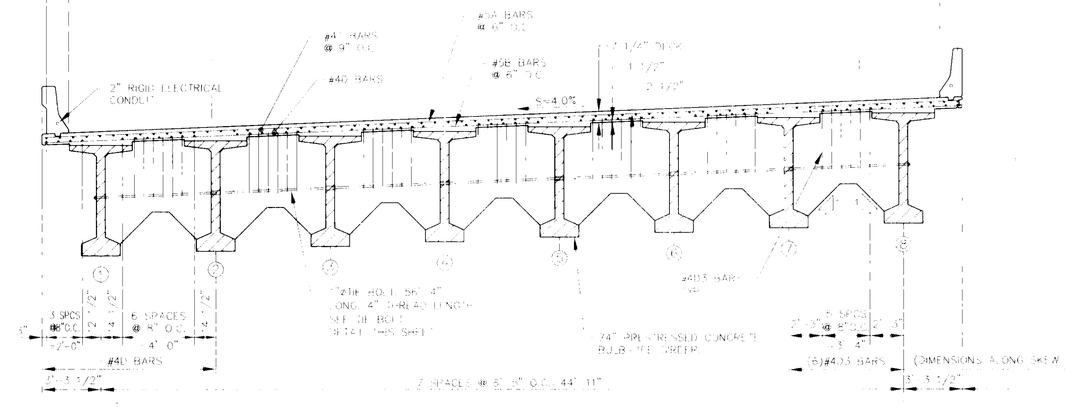
AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6<br>NEW MEXICO PROJECT NO. | SHEET NO. |
|---|---|
| SDM-4008(208) | 5-4 |



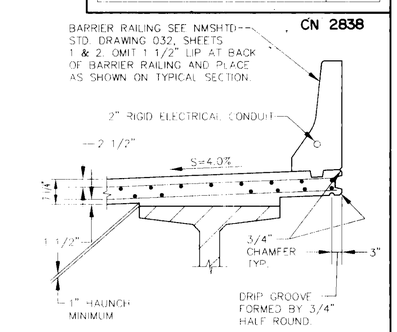

## TRANSVERSE SECTION AT INTERMEDIATE DIAPHRAGMS

SCALE: 1/4"=1'-0"



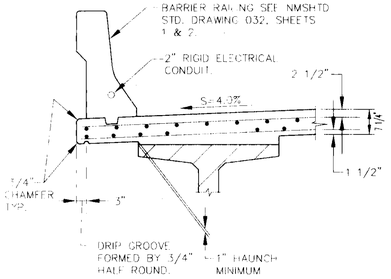

## TRANSVERSE SECTION AT END DIAPHRAGMS

SCALE: 1/4"=1'-0"



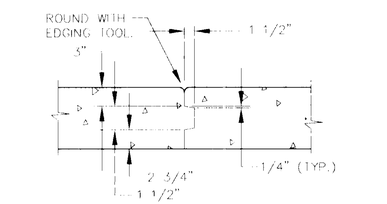

## SLAB DETAIL

NO SCALE
AT BEAM LINE NO. 8




## SLAB DETAIL

NO SCALE
AT BEAM LINE NO. 1

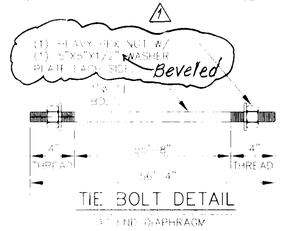



## TRANSVERSE CONSTRUCTION JOINT

NO SCALE

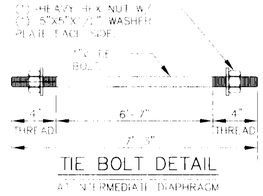
**BASE BID**

Cathy G. Padilla
7/20/99




## TIE BOLT DETAIL

AT END DIAPHRAGM




## TIE BOLT DETAIL

AT INTERMEDIATE DIAPHRAGM

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| ⚠ | Beveled Washer | 6/21/99 | CGP |

REVISIONS (OR CHANGE NOTICES)

# NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

## RIO BRAVO WEST EXTENSION
## COUNTY OF BERNALILLO

BRIDGE OVER THE AMOLE CHANNEL
SUPERSTRUCTURE DETAILS
TYPICAL SECTION

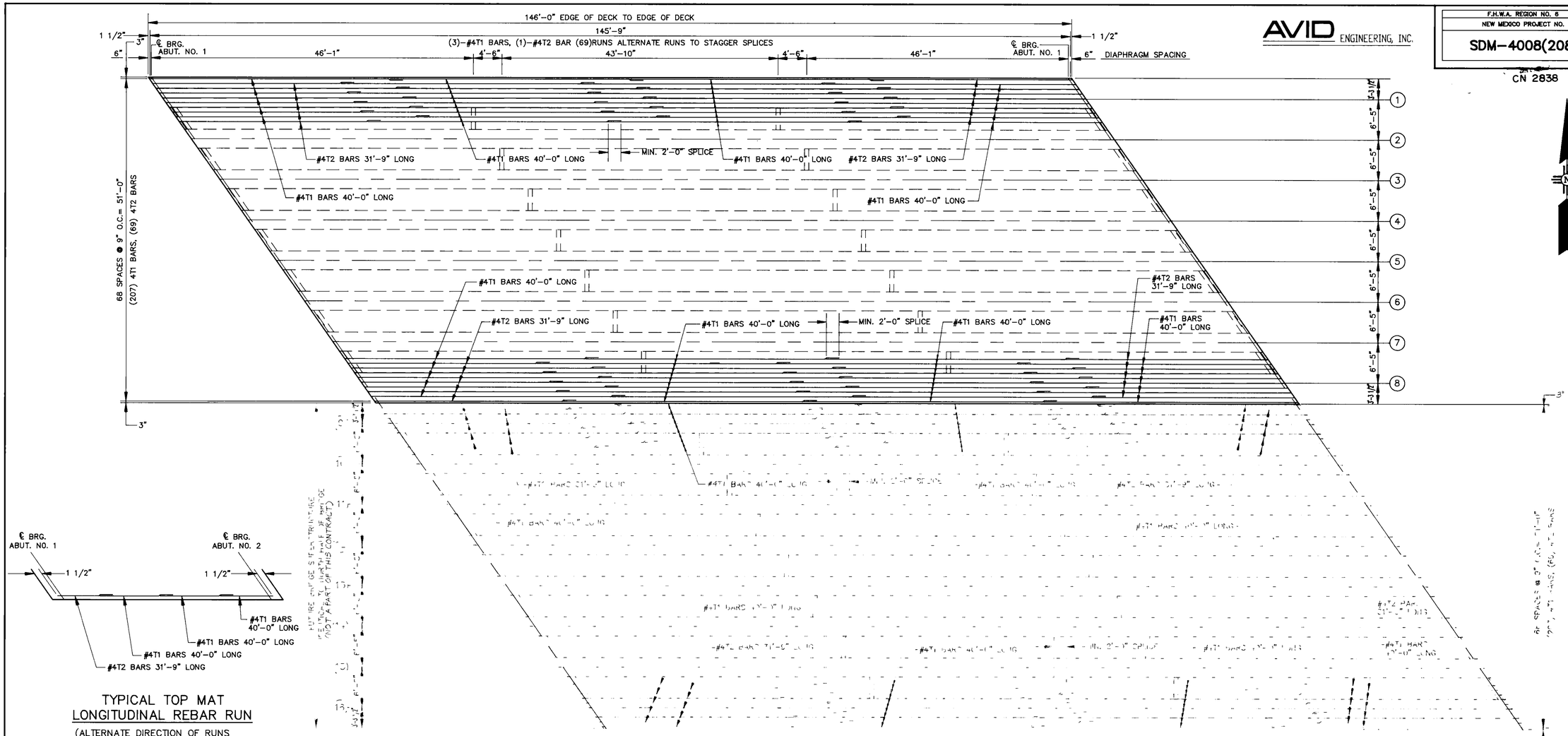
N.M. PROJECT NO. SDM-4008(208) SHEET 5-4

ROTATE 180°

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 5-5 |

CN 2838

AVID ENGINEERING, INC.





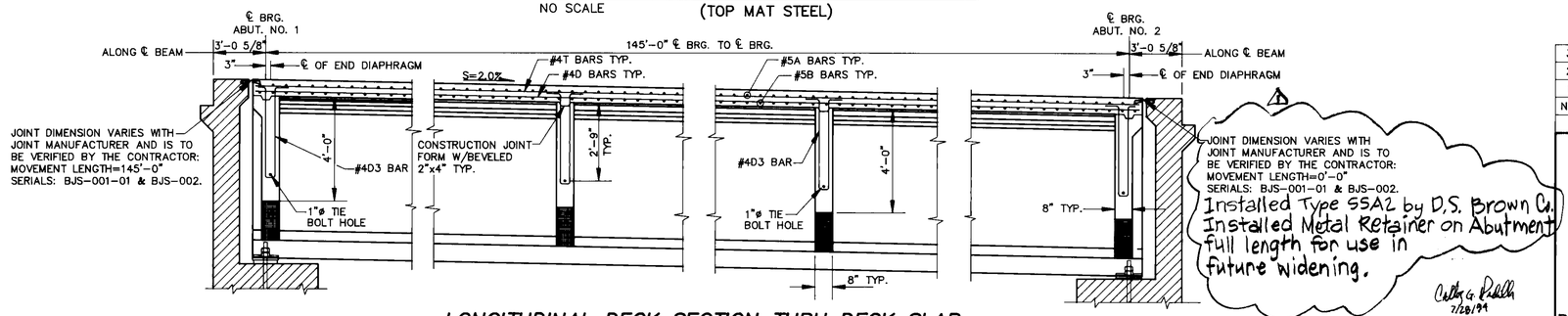


TYPICAL TOP MAT
LONGITUDINAL REBAR RUN

(ALTERNATE DIRECTION OF RUNS TO STAGGER SPLICES)

## LONGITUDINAL DECK REINFORCING PLAN

NO SCALE (TOP MAT STEEL)




## LONGITUDINAL DECK SECTION THRU DECK SLAB

SCALE: 3/8"=1'-0"

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | Retainer Note & Abutment | 6/99 | CGR |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

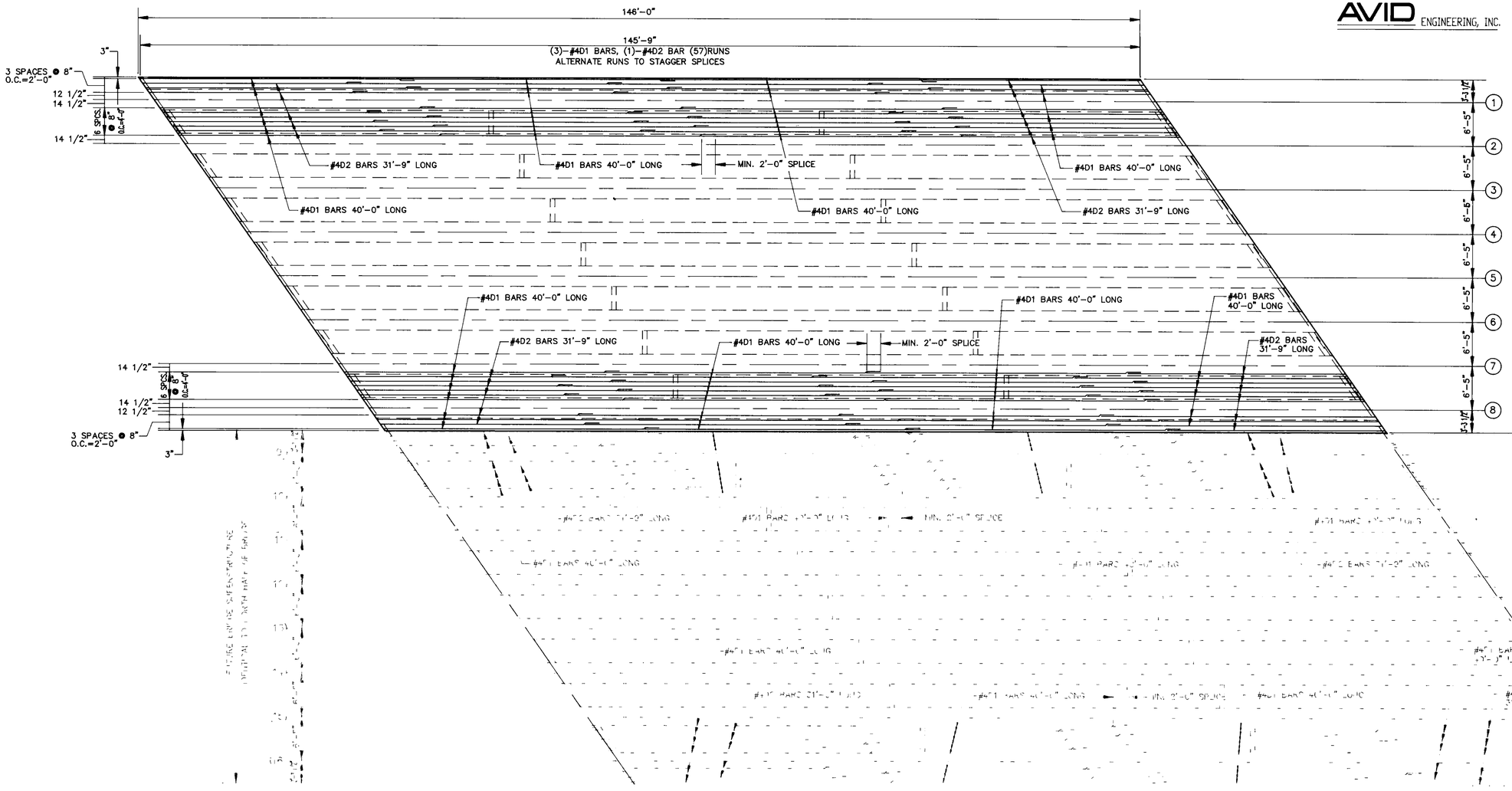
SUPERSTRUCTURE DETAILS
DECK REINF. PLAN LONGITUDINAL STEEL (TOP MAT)

N.M. PROJECT NO. SDM-4008(208) SHEET 5-5

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 5-6 |

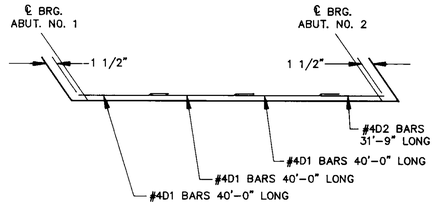
CN 2838

AVID ENGINEERING, INC.




## LONGITUDINAL DECK REINFORCING PLAN

NO SCALE (BOTTOM MAT STEEL)




TYPICAL BOTTOM MAT
LONGITUDINAL REBAR RUN
(ALTERNATE DIRECTION OF RUNS TO STAGGER SPLICES)

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

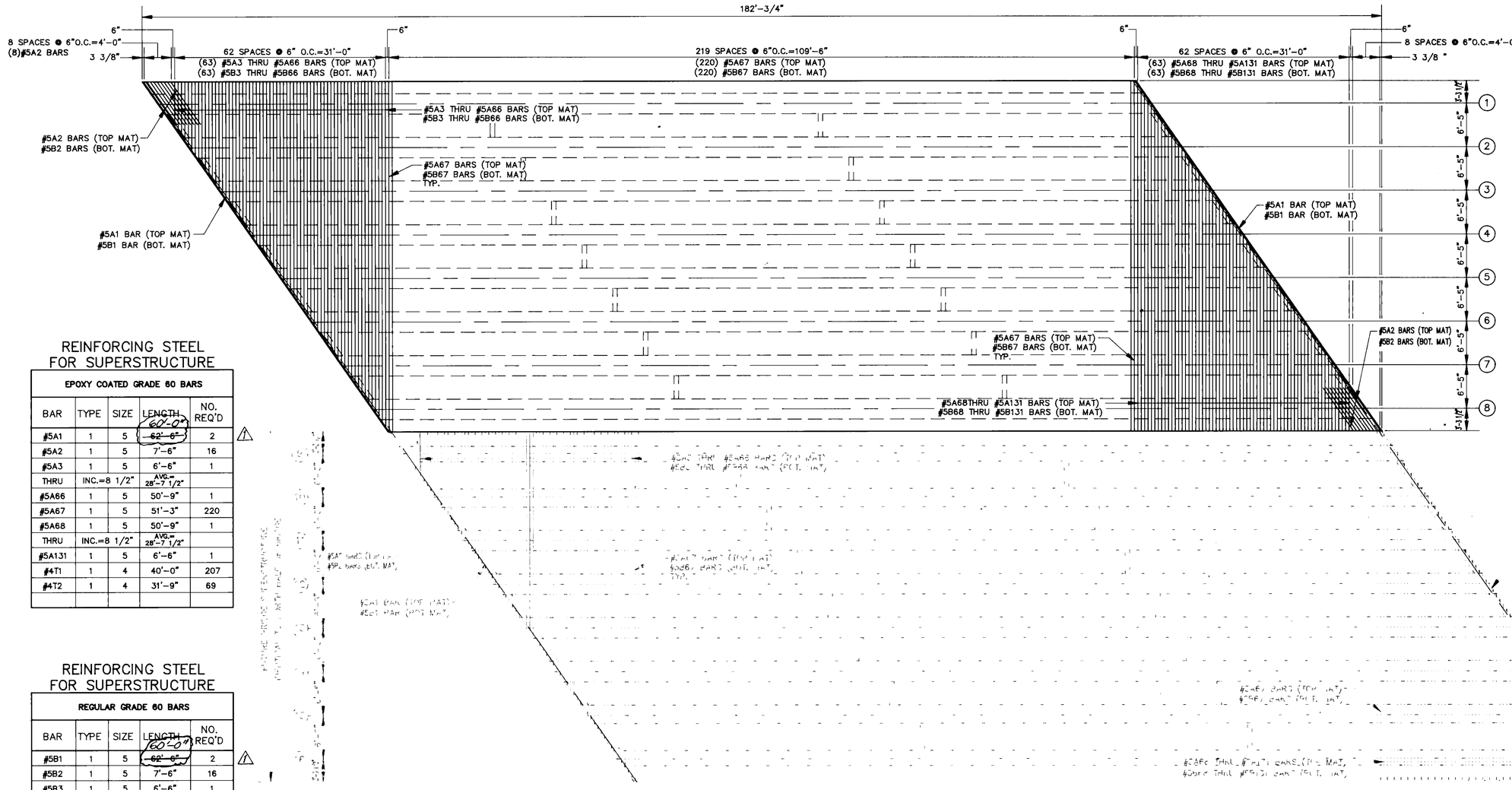
RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

SUPERSTRUCTURE DETAILS
DECK REINF. PLAN LONGITUDINAL STEEL
(BOTTOM MAT)

N.M. PROJECT NO. SDM-4008(208) SHEET 5-6

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 5-7 |

AVID ENGINEERING, INC. CN 2838




## REINFORCING STEEL FOR SUPERSTRUCTURE

**EPOXY COATED GRADE 60 BARS**

| BAR | TYPE | SIZE | LENGTH | NO. REQ'D |
|---|---|---|---|---|
| #5A1 | 1 | 5 | ~~62'-6"~~ 60'-0" | 2 |
| #5A2 | 1 | 5 | 7'-6" | 16 |
| #5A3 | 1 | 5 | 6'-6" | 1 |
| THRU | INC.=8 1/2" | | AVG.= 28'-7 1/2" | |
| #5A66 | 1 | 5 | 50'-9" | 1 |
| #5A67 | 1 | 5 | 51'-3" | 220 |
| #5A68 | 1 | 5 | 50'-9" | 1 |
| THRU | INC.=8 1/2" | | AVG.= 28'-7 1/2" | |
| #5A131 | 1 | 5 | 6'-6" | 1 |
| #4T1 | 1 | 4 | 40'-0" | 207 |
| #4T2 | 1 | 4 | 31'-9" | 69 |
| | | | | |

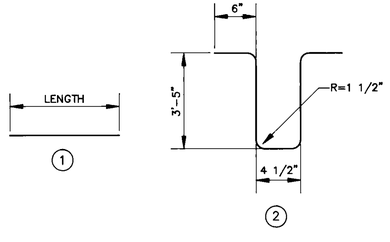
## REINFORCING STEEL FOR SUPERSTRUCTURE

**REGULAR GRADE 60 BARS**

| BAR | TYPE | SIZE | LENGTH | NO. REQ'D |
|---|---|---|---|---|
| #5B1 | 1 | 5 | ~~62'-6"~~ 60'-0" | 2 |
| #5B2 | 1 | 5 | 7'-6" | 16 |
| #5B3 | 1 | 5 | 6'-6" | 1 |
| THRU | INC.=8 1/2" | | AVG.= 28'-7 1/2" | |
| #5B66 | 1 | 5 | 50'-9" | 1 |
| #5B67 | 1 | 5 | 51'-3" | 220 |
| #5B68 | 1 | 5 | 50'-9" | 1 |
| THRU | INC.=8 1/2" | | AVG.= 28'-7 1/2" | |
| #5B131 | 1 | 5 | 6'-6" | 1 |
| #4D1 | 1 | 4 | 40'-0" | 171 |
| #4D2 | 1 | 4 | 31'-9" | 57 |
| #4D3 | 2 | 4 | 8'-2 1/2" | 154 |
| | | | | |

## *TRANSVERSE DECK REINFORCING PLAN*

NO SCALE (TOP & BOTTOM MAT)




**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | Rebar Length | 6/21/99 | CSP |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

SUPERSTRUCTURE DETAILS
DECK REINF. PLAN TRANSVERSE STEEL
(TOP & BOTTOM MAT)

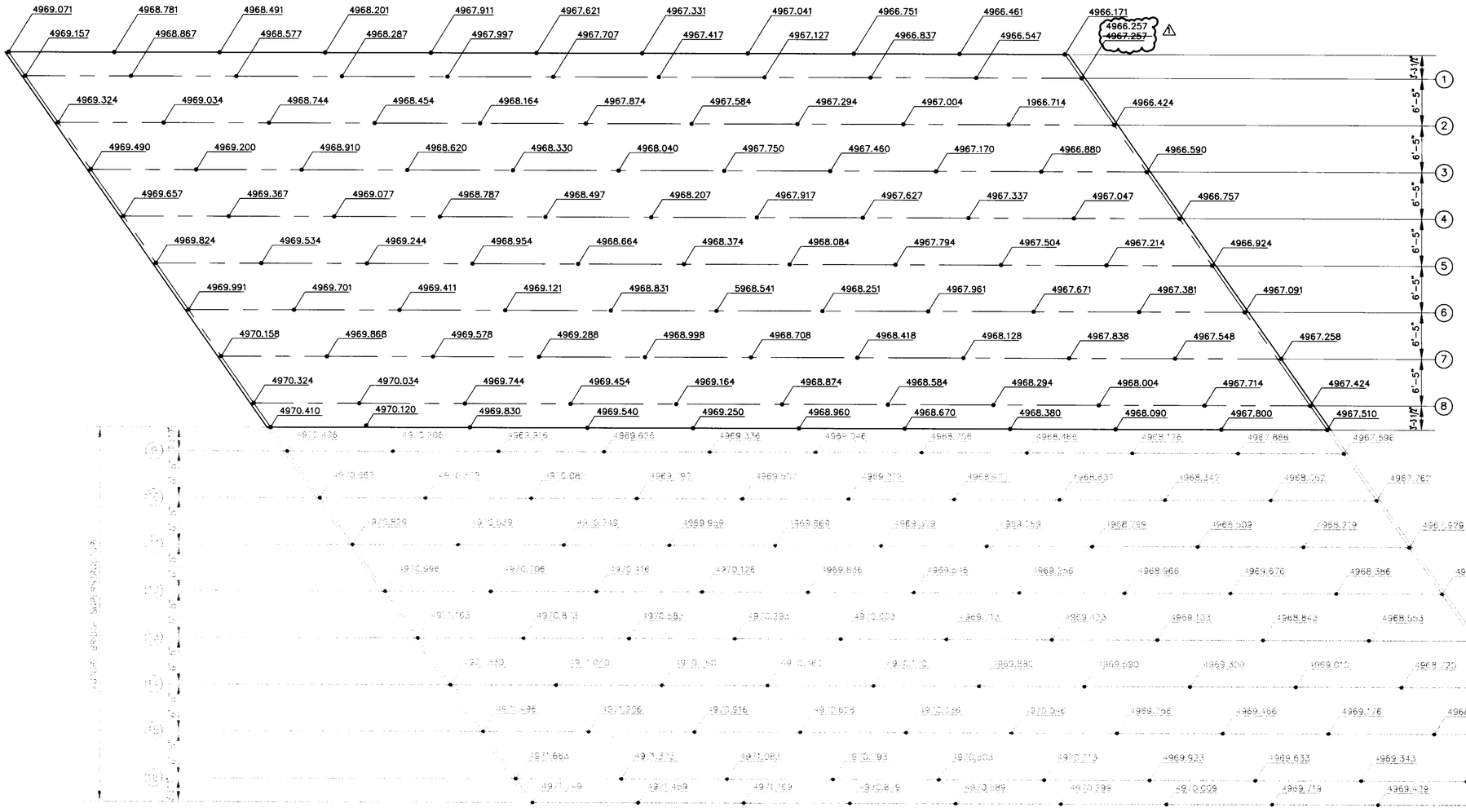
Cathy Rudisill 22894

N.M. PROJECT NO. SDM-4008(208) SHEET 5-7

AVID ENGINEERING, INC.

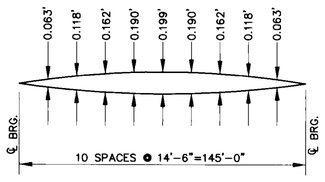
| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 5-8 |

CN 2837




## TOP OF DECK ELEVATIONS

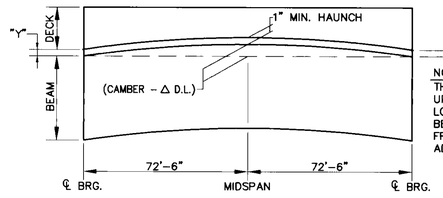
NO SCALE




## DEAD LOAD DEFLECTION DIAGRAM

NO SCALE

NOTE: TO COMPENSATE FOR DEAD LOAD DEFLECTION DUE TO WEIGHT OF SLAB AND SUPERIMPOSED DEAD LOADS, SET SCREEDS ABOVE TOP OF SLAB ELEVATIONS. ALL DIMENSIONS SHOWN IN DEAD LOAD DEFLECTIONS DIAGRAMS ARE IN FEET.

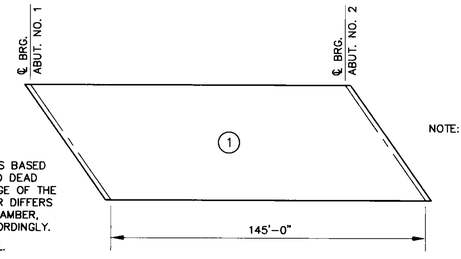



NOTE:
THE HAUNCH DIMENSION "Y" IS BASED UPON COMPUTED CAMBER AND DEAD LOAD DEFLECTION AT LOW EDGE OF THE BEAM. IF THE ACTUAL CAMBER DIFFERS FROM THE COMPUTED BEAM CAMBER, ADJUST THE DIMENSIONS ACCORDINGLY.

Y=1"-CAMBER + Δ D.L.

## TYPICAL HAUNCH DIAGRAM

Y=1"-CAMBER + Δ D.L.




## CONCRETE DECK PLACEMENT DETAIL

NOTE: CONCRETE SHALL BE PLACED THE HALF WIDTH OR FULL WIDTH OF THE DECK SLAB AT A FORWARD RATE OF PROGRESS OF NOT LESS THAN 30 FT. PER HOURS.

REVISIONS HIGHLIGHTED BY CLOUD

CARLOS G. PADILLA NEW MEXICO 12196 REGISTERED PROFESSIONAL ENGINEER

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | REVISED ELEVATION | 7/9/98 | CGP |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

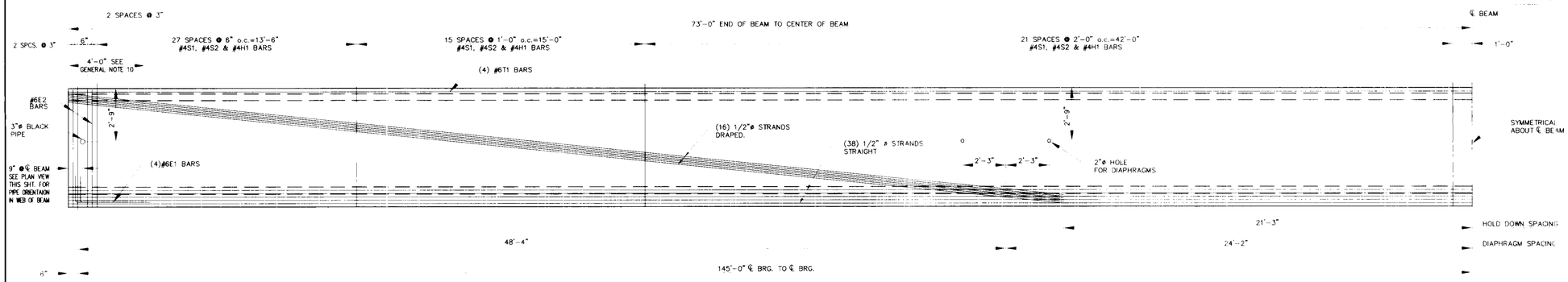
SUPERSTRUCTURE DETAILS
TOP OF DECK ELEVATIONS

5-8.DWG

N.M. PROJECT NO. SDM-4008(208) SHEET 5-8

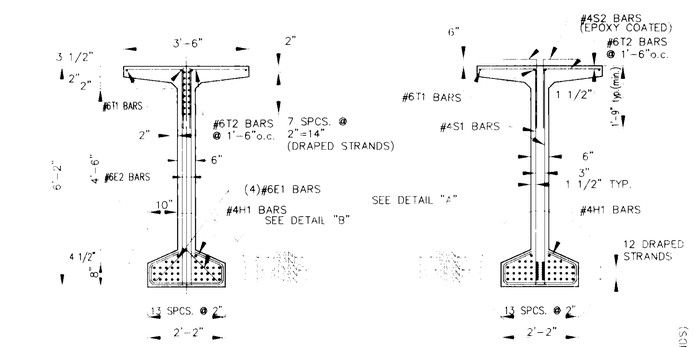
| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 5-9 |

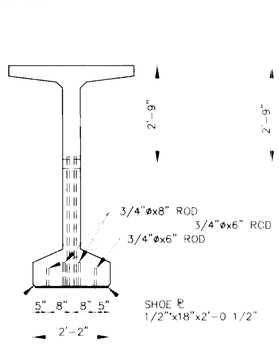
CN **2838**



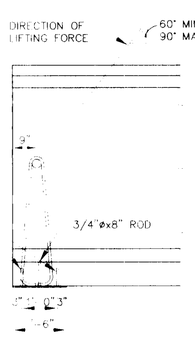

## HALF ELEVATION TYPE BT 74-145

NO SCALE (8 BEAMS REQ'D)

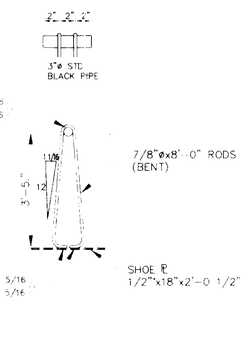


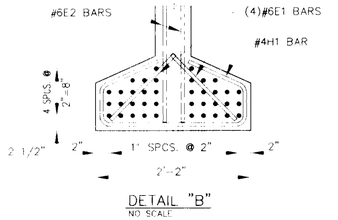




END VIEW

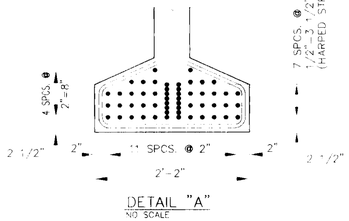



ELEVATION




DETAIL "B"
NO SCALE

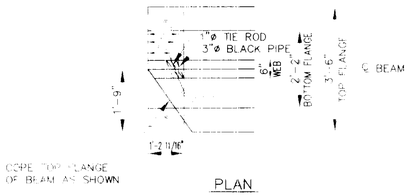



DETAIL "A"
NO SCALE

3/4" CHAMFER

END SECTION

SECTION NEAR ℄ BEAM




PLAN

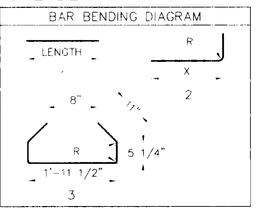
END OF BEAM DETAILS

*ESTIMATED QUANTITIES FOR ONE BEAM AND BEAM DATA*

| BEAM TYPE | CONCRETE | REINFORCING STEEL | | EMBEDDED STRUCT. STEEL | WEIGHT | CAMBER | DEAD LOAD DEFLECTION | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | 1/2" STRAND | REBAR | | | | | |
| BT 74-145 | 30.7 C.Y. | 4199.2 LB. | 4030 LB. | 206 LB. | 66.4 TONS | 2 15/16" | 2 3/8" | SPAN #1 |

*REINFORCING STEEL REQUIRED FOR ONE BEAM*

| BAR | TYPE | SIZE | "X" | "R" | B" 74-145 | | BAR BENDING DIAGRAM |
|---|---|---|---|---|---|---|---|
| | | | | | LENGTH | NUMBER | |
| #4S1 | 1 | 4 | | | 5'-10" | 256 | |
| #4S2 | 2 | 4 | 2'-3" | | 3'-3" | 256 | |
| #6T1 | 1 | 6 | | | 49'-8" | 2 | |
| #6T2 | 2 | 6 | 1'-9" | 1 3/4" | 3'-3" | 134 | |
| #4H1 | 3 | 4 | | 1 3/4" | 4'-8" | 134 | |
| #6E1 | 2 | 6 | 5'-0" | 2 5/8" | 6'-3" | 8 | |
| #6E2 | 1 | 6 | | | 5'-10" | 16 | |




## GENERAL NOTES

1.) COST OF REINFORCING BARS AND STRUCTURAL STEEL EMBEDDED IN BRIDGE BEAMS IS TO BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED CONCRETE BRIDGE MEMBER TYPE 74.
2.) BEAMS TO BE LIFTED BY MEANS OF DEVICES SATISFACTORY TO THE ENGINEER, WHICH SHALL BE INSERTED THRU 3" DIA. PIPE AT THE ENDS. BEAMS TO BE CAST, STORED AND HAULED IN AN UPRIGHT POSITION. ALTERNATE LIFTING DEVICES MUST BE APPROVED BY THE ENGINEER PRIOR TO USE.
3.) THE TOP SURFACE OF THE BEAMS IS TO BE THOROUGHLY WIRE BRUSHED AND SCORED TRANSVERSELY AFTER INITIAL SET (MIN. DEPTH=1/4" ENTIRE FLANGE WIDTH.)
4.) BEAM CAMBER IS THE COMPUTED NET UPWARD DEFLECTION AT THE CENTERLINE OF BEAM DUE TO PRESTRESSING, WITH WEIGHT OF BEAM ACTING.
5.) DEAD LOAD DEFLECTION IS THE COMPUTED DEFLECTION DUE TO WEIGHT OF SLAB, DIAPHRAGMS AND SUPERIMPOSED DEAD LOAD.
6.) THE DESIGN SHOWN IS BASED ON THE USE OF 1/2" DIA. LOW-RELAXATION STRANDS MEETING THE REQUIREMENTS OF AASHTO M-203 (GRADE 270). IF THE CONTRACTOR CHOOSES TO USE STRANDS MEETING THE REQUIREMENTS OF AASHTO M-203, WITH PROPERTIES OTHER THAN THESE; THEN THE REVISED DETAILS SHOWING NUMBER AND ARRANGEMENT OF ALTERNATE STRANDS SHALL BE SUBMITTED TO THE BRIDGE ENGINEER FOR APPROVAL.
7.) STIRRUPS MAY BE WELDED INTO A "CAGE" AT THE FABRICATORS OPTION.
8.) TYPE III CEMENT MAY BE USED AT THE FABRICATORS OPTION.
9.) SHOE PLATES MUST BE STRAIGHTENED PRIOR TO CASTING INTO BEAM.
10.) REINFORCING BARS PROJECTING FROM THE TOP OF THE GIRDER AND ALL REINFORCING LOCATED WITHIN FOUR FEET OF AN EXPANSION JOINT IN THE BRIDGE DECK SHALL BE EPOXY COATED. EXPANSION END SHALL BE CLEARLY MARKED WITH AN "E".

## DESIGN DATA

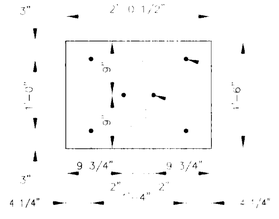
DESIGN ACCORDING TO AASHTO SPECIFICATIONS DATED 1989 AND INTERIMS TO DATE.

BEAMS:
f'ci (MIN. COMPRESSIVE STRENGTH OF CONCRETE AT TIME OF INITIAL PRESTRESSED)=6,300 LBS. PER SQ. IN.
f'c=7000 LBS. PER SQ. IN. n=6.0

PRESTRESSING STEEL:
1/2" DIA. SEVEN-WIRE LOW RELAXATION STRANDS.
INITIAL PRESTRESS=30,975 LBS. PER STRAND
f'ps=41,300 LBS. PER STRAND
f'y=35,100 LBS. PER STRAND
Fse=23,127 LBS. PER STRAND
PRESTRESS' LOSS=7,848 LBS. PER STRAND

CONVENTIONAL REINFORCING BARS:
fs=20,000 LBS. PER SQ. IN.
fy=40,000 LBS. PER SQ. IN. (GRADE 40)

COMPOSITE SLAB:
f'c=3,000 LBS. PER SQ. IN., N=9
ALLOWANCE FOR FUTURE WEARING SURFACE=30 LBS. PER SQ. FT.
LIVE LOAD=HS 20-44
fs=24,000 LBS. PER SQ. IN.
fy=60,000 LBS. PER SQ. IN. (GRADE 60)




SHOE ℙ DETAIL

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

Ashley & Radcliffe 7/28/99

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

BRIDGE OVER THE AMOLE CHANNEL
SUPERSTRUCTURE DETAILS
PRESTRESSED BEAM

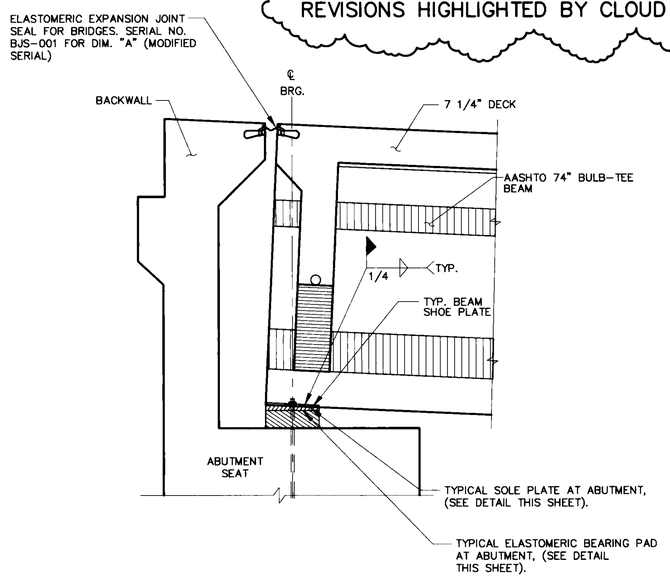
5-9.DWG

N.M. PROJECT NO. SDM-4008(208) SHEET 5-9

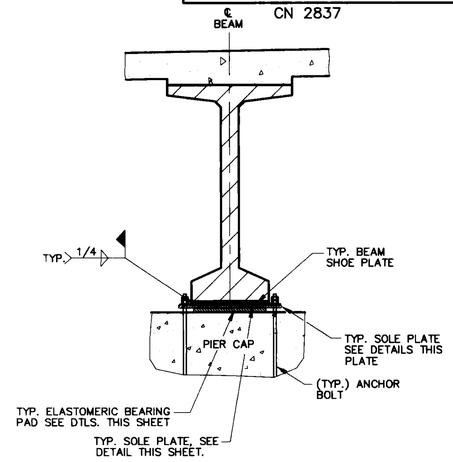
# SEAT ELEVATIONS

| BEAM LINE | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOCATION | DESCRIPTION | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | |
| ABUT. NO. 1 SPAN NO. 1 | SLAB ELEV. | 4969.157 | | 4969.324 | | 4969.490 | | 4969.657 | | 4969.824 | | 4969.991 | | 4970.158 | | 4970.324 | |
| | SLAB TH. | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 |
| | DELTA E | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 |
| | HAUNCH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | BEAM | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 |
| | SUPERSTRUCT. | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 |
| | SOLE PL. | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 |
| | BEARING | 1 11/16" | 1.6875 | 1 11/16" | 1.6875 | 1 11/16" | 1.6875 | 1 11/16" | 1.6875 | 1 11/16" | 1.6875 | 1 11/16" | 1.6875 | 1 11/16" | 1.6875 | 1 11/16" | 1.6875 |
| | SEAT ELEV. | 4962.022 | | 4962.189 | | 4962.355 | | 4962.522 | | 4962.689 | | 4962.856 | | 4963.023 | | 4963.189 | |
| LOCATION | DESCRIPTION | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | |
| ABUT. NO. 1 SPAN NO. 1 | SLAB ELEV. | 4970.496 | | 4970.662 | | 4970.829 | | 4970.996 | | 4971.163 | | 4971.330 | | 4971.496 | | 4971.663 | |
| | SLAB TH. | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 |
| | DELTA E | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 |
| | HAUNCH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | BEAM | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 |
| | SUPERSTRUCT. | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 |
| | SOLE PL. | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 |
| | BEARING | 1 11/16" | 1.6875 | 1 11/16" | 1.6875 | 1 11/16" | 1.6875 | 1 11/16" | 1.6875 | 1 11/16" | 1.6875 | 1 11/16" | 1.6875 | 1 11/16" | 1.6875 | 1 11/16" | 1.6875 |
| | SEAT ELEV. | 4963.361 | | 4963.527 | | 4963.694 | | 4963.861 | | 4964.028 | | 4964.195 | | 4964.361 | | 4964.528 | |
| BEAM LINE | | | | | | | | | | | | | | | | | |
| LOCATION | DESCRIPTION | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | |
| ABUT. NO. 2 SPAN NO. 1 | SLAB ELEV. | 4966.257 | | 4966.424 | | 4966.590 | | 4966.757 | | 4966.924 | | 4967.091 | | 4967.258 | | 4967.424 | |
| | SLAB TH. | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 |
| | DELTA E | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 |
| | HAUNCH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | BEAM | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 |
| | SUPERSTRUCT. | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 |
| | SOLE PL. | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 |
| | BEARING | 1/2" | 0.5 | 1/2" | 0.5 | 1/2" | 0.5 | 1/2" | 0.5 | 1/2" | 0.5 | 1/2" | 0.5 | 1/2" | 0.5 | 1/2" | 0.5 |
| | SEAT ELEV. | 4959.221 | | ~~4959.338~~ 4959.388 10 ⚠ | | 4959.554 | | 4959.721 | | 4959.888 | | 4960.055 | | 4960.222 | | 4960.388 | |
| LOCATION | DESCRIPTION | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | |
| ABUT. NO. 2 SPAN NO. 1 | SLAB ELEV. | 4967.596 | | 4967.762 | | 4967.929 | | 4968.096 | | 4968.263 | | 4968.430 | | 4968.596 | | 4968.763 | |
| | SLAB TH. | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 | 7 1/4" | 7.25 |
| | DELTA E | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 | 13/16" | 0.8125 |
| | HAUNCH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | BEAM | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 |
| | SUPERSTRUCT. | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 | 83 1/16" | 83.0625 |
| | SOLE PL. | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 | 7/8" | 0.875 |
| | BEARING | 1/2" | 0.5 | | 0.5 | 1/2" | 0.5 | 1/2" | 0.5 | 1/2" | 0.5 | 1/2" | 0.5 | 1/2" | 0.5 | 1/2" | 0.5 |
| | SEAT ELEV. | 4960.560 | | 4960.726 | | 4960.893 | | 4961.060 | | 4961.227 | | 4961.394 | | 4961.560 | | 4961.727 | |

REVISIONS HIGHLIGHTED BY CLOUD




ELEVATION AT ABUTMENT



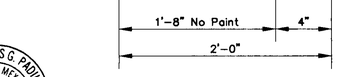

SECTION AT ABUTMENTS

## SOLE PLATE FINISH REQUIREMENTS

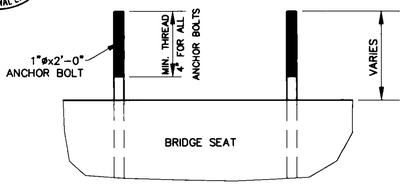
(1) Top and bottom surfaces of sole plates shall be flat within 0.030 inches total indicator reading. Surface finishes shall be ANSI 1000 or better. The plate thickness is the finished thickness.

(2) If machining processes are used to acheive the required flatness tolerances of the sole plates, the direction of machining on the surface to be in contact with the elastomeric pad shall be perpendicular to the longitudenal axis of the beams.

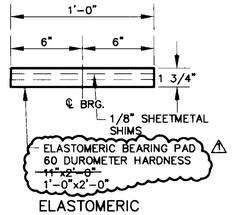
(3) Sole plates shall be delivered to the job site with one coat of primer applied to all sufaces except for masked-off strips where the sole plates will be welded to the shoe plates of the prestressed beams and the surfaces to be in contact with elastomeric bearing pad. Before installation, surfaces to be in contact with the pads shall be cleaned to SSPC-SP 6 requirements and sand blasted to provide a slip resistant surface. After installing the pad and welding the sole plate to the shoe plates, the Contractor shall touch up the primer and apply the top coat to all exposed surfaces.



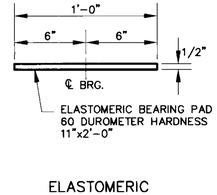

ANCHOR BOLT DETAIL



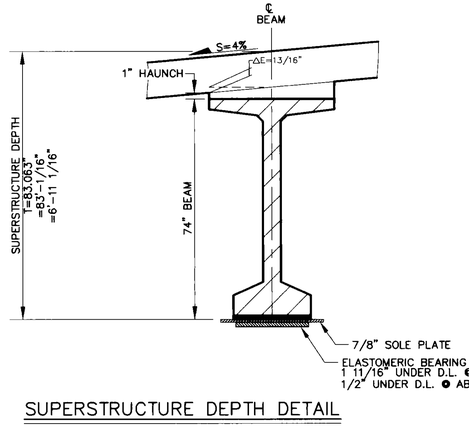

ANCHOR BOLT PROJECTION




ELASTOMERIC BEARING PAD DETAIL
AT ABUT. #1




ELASTOMERIC BEARING PAD DETAIL
AT ABUT. #2

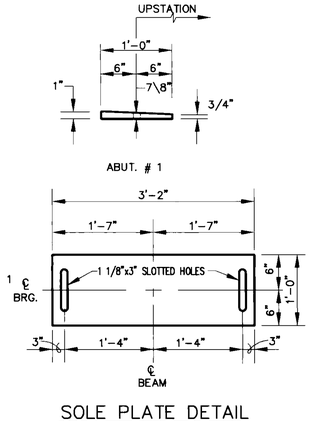



SUPERSTRUCTURE DEPTH DETAIL

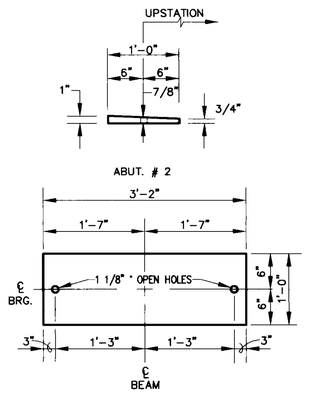
⚠ BEARING INFORMATION TABLE

| LOCATION | NO. LAMS | LAM. THICKNESS | NO. SHIMS | TOTAL THICKNESS | DEFLEC. DUE TO DL | COMP. THICK UNDER DL | DES DL (K) | DES LL (K) |
|---|---|---|---|---|---|---|---|---|
| ABUTMENT #1 | 3 | 1/2" | 2 | ~~2 3/4"~~ 1 3/4" | 1/16" | 1 11/16" | 130 | 42 |
| ABUTMENT #2 | 1 | 1/2" | 0 | 1/2" | 0 | 1/2" | 130 | 42 |
| | | | | | | | | |

NOTE: METAL SHIMS SHALL BE ASTM A-366 OR A-569 SHEET METAL.




SOLE PLATE DETAIL
(ABUT. No. 1)




SOLE PLATE DETAIL
(ABUT. No. 2)

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| ⚠ | REVISED DIMENSIONS & ELEVATIONS | 7/9/98 | CGP |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

BRIDGE OVER THE AMOLE CHANNEL
SUPERSTRUCTURE DETAILS
BEARING DETAILS

AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 5-10 |

CARLOS G. PADILLA NEW MEXICO 11040 REGISTERED PROFESSIONAL ENGINEER

5-10.DWG

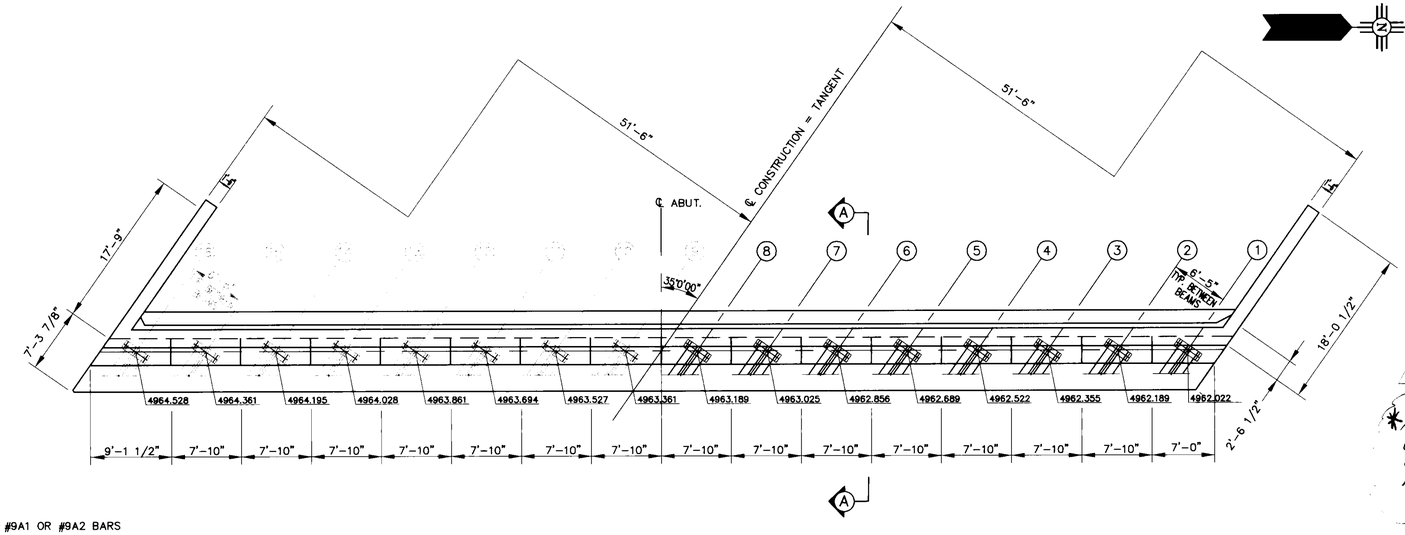
N.M. PROJECT NO. SDM-4008(208) SHEET 5-10

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 5-11 |

CN 2837

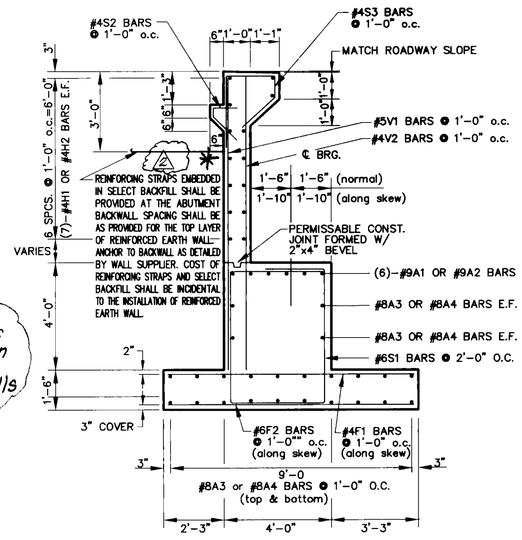
Connell Fleming West Inc

AVID ENGINEERING, INC.




PLAN AT ABUTMENT NO. 1

*Med Ca FX 5' inserts used for connection of soil mats to Abutment Backwalls




SECTION A-A

NOTE: ALL DIMENSIONS SHOWN ARE NORMAL TO THE ABUTMENT UNLESS OTHERWISE NOTED.

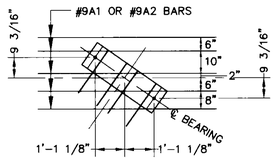
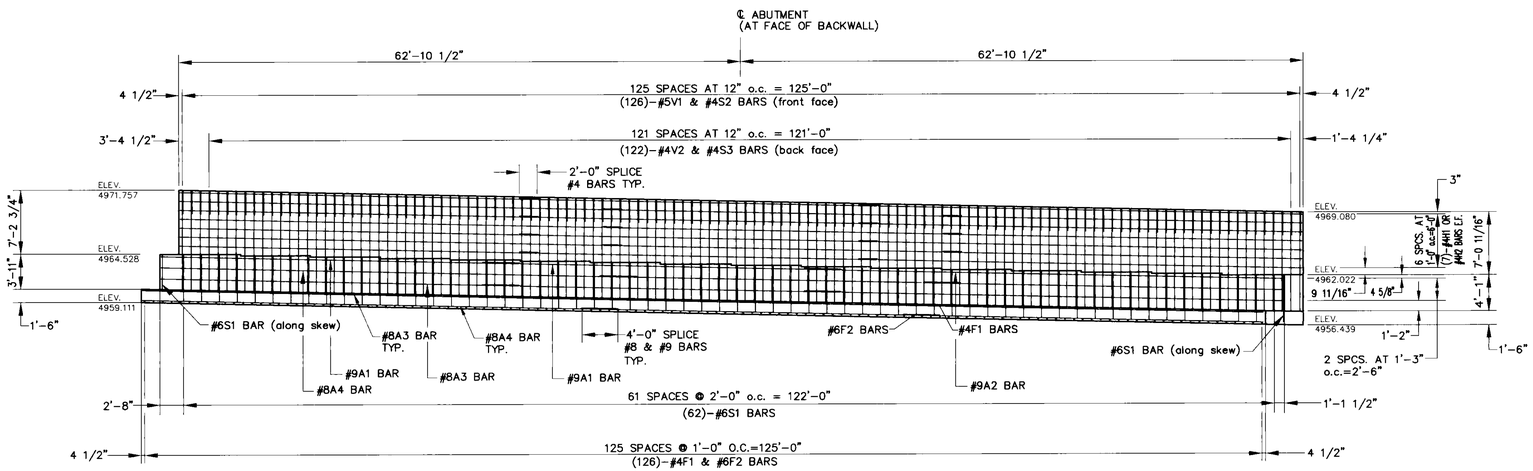
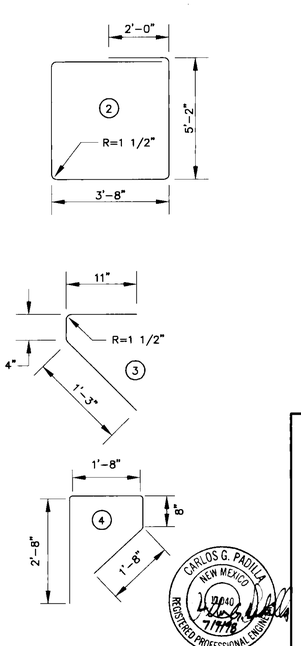



PLATE PLACEMENT DETAIL




ELEVATION AT ABUTMENT NO. 1

REVISIONS HIGHLIGHTED BY CLOUD




REINFORCING STEEL FOR ABUTMENT NO. 1

| REGULAR GRADE 60 BARS | | | | |
|---|---|---|---|---|
| BAR | TYPE | SIZE | LENGTH | NO. REQ'D |
| #9A1 | 1 | 9 | 40'-0" | 12 |
| #9A2 | 1 | 9 | 53'-6" | 6 |
| #8A3 | 1 | 8 | 40'-0" | 48 |
| #8A4 | 1 | 8 | 53'-6" | 24 |
| #4F1 | 1 | 4 | 11'-3" | 126 |
| #6F2 | 1 | 6 | 11'-3" | 126 |
| #4H1 | 1 | 4 | 40'-0" | 28 |
| #4H2 | 1 | 4 | 49'-6" | 14 |
| * #5V1 | 1 | 5 | 11'-0" | 122 |
| * #4V2 | 1 | 4 | 11'-0" | 126 |
| #6S1 | 2 | 6 | 19'-8" | 64 |
| #4S2 | 3 | 4 | 2'-6" | 122 |
| #4S3 | 4 | 4 | 6'-8" | 126 |

* GRADE 40 REINFORCEMENT

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

SUBSTRUCTURE DETAILS
ABUTMENT NO. 1 DETAILS

CARLOS G. PADILLA NEW MEXICO 12040 REGISTERED PROFESSIONAL ENGINEER

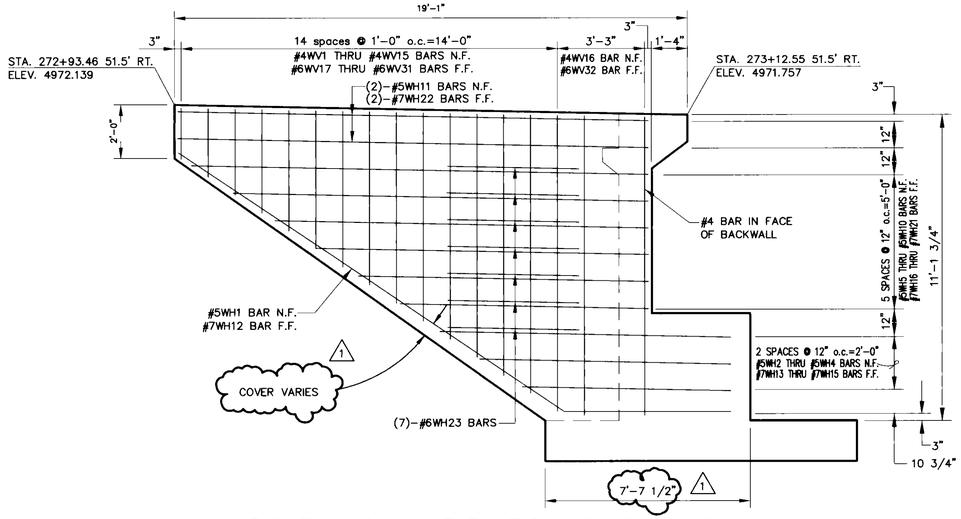
5-11.DWG

N.M. PROJECT NO. SDM-4008(208) SHEET 5-11

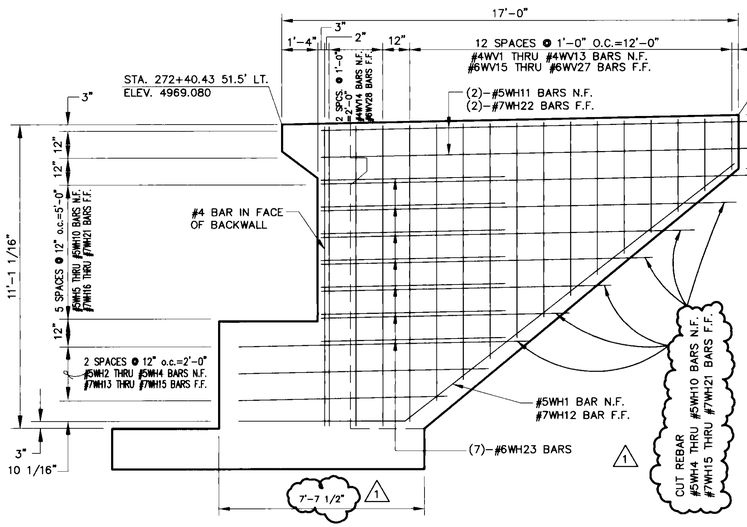
| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 5-12 |

CN 2837

AVID ENGINEERING, INC.




RIGHT WINGWALL ELEVATION AT ABUT. NO. 1



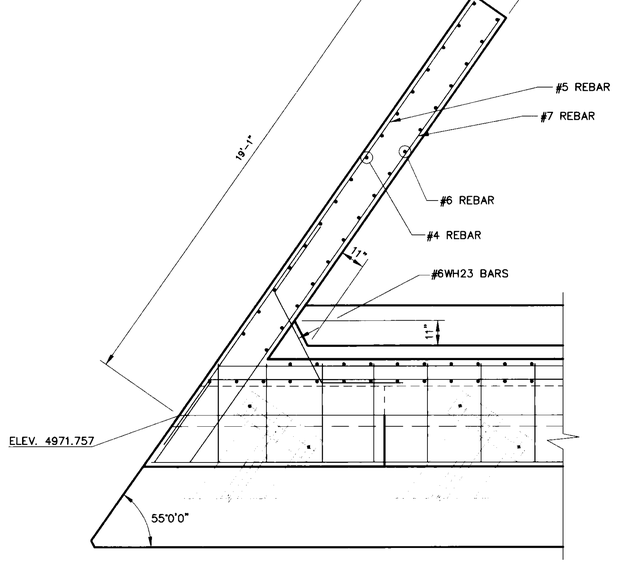

LEFT WINGWALL ELEVATION AT ABUT. NO. 1

## REINFORCING STEEL FOR RIGHT WINGWALL

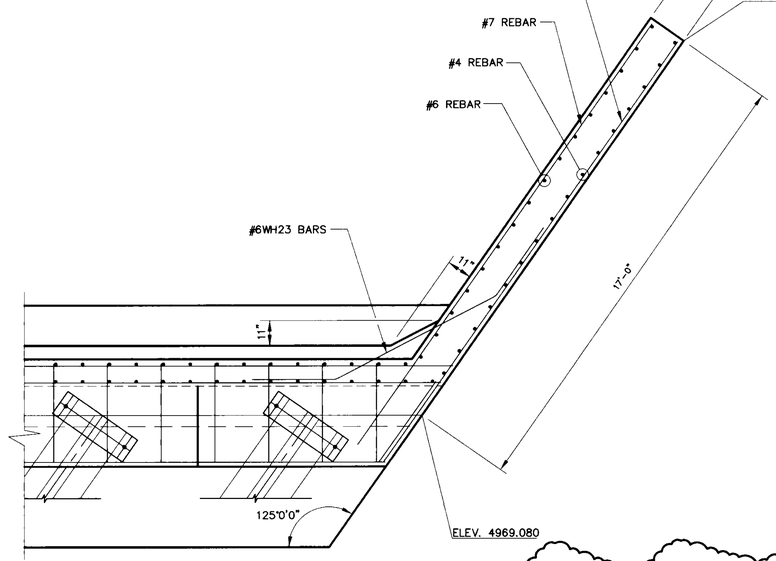
| BAR | TYPE | SIZE | LENGTH | NO. REQ'D |
|---|---|---|---|---|
| #5WH1 | 2 | 5 | 23'-6" | 1 |
| #5WH2 | 1 | 5 | 7'-9" | 1 |
| THRU | | INC. | 1'-6 1/2" | 3 TOTAL |
| #5WH4 | 1 | 5 | 10'-10" | 1 |
| #5WH5 | 1 | 5 | 9'-3" | 1 |
| THRU | | INC. | 1'-6 1/2" | 6 TOTAL |
| #5WH10 | 1 | 5 | 17'-0" | 1 |
| #5WH11 | 1 | 5 | 17'-6" | 2 |
| #7WH12 | 2 | 7 | 23'-6" | 1 |
| #7WH13 | 1 | 7 | 7'-9" | 1 |
| THRU | | INC. | 1'-6 1/2" | 3 TOTAL |
| #7WH15 | 1 | 7 | 10'-10" | 1 |
| #7WH16 | 1 | 7 | 9'-3" | 1 |
| THRU | | INC. | 1'-6 1/2" | 6 TOTAL |
| #7WH21 | 1 | 7 | 17'-0" | 1 |
| #7WH22 | 1 | 7 | 17'-6" | 2 |
| #6WH23 | 4 | 6 | 9'-9" | 7 |
| #4WV1 | 1 | 4 | 2'-0" | 1 |
| THRU | | INC. | 7 3/4" | 15 TOTAL |
| #4WV15 | 1 | 4 | 11'-0" | 1 |
| #4WV16 | 1 | 4 | 11'-2" | 1 |
| #6WV17 | 1 | 6 | 2'-0" | 1 |
| THRU | | INC. | 7 3/4" | 15 TOTAL |
| #6WV31 | 1 | 6 | 11'-0" | 1 |
| #6WV32 | 1 | 6 | 11'-2" | 1 |

## REINFORCING STEEL FOR LEFT WINGWALL

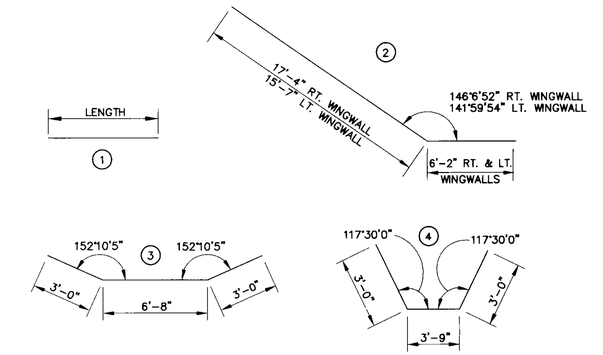
| BAR | TYPE | SIZE | LENGTH | NO. REQ'D |
|---|---|---|---|---|
| #5WH1 | 2 | 5 | 21'-9" | 1 |
| #5WH2 | 1 | 5 | 7'-9" | 1 |
| THRU | | INC. | 1'-6 1/2" | 3 TOTAL |
| #5WH4 | 1 | 5 | 10'-10" | 1 |
| #5WH5 | 1 | 5 | 9'-3" | 1 |
| THRU | | INC. | 1'-6 1/2" | 6 TOTAL |
| #5WH10 | 1 | 5 | 17'-0' | 1 |
| #5WH11 | 1 | 5 | 17'-6" | 2 |
| #7WH12 | 2 | 7 | 21'-9" | 1 |
| #7WH13 | 1 | 7 | 7'-9" | 1 |
| THRU | | INC. | 1'-6 1/2" | 3 TOTAL |
| #7WH15 | 1 | 7 | 10'-10" | 1 |
| #7WH16 | 1 | 7 | 9'-3" | 1 |
| THRU | | INC. | 1'-6 1/2" | 6 TOTAL |
| #7WH21 | 1 | 7 | 17'-0' | 1 |
| #7WH22 | 1 | 7 | 17'-6" | 2 |
| #6WH23 | 3 | 6 | 12'-8" | 7 |
| #4WV1 | 1 | 4 | 2'-0" | 1 |
| THRU | | INC. | 9" | 13 TOTAL |
| #4WV13 | 1 | 4 | 11'-0" | 1 |
| #4WV14 | 1 | 4 | 11'-2" | 3 |
| #6WV15 | 1 | 6 | 2'-0" | 1 |
| THRU | | INC. | 9" | 13 TOTAL |
| #6WV27 | 1 | 6 | 11'-0' | 1 |
| #6WV28 | 1 | 6 | 11'-2" | 3 |




PLAN AT RIGHT WINGWALL AT ABUT. NO. 1




PLAN AT LEFT WINGWALL AT ABUT. NO. 1




BAR BENDING DIAGRAM

CARLOS G. PADILLA NEW MEXICO 11040 REGISTERED PROFESSIONAL ENGINEER

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | REBAR CUTS & DIMENSIONS | 4/13/98 | CGP |

REVISIONS (OR CHANGE NOTICES)

REVISIONS HIGHLIGHTED BY CLOUD

# NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

SUBSTRUCTURE DETAILS
ABUT. NO. 1 WINGWALLS

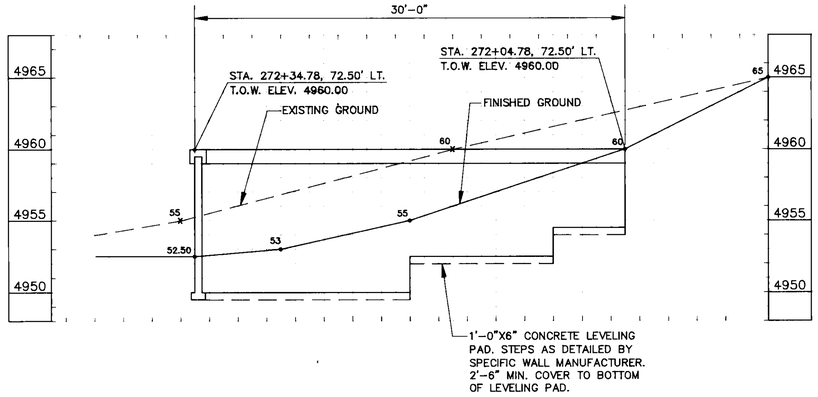
5-12.DWG

N.M. PROJECT NO. SDM-4008(208) SHEET 5-12

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 5-13 |

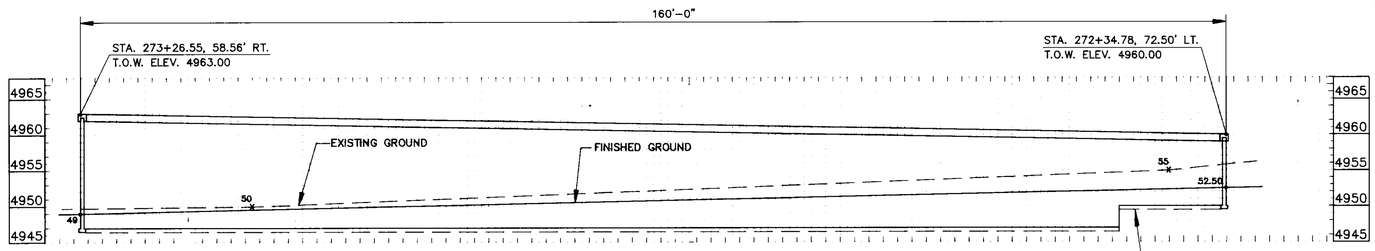
AVID ENGINEERING, INC.

CN 2838



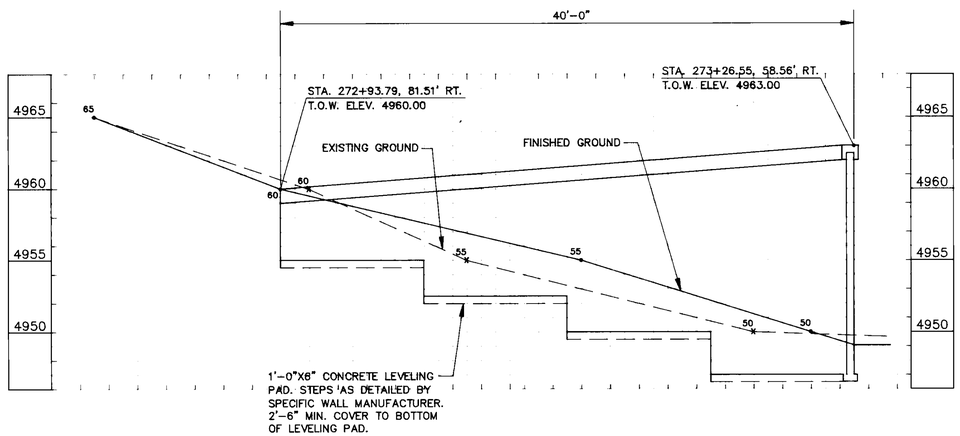

## NORTH WALL ELEVATION

SCALE: 1"=5'



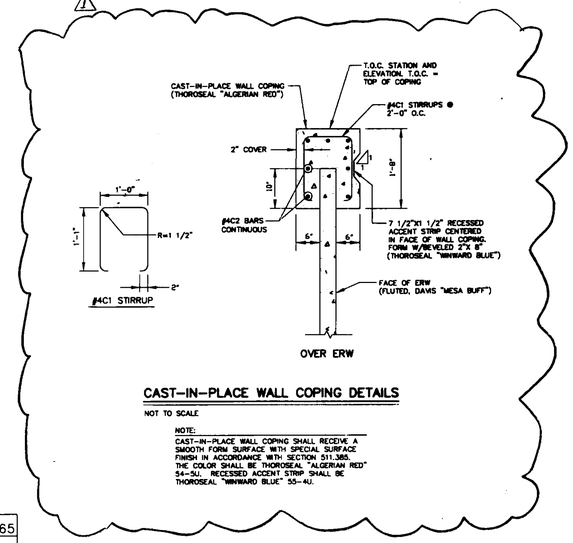

## FRONT WALL ELEVATION

SCALE: 1"=10'




## SOUTH WALL ELEVATION

SCALE: 1"=5'




## CAST-IN-PLACE WALL COPING DETAILS

NOT TO SCALE

NOTE:
CAST-IN-PLACE WALL COPING SHALL RECEIVE A SMOOTH FORM SURFACE WITH SPECIAL SURFACE FINISH IN ACCORDANCE WITH SECTION 511.385. THE COLOR SHALL BE THOROSEAL "ALGERIAN RED" 54-30. RECESSED ACCENT STRIP SHALL BE THOROSEAL "WINWARD BLUE" 55-40.

NOTES:

1.) THE DESIGN HORIZONTAL PRESSURES ON THE PANEL FACES SHALL BE DETERMINED USING MYERHOF'S ASSUMPTIONS ACCOUNTING FOR THE SOIL REINFORCEMENT MASS ECCENTRICITY.

2.) THE SACRIFICIAL STEEL COMPUTATION MAY BE MADE USING A CARBON STEEL LOSS RATE OF 12 MICRONS PER YEAR AFTER ZINC DEPLETION.

3.) REINFORCING STRAPS EMBEDDED IN SELECT BACKFILL SHALL BE PROVIDED AT THE ABUTMENT BACKWALL. SPACING SHALL BE AS PROVIDED FOR THE TOP LAYER OF REINFORCED EARTH WALL. ANCHOR TO BACKWALL AS DETAILED BY WALL SUPPLIER. COST OF REINFORCING STRAPS AND SELECT BACKFILL SHALL BE INCIDENTAL TO THE INSTALLATION OF REINFORCED EARTH WALL.

4.) PAYMENT FOR THE CONSTRUCTION OF REINFORCED EARTH WALLS AT ABUT. NO. 2 SHALL BE BASED ON THE ESTIMATED QUANTITY AT ABUT. NO. 2 SHOWN ON SHEET 5-1. THE ESTIMATED QUANTITIY IS BASED ON THE DRAWINGS SHOWN ON THIS SHEET. THE FINAL SQUARE FOOTAGE OF WALL INSTALLED MAY DIFFER FROM THE ESTIMATED QUANTITY AS A RESULT OF THE SUPPLIERS DETAILING FOR THE WALL CONFIGURATION. NO ADJUSTMENTS IN MEASUREMENT OR PAYMENT WILL BE MADE.

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | Added Wall Coping Detail | 6/99 | CGP |

REVISIONS (OR CHANGE NOTICES)

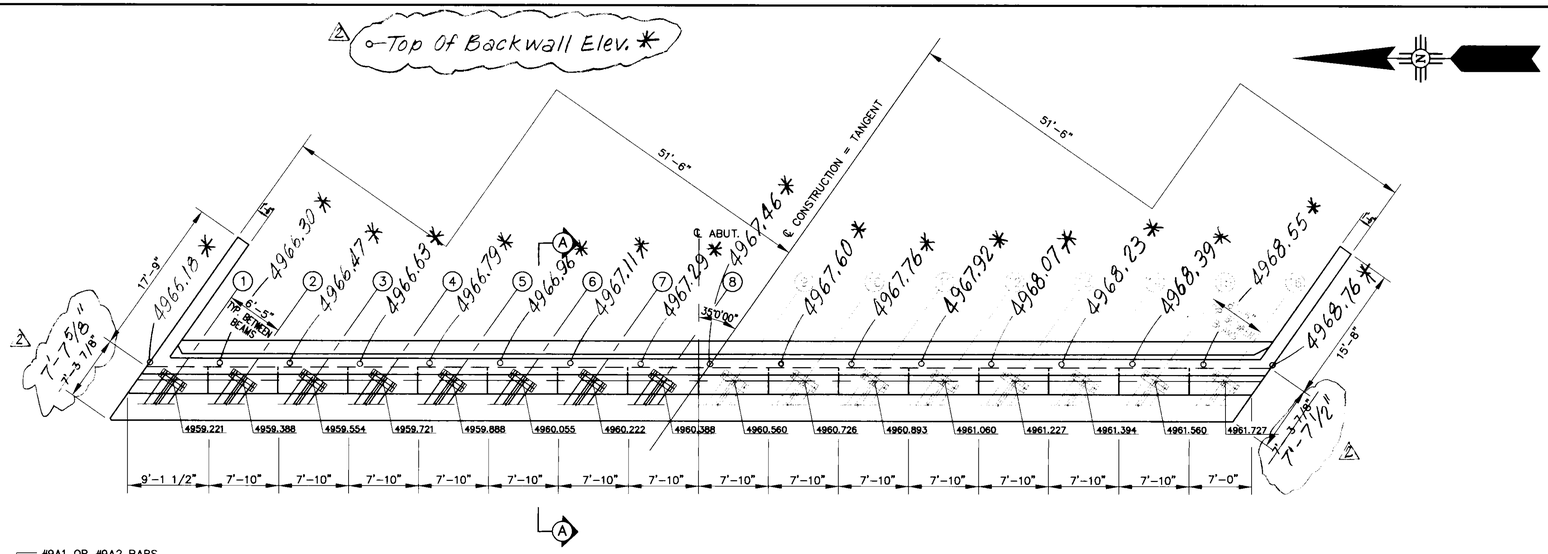
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

SUBSTRUCTURE DETAILS
REINFORCED EARTH WALLS
AT ABUT. NO. 1

Cathy Padilla 10/8/24

N.M. PROJECT NO. SDM-4008(208) SHEET 5-13




PLAN AT ABUTMENT NO. 2

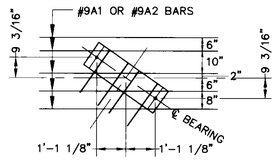
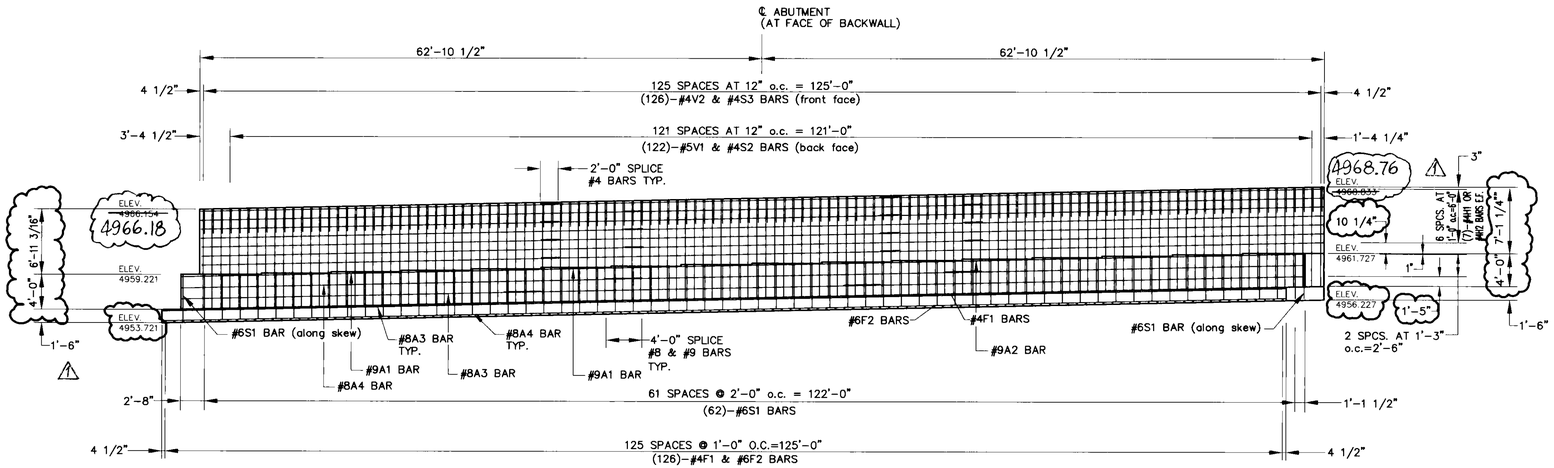



PLATE PLACEMENT DETAIL




ELEVATION AT ABUTMENT NO. 2

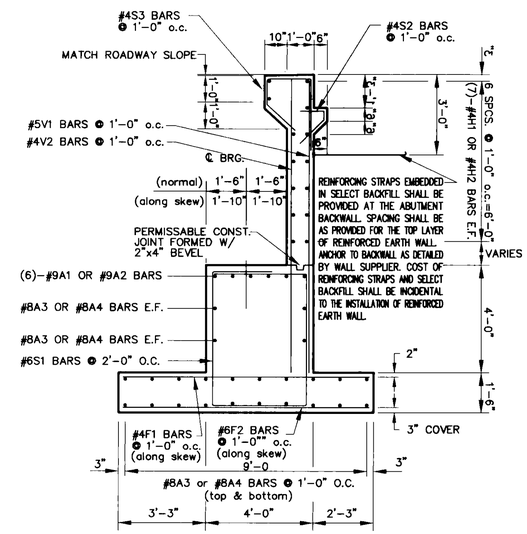
1 REVISIONS HIGHLIGHTED BY CLOUD

Connett Fleming West Inc

AVID ENGINEERING, INC.

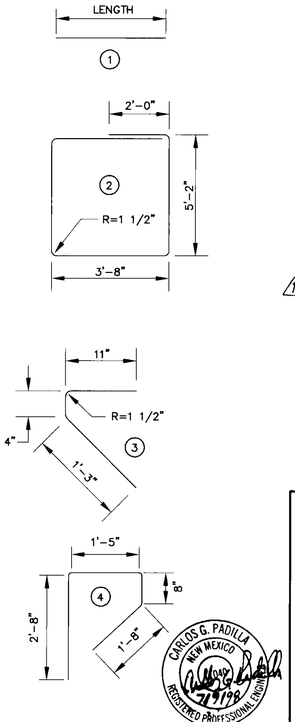
| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 5-14 |

CN 2837




## SECTION A-A

NOTE: ALL DIMENSIONS SHOWN ARE NORMAL TO THE ABUTMENT UNLESS OTHERWISE NOTED.




REINFORCING STEEL
FOR ABUTMENT NO. 1

| REGULAR GRADE 60 BARS | | | | |
|---|---|---|---|---|
| BAR | TYPE | SIZE | LENGTH | NO. REQ'D |
| #9A1 | 1 | 9 | 40'-0" | 12 |
| #9A2 | 1 | 9 | 53'-6" | 6 |
| #8A3 | 1 | 8 | 40'-0" | 48 |
| #8A4 | 1 | 8 | 53'-6" | 24 |
| ⚠1 #4F1 | 1 | 4 | 11'-3" | 126 |
| #6F2 | 1 | 6 | 11'-3" | 126 |
| #4H1 | 1 | 4 | 40'-0" | 28 |
| #4H2 | 1 | 4 | 49'-6" | 14 |
| * #5V1 | 1 | 5 | 11'-0" | 122 |
| * #4V2 | 1 | 4 | 11'-0" | 126 |
| #6S1 | 2 | 6 | 19'-8" | 64 |
| #4S2 | 3 | 4 | 2'-6" | 122 |
| #4S3 | 4 | 4 | 6'-5" | 126 |

* GRADE 40 REINFORCEMENT

CARLOS G. PADILLA NEW MEXICO 21728 REGISTERED PROFESSIONAL ENGINEER

# NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

SUBSTRUCTURE DETAILS
ABUTMENT NO. 2 DETAILS

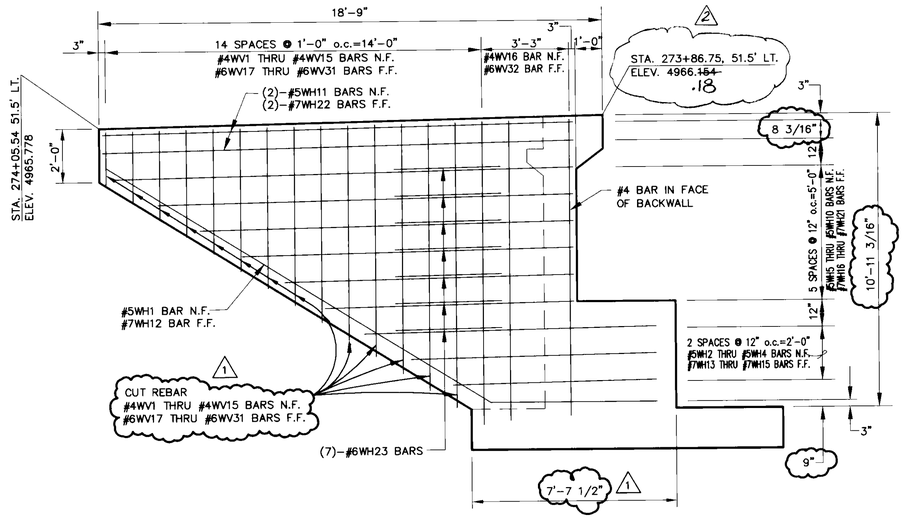
5-14.DWG

N.M. PROJECT NO. SDM-4008(208) SHEET 5-14

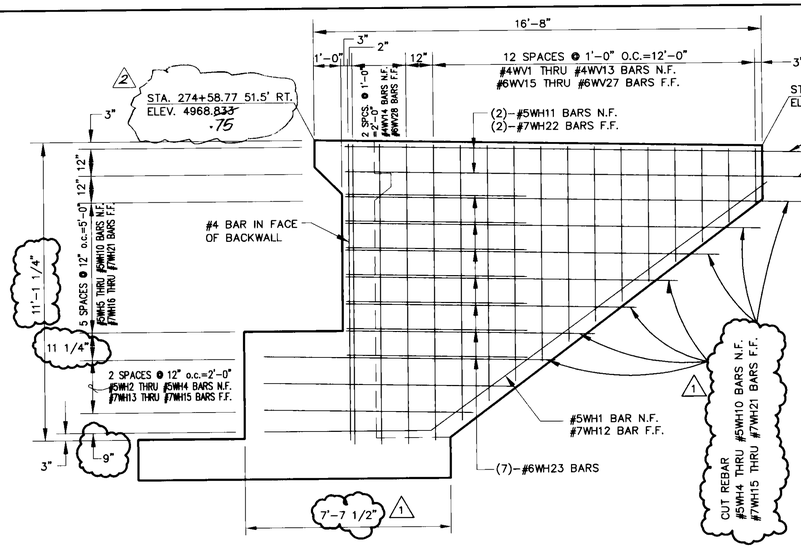
| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 5-15 |

CN 2837

AVID ENGINEERING, INC.




## LEFT WINGWALL ELEVATION AT ABUT. NO. 2



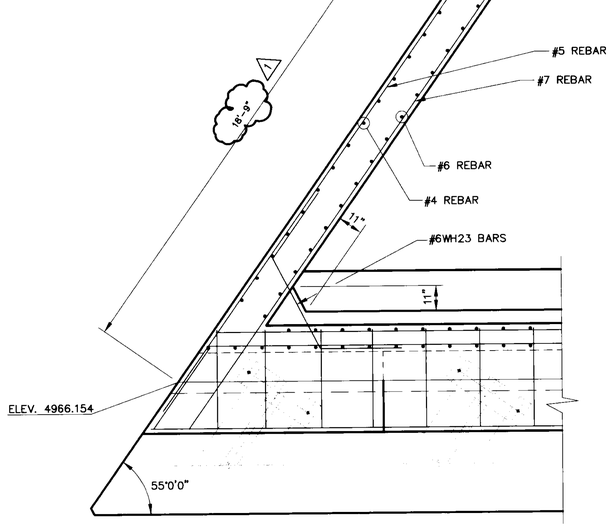

## RIGHT WINGWALL ELEVATION AT ABUT. NO. 2

### REINFORCING STEEL FOR LEFT WINGWALL

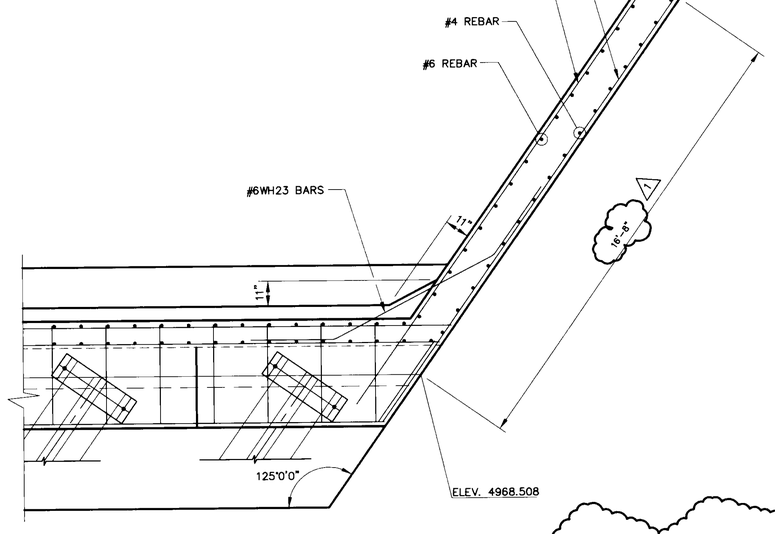
| BAR | TYPE | SIZE | LENGTH | NO. REQ'D |
|---|---|---|---|---|
| #5WH1 | 2 | 5 | 23'-6" | 1 |
| #5WH2 | 1 | 5 | 7'-9" | 1 |
| THRU | | INC. | 1'-6 1/2" | 3 TOTAL |
| #5WH4 | 1 | 5 | 10'-10" | 1 |
| #5WH5 | 1 | 5 | 9'-3" | 1 |
| THRU | | INC. | 1'-6 1/2" | 6 TOTAL |
| #5WH10 | 1 | 5 | 17'-0" | 1 |
| #5WH11 | 1 | 5 | 17'-6" | 2 |
| #7WH12 | 2 | 7 | 23'-6" | 1 |
| #7WH13 | 1 | 7 | 7'-9" | 1 |
| THRU | | INC. | 1'-6 1/2" | 3 TOTAL |
| #7WH15 | 1 | 7 | 10'-10" | 1 |
| #7WH16 | 1 | 7 | 9'-3" | 1 |
| THRU | | INC. | 1'-6 1/2" | 6 TOTAL |
| #7WH21 | 1 | 7 | 17'-0" | 1 |
| #7WH22 | 1 | 7 | 17'-6" | 2 |
| #6WH23 | 4 | 6 | 9'-9" | 7 |
| #4WV1 | 1 | 4 | 2'-0" | 1 |
| THRU | | INC. | 7 3/4" | 15 TOTAL |
| #4WV15 | 1 | 4 | 11'-0" | 1 |
| #4WV16 | 1 | 4 | 11'-2" | 1 |
| #6WV17 | 1 | 6 | 2'-0" | 1 |
| THRU | | INC. | 7 3/4" | 15 TOTAL |
| #6WV31 | 1 | 6 | 11'-0" | 1 |
| #6WV32 | 1 | 6 | 11'-2" | 1 |

### REINFORCING STEEL FOR RIGHT WINGWALL

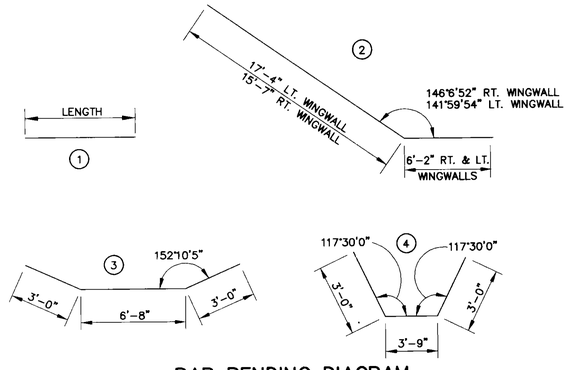
| BAR | TYPE | SIZE | LENGTH | NO. REQ'D |
|---|---|---|---|---|
| #5WH1 | 2 | 5 | 21'-9" | 1 |
| #5WH2 | 1 | 5 | 7'-9" | 1 |
| THRU | | INC. | 1'-6 1/2" | 3 TOTAL |
| #5WH4 | 1 | 5 | 10'-10" | 1 |
| #5WH5 | 1 | 5 | 9'-3" | 1 |
| THRU | | INC. | 1'-6 1/2" | 6 TOTAL |
| #5WH10 | 1 | 5 | 17'-0" | 1 |
| #5WH11 | 1 | 5 | 17'-6" | 2 |
| #7WH12 | 2 | 7 | 21'-9" | 1 |
| #7WH13 | 1 | 7 | 7'-9" | 1 |
| THRU | | INC. | 1'-6 1/2" | 3 TOTAL |
| #7WH15 | 1 | 7 | 10'-10" | 1 |
| #7WH16 | 1 | 7 | 9'-3" | 1 |
| THRU | | INC. | 1'-6 1/2" | 6 TOTAL |
| #7WH21 | 1 | 7 | 17'-0" | 1 |
| #7WH22 | 1 | 7 | 17'-6" | 2 |
| #6WH23 | 3 | 6 | 12'-8" | 7 |
| #4WV1 | 1 | 4 | 2'-0" | 1 |
| THRU | | INC. | 9" | 13 TOTAL |
| #4WV13 | 1 | 4 | 11'-0" | 1 |
| #4WV14 | 1 | 4 | 11'-2" | 3 |
| #6WV15 | 1 | 6 | 2'-0" | 1 |
| THRU | | INC. | 9" | 13 TOTAL |
| #6WV27 | 1 | 6 | 11'-0" | 1 |
| #6WV28 | 1 | 6 | 11'-2" | 3 |




## PLAN AT LEFT WINGWALL AT ABUT. NO. 2




## PLAN AT RIGHT WINGWALL AT ABUT. NO. 2




## BAR BENDING DIAGRAM

REVISIONS HIGHLIGHTED BY CLOUD

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | Wingwall Elevations | 6/21/99 | CGP |
| 1 | REBAR CUTS & DIMENSIONS | 4/13/98 | CGP |

REVISIONS (OR CHANGE NOTICES)

CARLOS G. PADILLA NEW MEXICO 11040 REGISTERED PROFESSIONAL ENGINEER 6/21/99

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

SUBSTRUCTURE DETAILS
ABUT. NO. 2 WINGWALLS

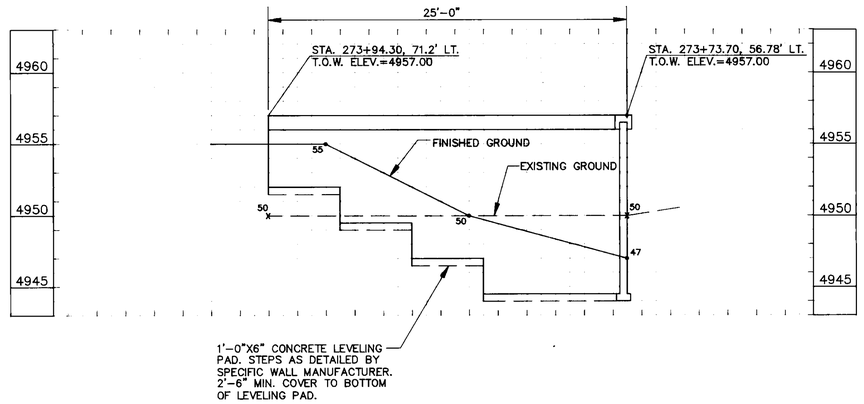
5-15.DWG

N.M. PROJECT NO. SDM-4008(208) SHEET 5-15

AVID ENGINEERING, INC.

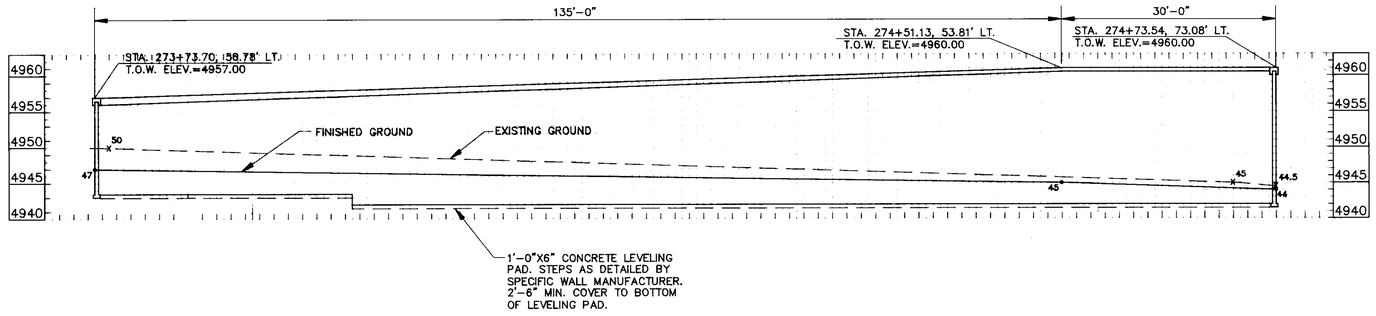
| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 5-16 |

CN 2838



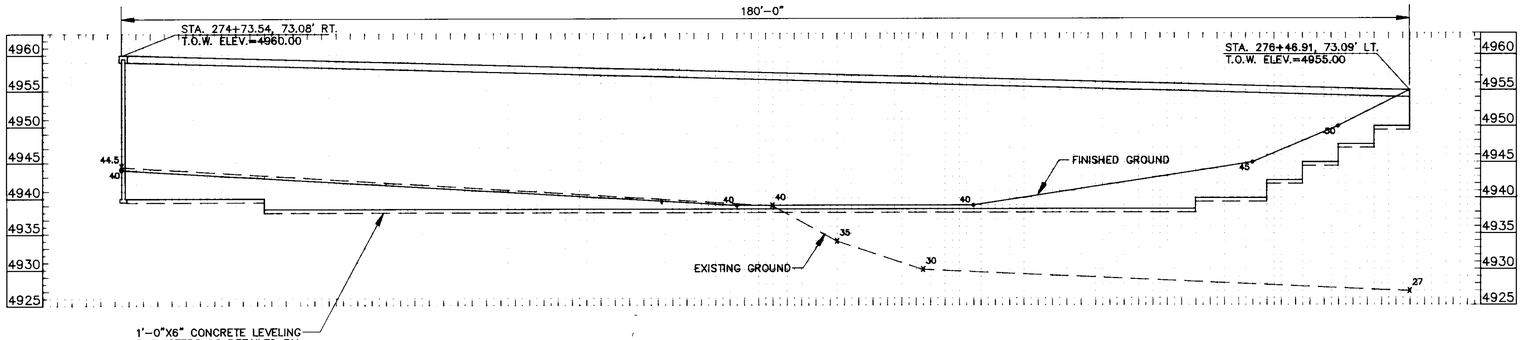

## NORTH WALL ELEVATION

SCALE: 1"-5'




## FRONT WALL ELEVATION

SCALE: 1"-10'




## SOUTH WALL ELEVATION

SCALE: 1"-10'

NOTES:

1.) THE DESIGN HORIZONTAL PRESSURES ON THE PANEL FACES SHALL BE DETERMINED USING MYERHOF'S ASSUMPTIONS ACCOUNTING FOR THE SOIL REINFORCEMENT MASS ECCENTRICITY.

2.) THE SACRIFICIAL STEEL COMPUTATION MAY BE MADE USING A CARBON STEEL LOSS RATE OF 12 MICRONS PER YEAR AFTER ZINC DEPLETION.

3.) REINFORCING STRAPS EMBEDDED IN SELECT BACKFILL SHALL BE PROVIDED AT THE ABUTMENT BACKWALL. SPACING SHALL BE AS PROVIDED FOR THE TOP LAYER OF REINFORCED EARTH WALL. ANCHOR TO BACKWALL AS DETAILED BY WALL SUPPLIER. COST OF REINFORCING STRAPS AND SELECT BACKFILL SHALL BE INCIDENTAL TO THE INSTALLATION OF REINFORCED EARTH WALL.

4.) PAYMENT FOR THE CONSTRUCTION OF REINFORCED EARTH WALLS AT ABUT. NO. 2 SHALL BE BASED ON THE ESTIMATED QUANTITY AT ABUT. NO. 2 SHOWN ON SHEET 5-1. THE ESTIMATED QUANTITIY IS BASED ON THE DRAWINGS SHOWN ON THIS SHEET. THE FINAL SQUARE FOOTAGE OF WALL INSTALLED MAY DIFFER FROM THE ESTIMATED QUANTITY AS A RESULT OF THE SUPPLIERS DETAILING FOR THE WALL CONFIGURATION. NO ADJUSTMENTS IN MEASUREMENT OR PAYMENT WILL BE MADE.

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

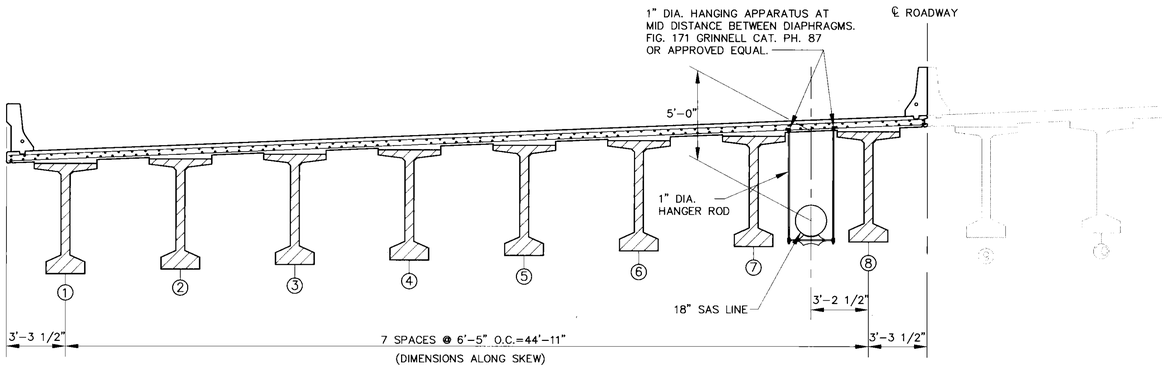
Cathy G. Riddle 7/28/99

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

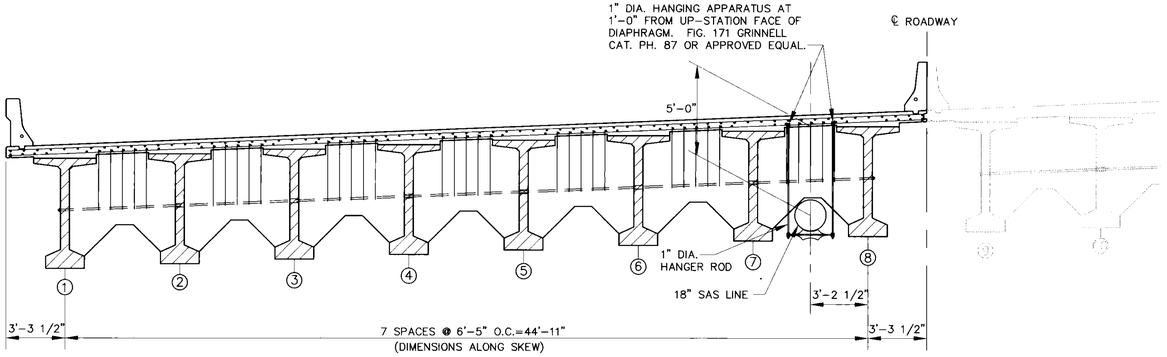
SUBSTRUCTURE DETAILS
REINFORCED EARTH WALLS
AT ABUT. NO. 2

N.M. PROJECT NO. SDM-4008(208) SHEET 5-16



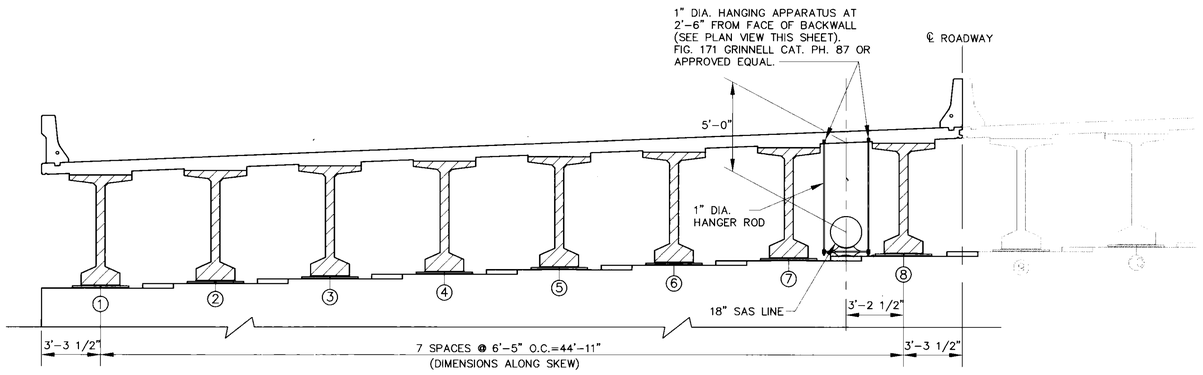

## SECTION BETWEEN DIAPHRAGMS

SCALE: 1/4"=1'-0"



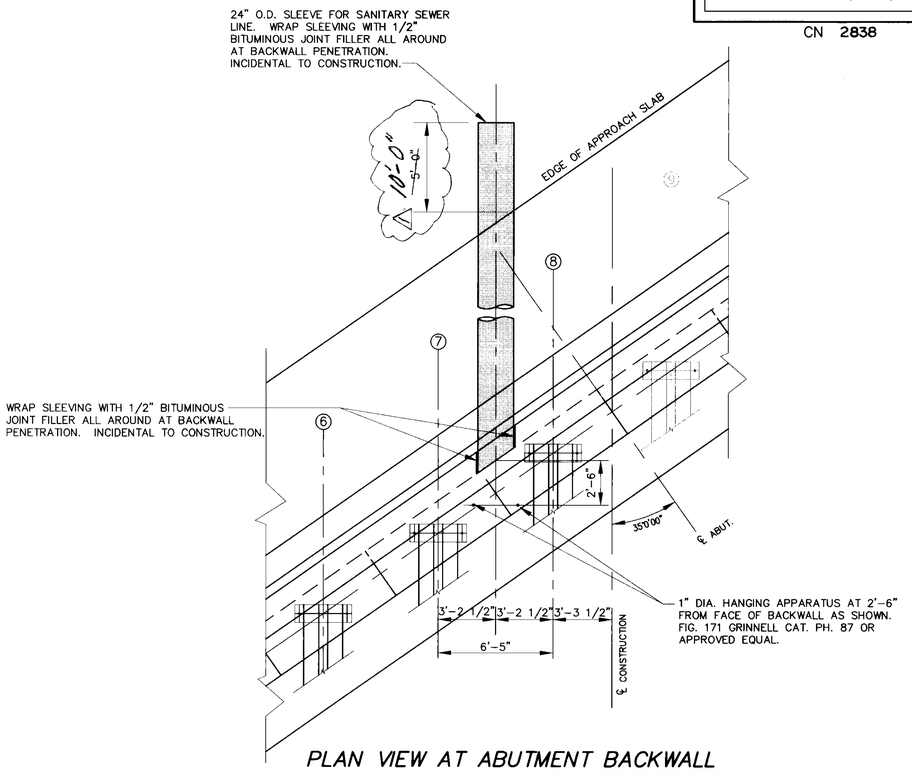

## SECTION AT INTERMEDIATE DIAPHRAGMS

SCALE: 1/4"=1'-0"



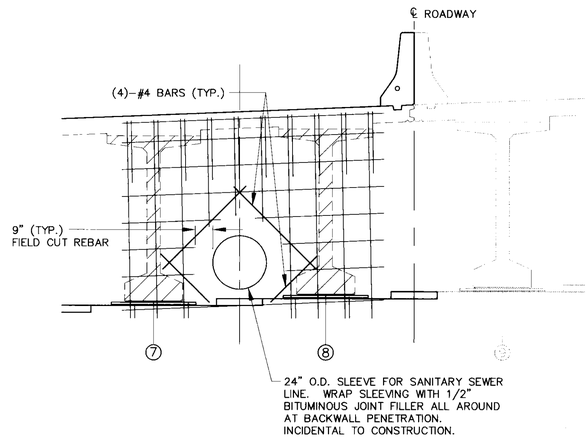

## SECTION AT ABUTMENT BACKWALL

SCALE: 1/4"=1'-0"




## PLAN VIEW AT ABUTMENT BACKWALL

SCALE: 1/4"=1'-0"




## TYPICAL BLOCKOUT DETAIL AT ABUTMENT BACKWALLS

NO SCALE

NOTES:
1. CONTRACTOR SHALL PROVIDE FOR AND INSTALL THREADED INSERTS, PIPE HANGERS, BACKWALL BLOCKOUTS, AND SLEEVING FOR SANITARY SEWER LINE AS SHOWN ON THIS SHEET. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
2. CUT REBAR AROUND PIPE SLEEVE INSERTIONS, PLACE #4 REBAR REINFORCEMENT AROUND PIPE SLEEVES SEE TYPICAL BLOCKOUT DETAIL THIS SHEET.

CARLOS G. PADILLA NEW MEXICO 21040 REGISTERED PROFESSIONAL ENGINEER 3/16/99

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | 24" Sleeve Dimension | 6/21/99 | CGP |

REVISIONS (OR CHANGE NOTICES)

AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 5-18a |

CN 2838

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO
BRIDGE OVER THE AMOLE CHANNEL

PIPE HANGER DETAILS

C:\PROJECTS\RIOBRAVO\DRAWINGS\HANGER2.DWG

N.M. PROJECT NO. SDM-4008(208) SHEET 5-18a

## TABLE OF ALLOWABLE MOVEMENT LENGTHS AND ACCEPTABLE JOINT SEALS

| SKEW | MOVEMENT LENGTH (FEET) | | | | MANUFACTURER | | | | JOINT MOVEMENT | * "A" (DIMENSION @ MID TEMP $T_0$) |
|---|---|---|---|---|---|---|---|---|---|---|
| | CONCRETE BRIDGE | | STEEL BRIDGE | | WATSON-BOMAN AND ACME | D.S. BROWN CO., INC. | STRUCTURAL ACCESSORIES INC. | R.J.WATSON △3 | | |
| | SEVERE CLIMATE (-10°TO120°F) $T_0$ = 55°F | MODERATE CLIMATE (20°TO120°F) $T_0$ = 70°F | SEVERE CLIMATE (-30°TO120°F) $T_0$ = 45°F | MODERATE CLIMATE (0°TO120°F) $T_0$ = 60°F | "STRIP SEAL" MODEL NO. | "STEELFLEX" MODEL NO. | "ONFLEX" MODEL NO. | "STRIP SEAL" MODEL NO. | (IN.) | (IN.) |
| 0° to 15° | 0-427 | 0-556 | 0-342 | 0-427 | SE-400 | A2-400 | 40SEQ | RJ-400 | 0 TO 4 | 2 |
| 15° to 30° | 0-442 | 0-575 | 0-354 | 0-442 | SE-400 | A2-400 | 40SEQ | RJ-400 | 0 TO 4 | 2 |
| 30° to 45° | 0-493 | 0-642 | 0-395 | 0-493 | SE-400 | A2-400 | 40SEQ | RJ-400 | 0 TO 4 | 2 |

* MAXIMUM "A" IS EQUAL TO TOTAL JOINT MOVEMENT

## REQUIRED DRAWINGS

| | |
|---|---|
| BJS-001 | GENERAL DATA |
| BJS-002 | TYPE I INSTALLATION |
| BJS-003 | TYPE II INSTALLATION |

## GENERAL NOTES

1. JOINT SEALS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEALS HAVING EQUAL PERFORMANCE CHARACTERISTICS TO THOSE SHOWN MAY BE SUBSTITUTED IF THE ENGINEER'S WRITTEN APPROVAL IS OBTAINED AT LEAST TWO WEEKS PRIOR TO THE DAY OF THE BID OPENING.

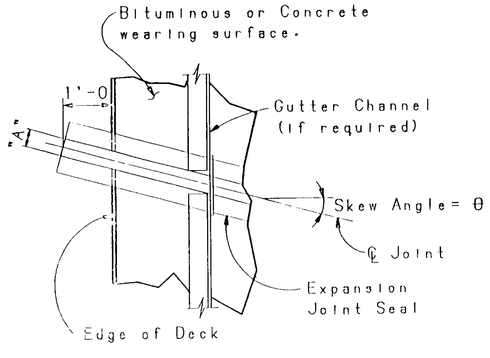
2. JOINT SEAL SIZES ARE BASED ON AN INSTALLATION TEMPERATURE OF $T_0$ (DEGREES F, MIDPOINT TEMPERATURE) AND JOINT MOVEMENTS FOR A RANGE OF TEMPERATURES AS NOTED IN THE TABLE ON THIS SHEET.
   FOR INSTALLATION TEMPERATURES BELOW $T_0$ INCREASE DIMENSION "A" BY THE AMOUNT SHOWN BELOW. FOR INSTALLATION TEMPERATURE ABOVE $T_0$ DECREASE DIMENSION "A" BY THE AMOUNT SHOWN BELOW.

   FOR CONCRETE BRIDGES:
   CHANGE IN "A" = $0.000072 \times L \times \cos\theta \times \Delta T$
   FOR STEEL BRIDGES:
   CHANGE IN "A" = $0.000078 \times L \times \cos\theta \times \Delta T$
   WHERE:
   CHANGE IN "A" IS IN INCHES.
   L = MOVEMENT LENGTH IN FEET (SEE SUPERSTRUCTURE D[illegible]
   $\theta$ = SKEW ANGLE
   $\Delta T$ = CHANGE IN TEMPERATURE FROM $T_0$ IN DEGREES F.
   EXAMPLE: (CONCRETE BRIDGE IN SEVERE CLIMATE $T_0$ =55°F)
   FOR T = 73°F, L = 100 FT, $\theta$ = 28°
   CONCRETE BRIDGE, $\Delta T$ = 73°- 55°= 18°F
   CHANGE IN "A" = 0.000072 X 100 X 0.8829 X 18
   = 0.1144 INCHES; SAY 1/8 INCH

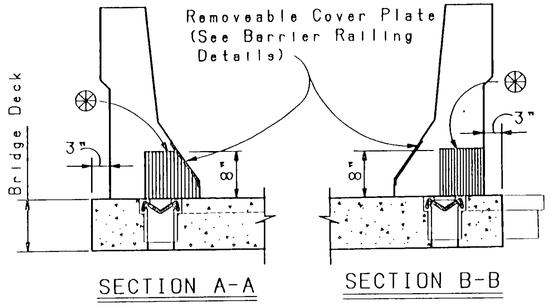
3. UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR HAS THE OPTION OF INSTALLING EITHER TYPE I OR TYPE II JOINTS.

4. UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL STRUCTURES SHALL BE CONSIDERED TO BE SUBJECTED TO A SEVERE CLIMATE.

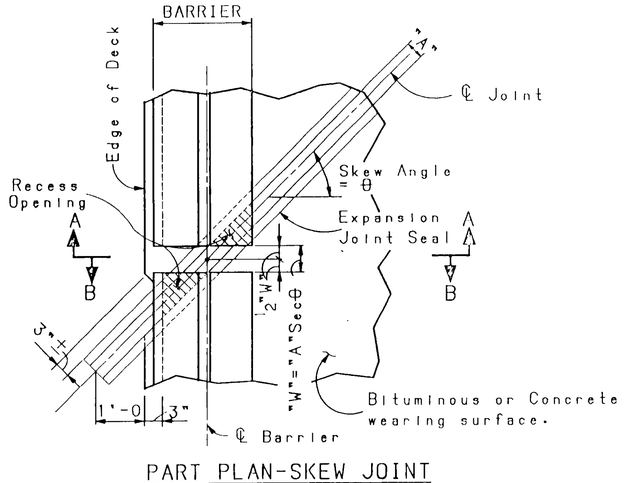
△3 5. ALL SURFACES OF STEEL COMPONENTS OF THE SEAL, EXCEPT THOSE WHICH WILL BE IN CONTACT WITH THE ELASTOMERIC SEALING ELEMENT, SHALL BE GIVEN A PROTECTIVE COATING IN CONFORM[illegible] WITH THE SPECIFICATIONS. IN LIEU OF PAINTING, ALL COMPONENTS OF THE SEAL MAY BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO SPECIFICATION M-111.




PART PLAN - SKEWED JOINT
WITH METAL RAILING




SIMILAR DETAIL FOR CURB AND SIDEWALK.
⊛ Recess in base of wall barrier.




PART PLAN-SKEW JOINT
WITH CONCRETE BARRIER RAILING

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 6 | | | |
| 5 | | | |
| 4 | | | |
| 3 | REV. GEN. NOTE 5. ADD NEW MFGR | 10/92 | SJR |
| 2 | REVISED GENERAL NOTES | 1/92 | SJR |
| 1 | GENERAL REVISIONS | 1/90 | ERD |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION DEPARTMENT

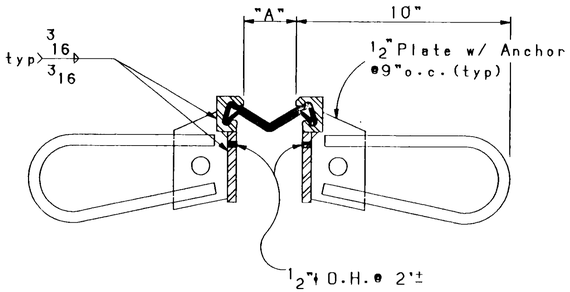
ELASTOMERIC EXPANSION
JOINT SEALS
FOR BRIDGES
GENERAL DATA

LAYOUT BY
DRAWN BY J.J.K. 1/90
CHECKED BY S.J.R. 1/90
APPROVAL
RECOMMENDED BRIDGE ENGINEER
APPROVED

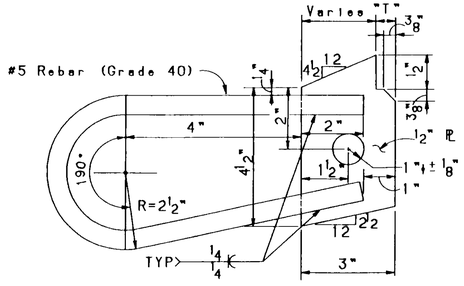
SERIAL BJS-001-03

11/10/92
1/90 CHECKED
1/90 CHECKED BY:
1/90 PLOT DA

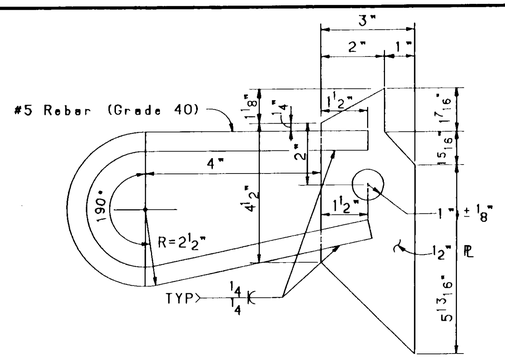
BRIDGE#1/STANDARDS/BRIDGE/SPECIAL-DRAW433XX



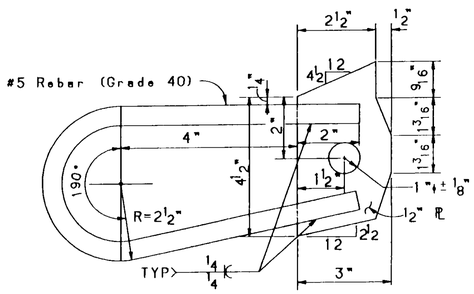

TYPICAL SECTION



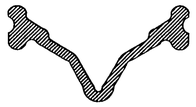

ANCHOR DETAIL




3 ANCHOR DETAIL (WATSON-BOWMAN & ACME)




3 ANCHOR DETAIL (D.S. BROWN CO.)

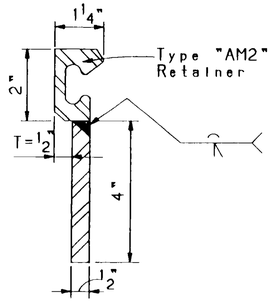


ONFLEX 40SEQ SEAL

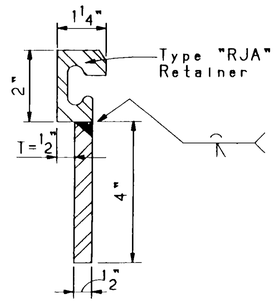
RJ SERIES STRIP SEAL

STRIP SEAL TYPE (SE)

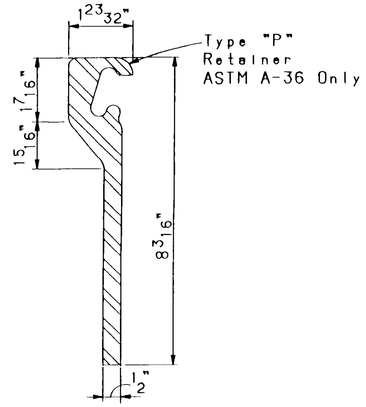
3 STEELFLEX SERIES SEAL



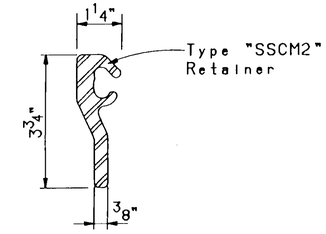

STRUCTURAL ACCESSORIES, INC.



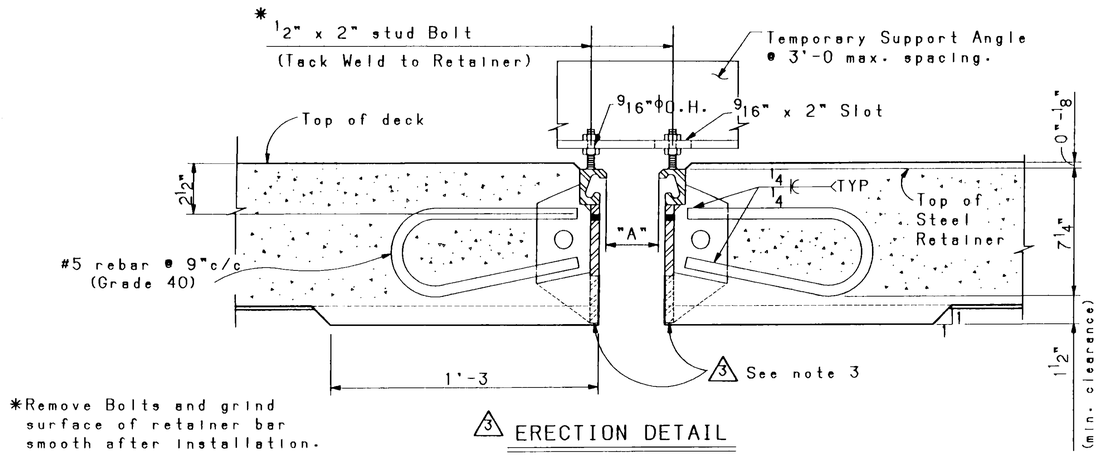

R.J.WATSON




3 WATSON-BOWMAN & ACME




3 D.S. BROWN CO.




*Remove Bolts and grind surface of retainer bar smooth after installation.

3 ERECTION DETAIL

3 NOTES

1. See Serial BJS-001 for appropriate model numbers and dimension "A".
2. The 1/2" plate may be altered slightly from the detail shown to better fit the steel retainer provided.
3. The temporary support angle shall be secured in position so as to provide for lateral and vertical adjustment of the retainer bars and permit final finishing of the concrete surface as approved by the project manager.
4. The depth of the WATSON-BOWMAN & ACME retainer type "P" shall be maintained at 8 3/16" as shown.

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 5 | | | |
| 4 | | | |
| 3 | REV. WATSON-BOWAN & ACME RET.. ANCHOR DETAILS. | | |
| | NOTES, D.S.BROWN RET. & STEELFLEX JT. | 6/95 | KWZ |
| 2 | GEN. REV. ADD NEW SEAL | 10/92 | SJM |
| 1 | GENERAL REVISIONS | 1/90 | ERD |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

ELASTOMERIC EXPANSION JOINT SEALS FOR BRIDGES TYPE I INSTALLATION

LAYOUT BY:
DRAWN BY: J.A.K. 12/89
CHECKED BY:

APPROVAL RECOMMENDED BRIDGE ENGINEER — DATE 7/11/95
APPROVED DESIGN BUREAU CHIEF — DATE 6/14/95

SERIAL BJS-002

PLOT DATE: 6/19/95

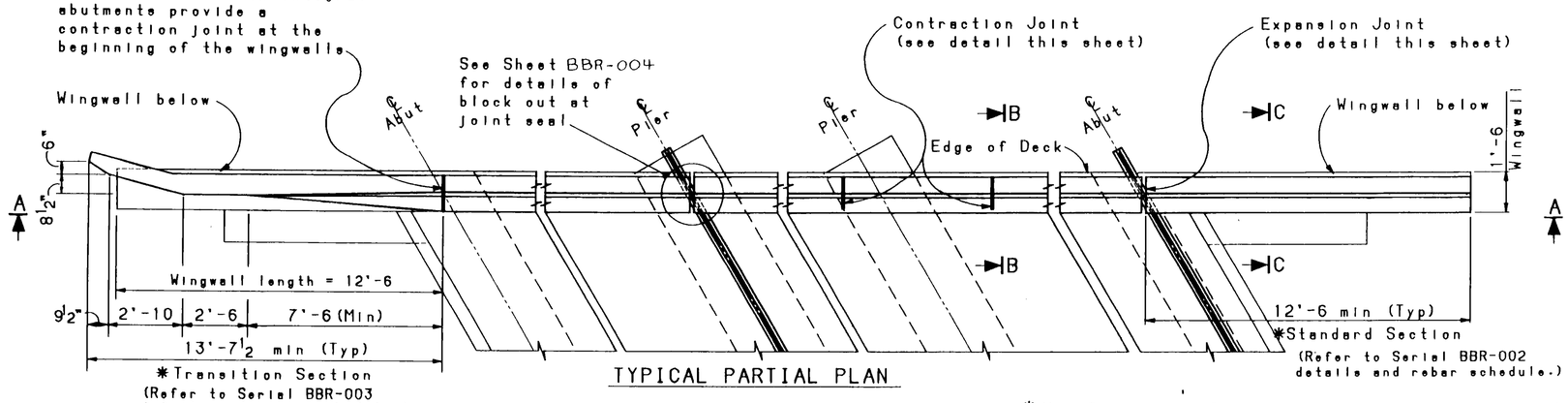
DESIGNED BY: E.R.D. 12/89 CHECKED BY: S.J.M.
DETAILED BY: J.A.K. 12/89 CHECKED BY: E.R.D.

BRIDGE#1/STANDARDS/BRIDGE/SPECIAL-DRAW$36

| F.H.W.A. REGION NO: 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM - 4008(208) | 5-21 |

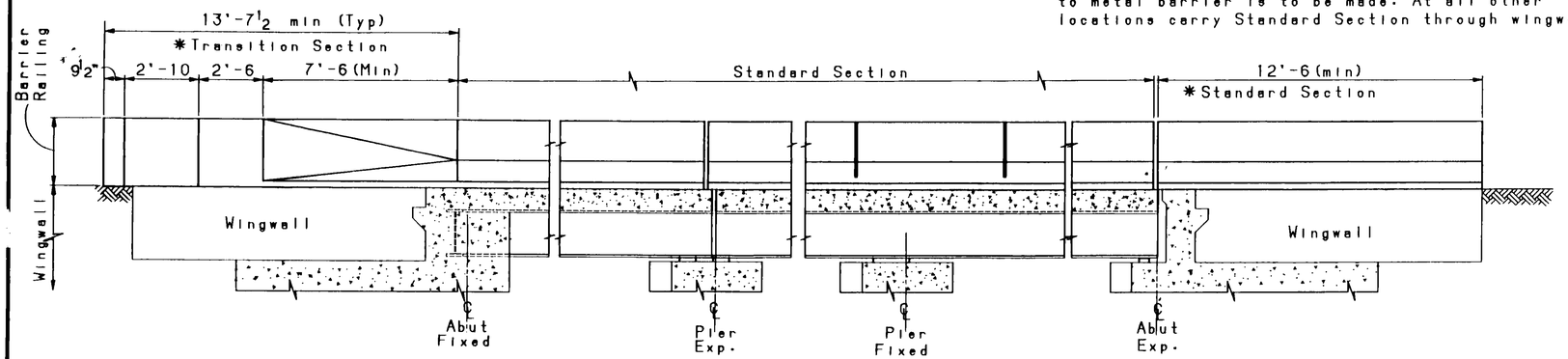
CN 2838

For structures with integral abutments provide a contraction joint at the beginning of the wingwalls.

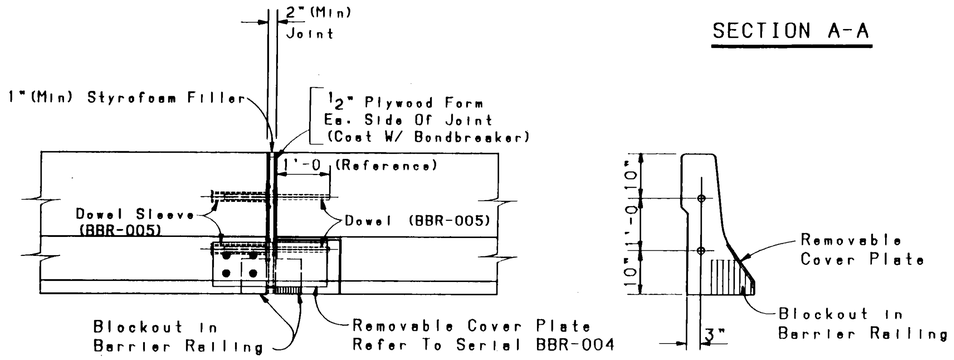



TYPICAL PARTIAL PLAN

* Use Transition Section only where an attachment to metal barrier is to be made. At all other locations carry Standard Section through wingwall.




SECTION A-A



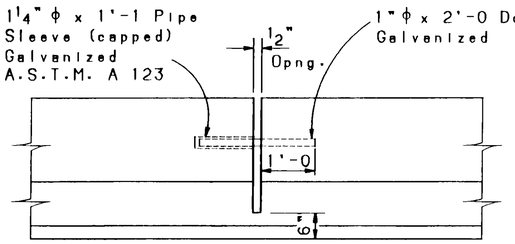

ELEVATION



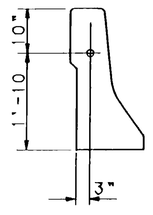

SECTION

## ⚠ EXPANSION JOINT DETAIL

Provide Expansion Joints at each deck slab joint. Refer to Serial BBR-005 for for details of the joint, forming materials and dowels.




ELEVATION




SECTION

## CONTRACTION JOINT DETAIL

Provide Contraction Joints at equally spaced intervals (15' min, 30'max) between Expansion Joints or, for structures with integral abutments, between contraction joints at wingwalls.

## DESIGN DATA

DESIGN IS IN ACCORDANCE WITH AASHTO SPECIFICATIONS DATED 1989 AND LATEST INTERIMS.
f'c=3,000 psi @ 28 days, fc=1,200 psi
fy=60,000 psi, fs=24,000 psi, n=9.2

## GENERAL NOTES

1. CONCRETE FOR BARRIER RAILING SHALL BE SUPERSTRUCTURE CONCRETE CLASS "AA". BARRIER RAILING SHALL BE PAID FOR AT THE UNIT PRICE PER LINEAR FOOT, INCLUDING COMPLETELY EMBEDDED REINFORCING STEEL, ANCHOR BOLTS AND ANY OTHER COMPLETELY EMBEDDED OR APPURTENANT STEEL ITEMS. BARRIER RAILING SHALL BE CAST-IN-PLACE USING REMOVABLE FORMS.
2. REINFORCING STEEL SHALL BE EPOXY COATED AND SHALL CONFORM TO A.A.S.H.T.O. SPECIFICATION M 31, GRADE 60. DIMENSIONS REFER TO CENTERLINE OF BAR UNLESS NOTED OTHERWISE ON THE DRAWINGS.
3. BARRIER RAILING INSTALLATIONS ON DECK SLABS MAY BE TYPE 1, 2, OR 3 AT THE OPTION OF THE CONTRACTOR. DECK THICKNESS (NEW OR EXISTING) MUST BE APPROPRIATE FOR THE TYPE OF INSTALLATION SELECTED.
4. FOR DETAILS OF BARRIER RAILING CONNECTION TO THE APPROACH METAL BARRIER - SEE TRAFFIC PLANS.
5. REFLECTIVE BARRIER DELINEATORS SHALL BE MOUNTED ON TOP OF THE BARRIER RAILING IN CONFORMANCE WITH THE TRAFFIC PLANS.
6. APPLY PENETRATING WATER REPELLANT TREATMENT TO ALL EXPOSED SURFACES OF THE BARRIER RAILING.
7. DISCONTINUE HORIZONTAL REINFORCEMENT AT ALL EXPANSION AND CONTRACTION JOINT OPENINGS.
8. STRUCTURAL STEEL FOR REMOVABLE COVER PLATES AT THE EXPANSION JOINTS SHALL CONFORM TO A.A.S.H.T.O. SPECIFICATION M-183, AND SHALL BE GIVEN A PROTECTIVE COATING IN CONFORMANCE WITH THE SPECIFICATIONS. GALVANIZE ALL BOLTS AND HARDWARE.
9. COST OF REMOVABLE COVER PLATES, IN PLACE, SHALL BE CONSIDERED INCIDENTAL TO THE COST OF BARRIER RAILING.
10. CONSTRUCTION JOINTS BETWEEN BARRIER RAILING AND BRIDGE DECK CONCRETE SHALL BE CLEANED AND ROUGHENED PRIOR TO PLACEMENT OF BARRIER RAILING CONCRETE AS IS REQUIRED BY THE SPECIFICATIONS. THE APPLICATION OF A MORTAR COATING TO THE SURFACE OF THE BRIDGE DECK CONCRETE WILL HOWEVER NOT BE REQUIRED.

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 6 | | | |
| 5 | | | |
| 4 | | | |
| 3 | | | |
| 2 | | | |
| 1 | REVISED EXPANSION JOINT DETAIL | 3/8/95 | P.H. |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

BARRIER RAILING GENERAL DETAILS

LAYOUT BY D.J.S. DRAWN BY J.A.K. CHECKED BY S.B.D.

APPROVAL RECOMMENDED Bridge Engineer 3/17/95 DATE

APPROVED Bridge Bureau Chief 5/2/95 DATE

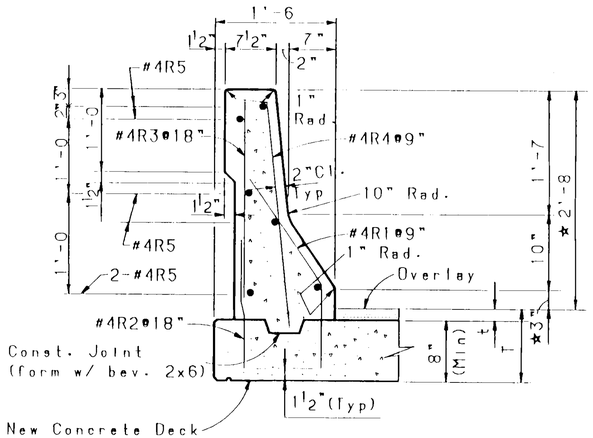
SERIAL BBR-001

PLOT DATE: 3/13/95

DESIGNED BY: C.J.K. 7/89 CHECKED BY: S.J.M. 10/89
DETAILED BY: J.A.K. 7/89 CHECKED BY: E.R.C. 10/89

BRIDGE#1/STANDARDS/BRIDGE/MISC-DRAWS105A
SR3-8

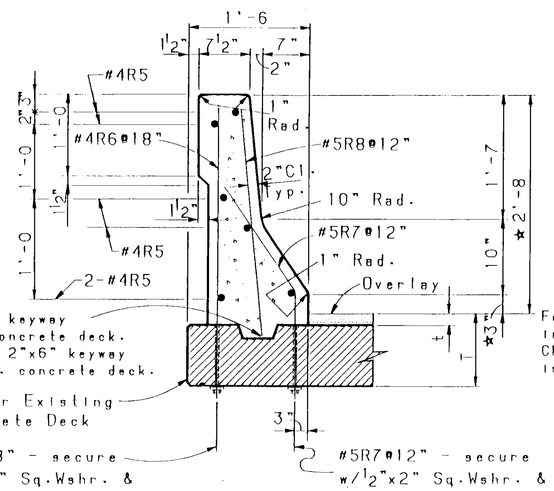
F.H.W.A. REGION NO. 6 | SHEET NO.
NEW MEXICO PROJECT NO. | 5-22
SDM-4008(208)
CN 2838



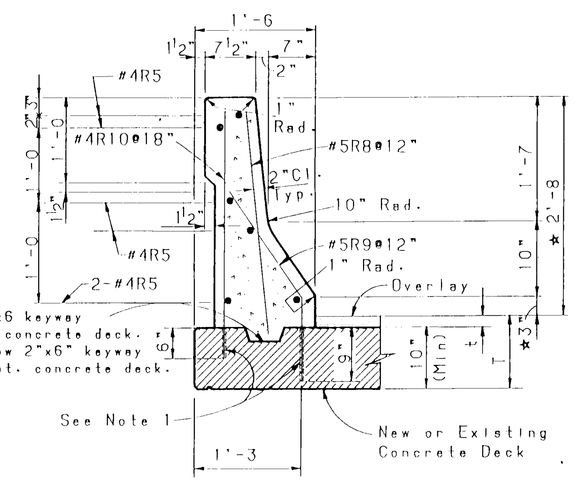

TYPE "1"

Place #4R1 and #4R2 bars with bridge deck reinforcement.

☆ These dimensions shall be measured above top of wearing surface. (Top of concrete deck, or top of overlay - if any). In determining dimensions of the #4R1, #4R6 or #5R7 bars, the "T" dimension used shall include the thickness ("t") of any overlay.




TYPE "2"

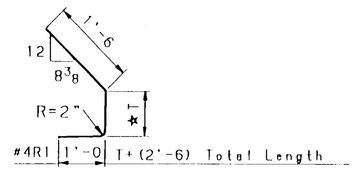



TYPE "3"

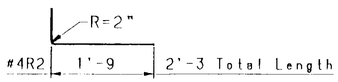
Note 1

Reinforcing bars shall be placed in ⅞" diameter cored holes, and grouted into place using a neat cement paste of portland cement and water. The water content shall be not more than 4 gallons per 94 pounds of cement. Retempering of grout will not be permitted. Immediately prior to placing the dowels the holes shall be cleaned of dust and other deleterious materials, shall be thoroughly saturated with water, have all free water removed and the holes shall be dried to a saturated surface dry condition. Sufficient grout shall be placed in the holes so that no voids remain after the dowels are inserted. Grout shall be cured for a period of 3 days or until the dowels are encased in concrete, whichever occurs first, by either the curing compound method or by keeping the surface of the grout continuously damp. Any dowels or grout which fail to bond or are damaged before the concrete is placed shall be removed and replaced. Cost of coring and grouting are to be included in the unit price bid for "BARRIER RAILING".

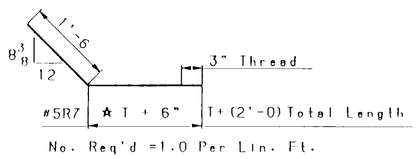
## SECTION B - B



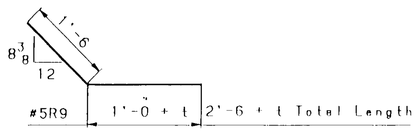

No. Req'd =1.33 Per Lin. Ft.



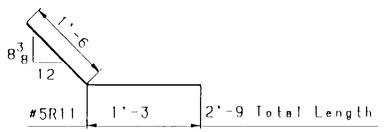

No. Req'd=0.67 Per Lin. Ft.




No. Req'd =1.0 Per Lin. Ft.




No. Req'd =1.0 Per Lin. Ft.




No. Req'd =1.0 Per Lin. Ft.

| Mark | Length | No. Req'd Lin. Ft. |
|---|---|---|
| #4R3 | 2'-6 + t | 0.67 |
| #4R4 | 2'-8 + t | 1.33 |
| #4R5 | Varies | 6 |
| ‡ #4R6 | ☆ T + 2'-9 | 0.67 |
| #5R8 | 2'-8 + t | 1.0 |
| #4R10 | 3'-0 + t | 0.67 |
| #4R12 | 2'-0 | 0.67 |

‡ Thread one end 3"
t = Thickness of overlay

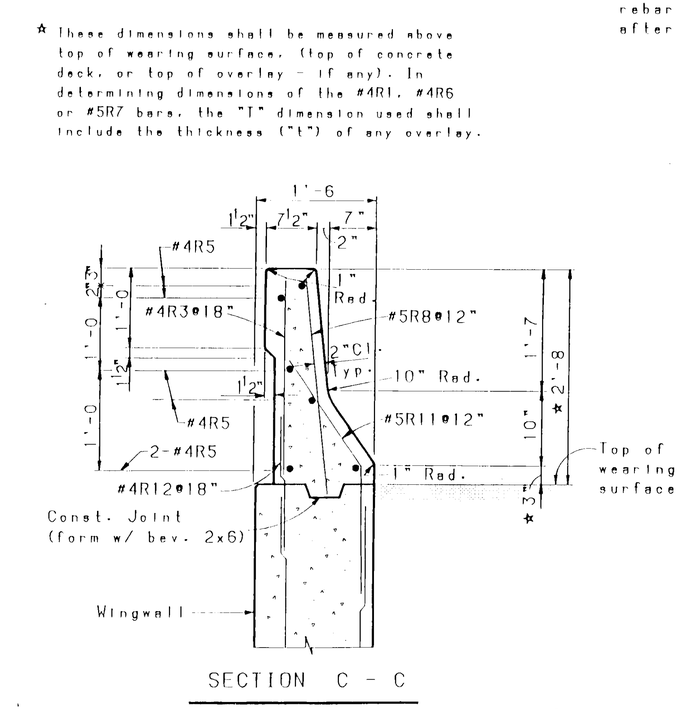
## ESTIMATED QUANTITIES

(FOR CONTRACTORS INFORMATION ONLY)

| ITEM | UNIT | TOTAL |
|---|---|---|
| EPOXY COATED REINFORCING BARS, GRADE 60 | LB./FT. | 10.74 |
| SUPERSTRUCTURE CONCRETE CLASS "AA" | CU. YD./FT. | 0.080 |

The quantities shown in the above table are approximate only and may vary with the type of barrier rail selected.

**BASE BID**




SECTION C - C

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 6 | | | |
| 5 | | | |
| 4 | | | |
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

BARRIER RAILING

STANDARD SECTION DETAILS

LAYOUT BY: C.J.K.
DRAWN BY: J.A.K.
CHECKED BY: E.R.D.

APPROVAL RECOMMENDED: BRIDGE ENGINEER — DATE 3-5-92
APPROVED: DESIGN BUREAU CHIEF — DATE 3-6-92

SERIAL BBR-002

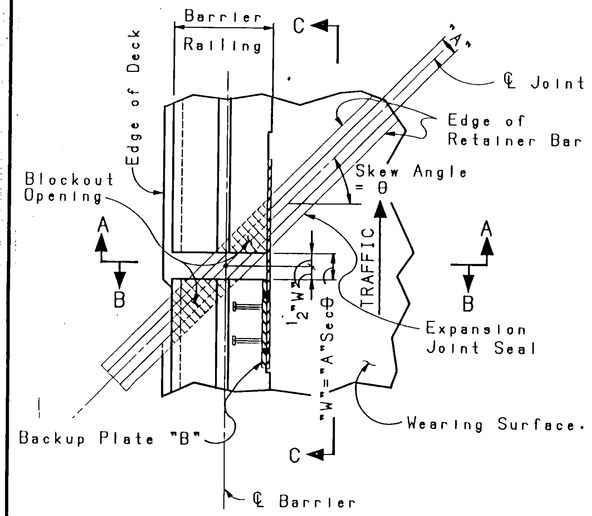
DESIGNED BY: C.J.K. 7/89 CHECKED BY: S.J.M. 10/89
DETAILED BY: J.A.K. 7/89 CHECKED BY: E.R.D. 10/89

PLOT DATE: 2/4/92

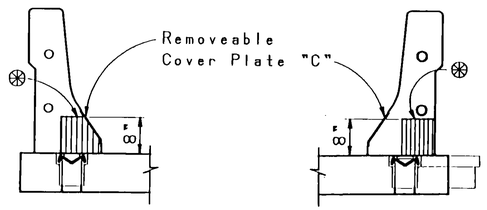
BRIDGE#1/STANDARDS/BRIDGE/MISC-DRAW$105B
SR3-8

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 5-23 |

CN 2838

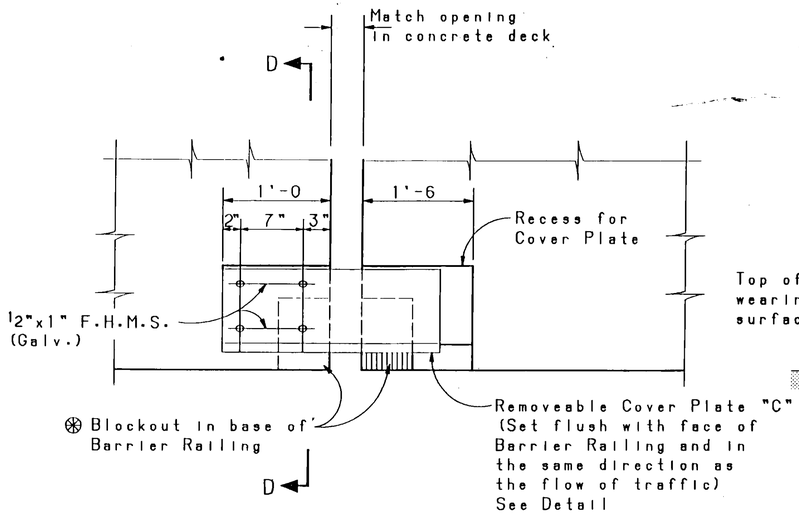



PART PLAN-SKEW JOINT
AT CONCRETE BARRIER RAILING



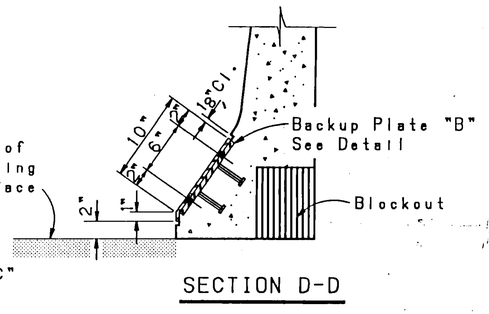

SIMILAR DETAIL FOR CURB AND SIDEWALK.

⊛ Blockout in base of Barrier Railing.

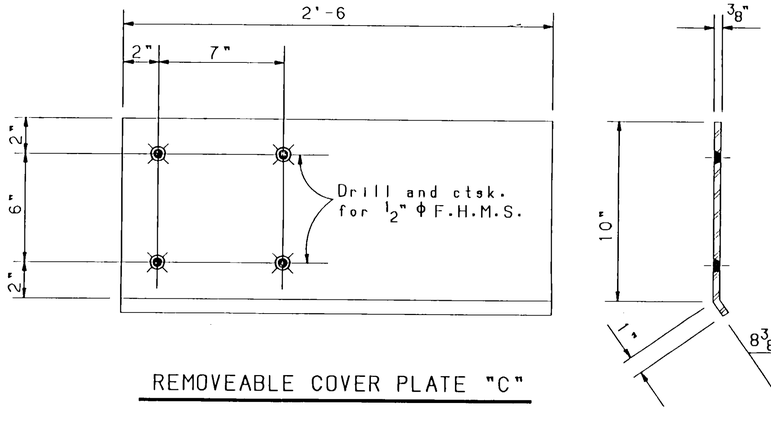



ELEVATION C-C

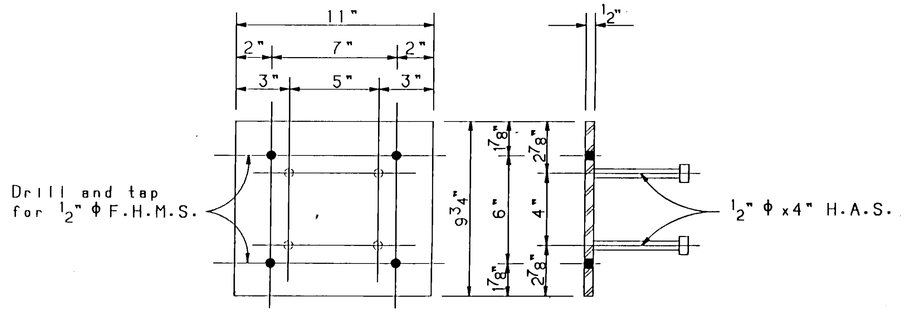
Provide Expansion Joints at each deck slab joint.



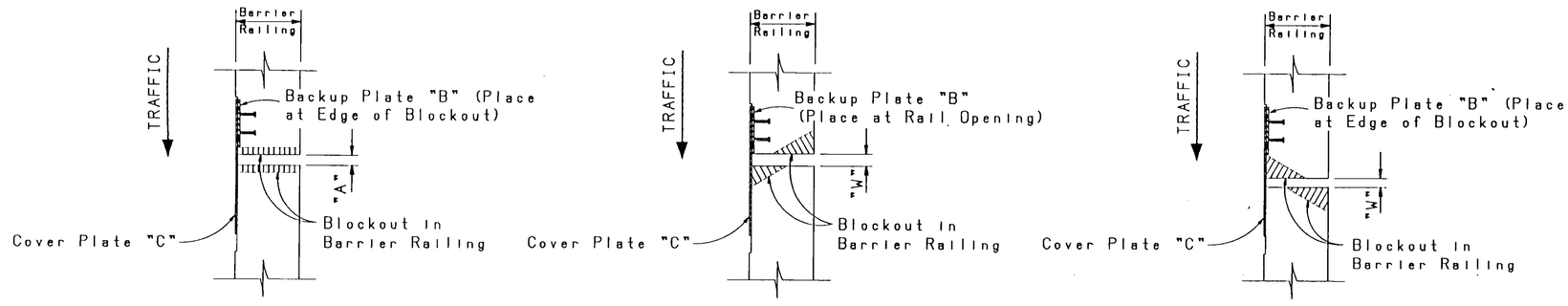

SECTION D-D




REMOVEABLE COVER PLATE "C"




BACKUP PLATE "B"




BACKUP PLATE "B" LOCATIONS

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 6 | | | |
| 5 | | | |
| 4 | | | |
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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

BARRIER RAILING

DETAILS AT JOINT SEALS

LAYOUT BY: S.J.M.
DRAWN BY: J.A.K.
CHECKED BY: S.J.M.

APPROVAL RECOMMENDED: BRIDGE ENGINEER — 3/1/92 DATE
APPROVED: DESIGN BUREAU CHIEF — 2.6.92 DATE

SERIAL BBR-004

DESIGNED BY: S.J.M. 4/90 CHECKED BY: S.J.M.
DETAILED BY: J.A.K. 4/90 CHECKED BY:

PLOT DATE: 2/4/92

BRIDGE#1/STANDARDS/BRIDGE/MISC-DRAW$10SD
SR3-4

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 6-1 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use for field verification.

## TRAFFIC SIGNAL QUANTITIES (Estimated)

| NUMBER | ITEM | UNIT | RIO BRAVO / COORS QUANTITY | COORS / SHOP. CTR. QUANTITY | SIGNAL INTER. QUANTITY | TOTAL QUANTITY | USE QUANTITY |
|---|---|---|---|---|---|---|---|
| 511000 | STRUCTURAL CONCRETE, CLASS A | CU. YD. | 16.72 | 9.84 | 0.26 | 26.82 | 30 |
| 540060 | REINFORCING BARS GRADE 60 | POUND | 365 | 217 | | 582 | 590 |
| 706000 | SERVICE POLE (SIGNAL) | EACH | 1 | | | 1 | 1 |
| 706100 | SERVICE RISER (SIGNAL) | EACH | | 1 | | 1 | 1 |
| 706200 | METER PEDESTAL (SIGNAL) | EACH | 1 | 1 | | 2 | 2 |
| 707013 | TYPE I STANDARD, 13' | EACH | 2 | 3 | | 5 | 5 |
| 707231 | TYPE II ALBUQUERQUE STANDARD, 30' ARM | EACH | 1 | | | 1 | 1 |
| 707236 | TYPE II ALBUQUERQUE STANDARD, 35' ARM | EACH | 3 | 2 | | 5 | 5 |
| 709010 | RIGID ELECTRICAL CONDUIT 1" (DIA.) | LIN. FT. | 124 | 64 | | 188 | 200 |
| 709020 | RIGID ELECTRICAL CONDUIT 2" (DIA.) | LIN. FT. | 1600 | 861 | 353 | 2814 | 2850 |
| 709030 | RIGID ELECTRICAL CONDUIT 3" (DIA.) | LIN. FT. | 1600 | 550 | | 2150 | 2200 |
| 710010 | ELECTRICAL PULL BOX (LARGE) | EACH | 15 | 8 | 1 | 24 | 24 |
| 710300 | SPLICE CABINET | EACH | | | 2 | 2 | 2 |
| 710400 | TRAFFIC SIGNAL MANHOLE | EACH | 3 | 2 | | 5 | 5 |
| 711005 | MULTI CONDUCTOR CABLE 5 | LIN. FT. | 1250 | 692 | | 1942 | 2000 |
| 711007 | MULTI CONDUCTOR CABLE 7 | LIN. FT. | 300 | | | 300 | 350 |
| 711020 | MULTI CONDUCTOR CABLE 20 | LIN. FT. | 1550 | 647 | | 2197 | 2250 |
| 711104 | SINGLE CONDUCTOR 4 | LIN. FT. | 279 | | | 279 | 300 |
| 711106 | SINGLE CONDUCTOR 6 | LIN. FT. | | 686 | | 686 | 700 |
| 711512 | COMMUNICATION CABLE 12 PAIR | LIN. FT. | | | 371 | 371 | 400 |
| 712030 | 3 SECTION TRAFFIC SIGNAL ASSEMBLY | EACH | 7 | 6 | | 13 | 13 |
| 712050 | 5 SECTION TRAFFIC SIGNAL ASSEMBLY | EACH | 8 | 3 | | 11 | 11 |
| 712200 | PEDESTRIAN SIGNAL-NEON | EACH | 4 | 4 | | 8 | 8 |
| 712330 | 3-SECTION BACKPLATE | EACH | 4 | 3 | | 7 | 7 |
| 712350 | 5-SECTION BACKPLATE | EACH | 4 | 2 | | 6 | 6 |
| 713010 | LOOP VEHICLE DETECTOR | EACH | 12 | 6 | | 18 | 18 |
| 713020 | PUSH BUTTON STATION | EACH | 4 | 4 | | 8 | 8 |
| 713030 | LOOP DETECTOR WIRE | LIN. FT. | 7012 | 4382 | | 11394 | 11500 |
| 713250 | LOOP LEAD-IN CABLE | LIN. FT. | 8153 | 1652 | | 9805 | 9900 |
| 713300 | DETECTOR SAW CUT | LIN. FT. | 964 | 433 | | 1397 | 1450 |
| 714000 | TRAFFIC ACTUATED CONTROLLER | EACH | 1 | 1 | | 2 | 2 |
| 714280 | 8 PHASE DOUBLE RING CONTROLLER CABINET | EACH | 1 | 1 | | 2 | 2 |

### TRAFFIC SIGNAL NOTES

1. OWNERSHIP AND FUTURE MAINTENANCE OF THIS ROADWAY SIGNAL SYSTEM SHALL BELONG TO THE CITY OF ALBUQUERQUE. THEREFORE, ALL SIGNALIZATION MATERIALS SHOWN ON THESE PLANS SHALL CONFORM TO CITY OF ALBUQUERQUE STANDARDS.
2. MASTARMS SHALL BE PLACED 90° TO THE CENTERLINE UNLESS OTHERWISE NOTED.
3. MOUNT ALL CONTROLLERS SO DOORS FACE AWAY FROM TRAFFIC UNLESS OTHERWISE SHOWN ON PLANS OR DIRECTED BY THE PROJECT MANAGER.
4. SHOWN DISTANCES TO TRAFFIC SIGNAL POLES TO BE MEASURED FROM FACE OF CURB UNLESS OTHERWISE NOTED.
5. CONTROLLERS SHALL BE AS SPECIFIED.
6. ALL ITEMS UNDER SECTION 707-SIGNAL AND LIGHTING STANDARDS SHALL COMPLY TO THE "BUY AMERICA PROVISION" AS COVERED UNDER SPECIAL PROVISION MODIFYING SECTION 106-CONTROL OF MATERIALS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (1994 EDITION).
7. ALL SPLICES FOR TRAFFIC SIGNAL MULTI-CONDUCTOR CABLE SHALL BE PERMITTED IN LARGE PULL BOXES INCLUDING LARGE MEDIAN PULL BOXES.
8. ALL LOOP DETECTOR WIRE SHALL BE NO. 14 AWG STRANDED COPPER WIRE WITH CROSSLINKED POLYETHYLENE INSULATION (INDUSTRY TYPE XHHW) CONFORMING TO THE REQUIREMENTS OF I.M.S.A. SPECIFICATIONS NO. 51-3 1984. BACKER ROD SHALL NOT BE USED IN THE INSTALLATION OF LOOP (EXCEPT PIECES LESS THAN 12" WHICH MAY BE PLACED OVER THE WIRE AT THE SAW CUT CORNERS TO HOLD THE WIRE. A 1/4" LAYER OF SEALANT SHALL BE PLACED IN THE SAW CUT BEFORE PLACEMENT OF THE WIRE AND THEN THE WIRE SHALL BE ENCAPSULATED WITH SEALANT, HOT-MELT RUBBERIZED ASPHALT LOOP DETECTOR SEALANT MANUFACTURED BY CRAFCO SHALL BE AN ACCEPTABLE SEALANT ALTERNATE.
9. COVER ENTIRE SIGNAL HEADS WHEN NECESSARY WITH BURLAP CLOTH OR BAGS AS REQUIRED BY SECTION 712.31 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (EDITION 1994).
10. ALL WIRE ON THIS PROJECT TO BE COPPER.
11. BEFORE ANY CONDUIT CAN BE TRENCHED, BORED, DRILLED, OR PUSHED UNDER ROADWAY, THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES.
12. ALL LOOP LEAD IN CABLES SHALL BE TAGGED AT CABINET TO IDENTIFY EACH CABLE BY PHASE AND LOOP NUMBER.
13. THE CONTRACTOR IS HEREBY ADVISED THAT THE INTERSECTION SIGNALS SHALL NOT BE TURNED ON UNTIL THE SIGNAL IS COMPLETELY INSTALLED. INCLUDING FULLY ACTUATED OPERATION (INCLUDING ALL LOOPS AND PUSH BUTTON WIRING IS COMPLETE AND OPERATIONAL).
14. FLASHING OPERATION IS NOT CONSIDERED THE BEGINNING OF THE FIELD TESTING PERIOD.
15. ANCHOR BOLTS WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
16. ALL WORK ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT NATIONAL ELECTRIC CODE, AND THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS.
17. LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SPLICE CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS. THE CONTRACTOR SHALL MEET WITH THE CITY SIGNAL OPERATIONS PERSONNEL IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
18. THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN ENERGIZED ELECTRICAL CIRCUITS AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
19. THE CONTRACTOR SHALL BORE, DRILL OR PUSH WHEN CROSSING EXISTING PAVEMENT, CURB AND GUTTER, DRIVEWAYS FOR SIDE STREET CROSSINGS. BEFORE CONDUIT CAN BE BORED, DRILLED OR PUSHED THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL LOCATE AND EXPOSE GAS LINES WHICH CROSS ANY PROPOSED BORES. THESE EXCAVATIONS SHALL REMAIN OPEN UNTIL AFTER THE BORE IS COMPLETE. CONTRACTOR SHALL REMOVE AND REPLACE IN KIND ANY SIDEWALK OR PAVEMENT REQUIRED TO EXPOSE SUCH LINES.
20. SPLICING OF COMMUNICATION CABLE WILL NOT BE PERMITTED IN PULL BOXES. SPLICING OF COMMUNICATION CABLE (CONNECTIONS) WILL BE PERMITTED ONLY AT SPLICE CABINETS OR CONTROLLER CABINETS.
21. THE CONTRACTOR SHALL NOTIFY THE TRAFFIC ENGINEERING OPERATIONS (ED TOLEDO 857-8000) TWO WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON SIGNALS, LIGHTING, AND POWER SERVICES TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL ASSIST THE CONTRACTOR IN FIELD LOCATION OF EQUIPMENT, COLOR CODING OF WIRING, AND MUST BE PRESENT WHEN SIGNALS AND LIGHTING ARE SHUT-OFF OR TURNED-ON.
22. THE CONTRACTOR SHALL NOTIFY PUBLIC SERVICE COMPANY 30 DAYS IN ADVANCE OF ANTICIPATED POWER SERVICE CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WITH PUBLIC SERVICE COMPANY TO ESTABLISH ELECTRICAL SERVICE FOR SIGNALS IN THE CITY'S NAME.
23. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNING AND DELIVER TO THE COUNTY YARDS WHEN TRAFFIC SIGNALS ARE PUT INTO OPERATION.
24. LIVE UNUSED CONDUCTORS WILL NOT BE ALLOWED AT MASTARM POLES AND PEDESTAL POLES. ALL SUCH UNUSED CONDUCTORS SHALL BE DISCONNECTED AT THE LARGE PULL BOX ADJACENT TO THE POLE.
25. "ALL OR NONE" BIDS BY SIGNAL EQUIPMENT MANUFACTURERS WILL NOT BE ALLOWED. MANUFACTURERS (AS A MINIMUM) SHALL PREPARE SEPARATE BIDS FOR TWO GROUPS OF EQUIPMENT AS FOLLOWS:
    A. TRAFFIC SIGNAL CONTROL EQUIPMENT SUCH AS CONTROLLERS, CONTROL CABINETS, MONITORS, DETECTORS, TELEMETRY, MODEMS, SYSTEM MASTER, HARNESSES, AND FIELD ASSISTANCE DURING INSTALLATION.
    B. SIGNAL HARDWARE EQUIPMENT SUCH AS SIGNAL HEADS, PEDESTRIAN SIGNALS, PEDESTRIAN PUSH BUTTONS, BACKPLATES AND ASSOCIATED FILLINGS.
26. IF TRENCH WIDTHS LESS THAN 12" ARE PROPOSED BY THE CONTRACTOR, APPROPRIATE COMPACTION METHODS SHALL BE USED DURING BACKFILL TO PREVENT LATENT TRENCH FAILURES. THE CONTRACTOR SHALL USE GROUT OR LEAN FILL AS APPROVED BY THE PROJECT MANAGER IN LIEU OF EARTH BACKFILL.
27. FOR CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATION CABLES. THE REQUIREMENT FOR A SINGLE CONDUCTOR BARE COPPER WIRE #8 AWG MAY BE WAIVED WHERE PERMITTED BY THE NATIONAL ELECTRIC CODE.
28. ALL RIGID ELECTRICAL CONDUIT (REC.) SHALL CONSIST OF HIGH-IMPACT, POLYVINYL CHLORIDE (PVC) PIPE, SCHEDULE 40, DESIGNATION PVC 2110, CONFORMING TO THE REQUIREMENTS OF ASTM D1785.
29. LOOP LEAD-IN CABLE SHALL BE TWO CONDUCTOR NO. 16 AWG SHIELDED CABLE, CROSS-LINKED POLYETHYLENE INSULATION (BELDEN #8719, SECTOR SYSTEM DSI-1602, OR AS APPROVED BY THE PROJECT MANAGER). THE LEAD-IN CABLE SHALL CONSIST OF A CONTINUOUS (UNSPLICED) LINK FROM THE PULLBOX TO THE CONTROLLER CABINET.
30. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONTACTS AND PERMITS, ETC., WITH THE PUBLIC SERVICE COMPANY OF NEW MEXICO (PNM) AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL CONTACT PNM TO VERIFY THE SERVICE LOCATION.
31. ANY ASPHALT PAVEMENT, CONCRETE SIDEWALK, CONCRETE CURB & GUTTER, DRAINAGE STRUCTURES, EXISTING UTILITIES OR LANDSCAPED AREA WHICH IS NOT SPECIFICALLY DESIGNATED FOR REMOVAL AND IS DAMAGED BY CONSTRUCTION OF THIS PROJECT WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE AND NO SEPERATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

### SIGNAL CONTROL EQUIPMENT

THIS PROJECT IS AN EXTENSION OF AN EXISTING SIGNAL SYSTEM, THEREFORE, THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:

A. ECONOLITE ASC-2/2100 CONTROLLERS WIRED IN EIGHT PHASE "P" CABINETS WITH RACK MOUNTED DETECTORS. ALL CONTROL CABINETS SHALL BE WIRED FOR SYSTEM OPERATION. FIELD FUSE OUTPUT SHALL NOT BE INCLUDED. RACK MOUNTED SYSTEM DETECTORS SHALL BE PROVIDED AS SHOWN ON THE PLANS.

B. SPLICE CABINETS SHALL BE HOFFMAN A-302008 LP WITH BACK PANEL A-30P20 OR APPROVED EQUAL. LOW VOLTAGE SPLICE BARS SHALL BE 50 UNITS TO THE FOOT WITH EACH SPLICE BAR CAPABLE OF HANDLING 25 PAIR CABLE. SPLICE BARS SHALL BE BELL SYSTEMS PART #66B83-50 OR APPROVED EQUAL.

C. AN ECONOLITE REPRESENTATIVE SHALL ASSIST THE CONTRACTOR IN THE FIELD AS WORK PROGRESSES TO COMPLETE THE INSTALLATION OF TRAFFIC SIGNAL CONTROL EQUIPMENT INCLUDING SIGNAL INTERCONNECT AND TELEMETRY, AND SHALL ASSIST THE CITY IN SETTING UP AND TURNING ON EQUIPMENT. THERE WILL BE NO DIRECT MEASUREMENT OR PAYMENT THEREFORE. COST SHALL BE INCIDENTAL TO ITEM 714000 - TRAFFIC ACTUATED CONTROLLER.

D. EACH SIGNAL CONTROL CABINET SHALL BE WIRED WITH "3M" OPTICOM OR APPROVED EQUAL 562 RACK MOUNTED PHASE SELECTORS. OPTICAL DETECTORS SHALL BE MOUNTED ON SIGNAL USING OPTICOM CABLE TO PROVIDE PREEMPTION ON EACH MAJOR PHASE (PHASES 2,4,6 AND 8) AS SHOWN ON PLANS. THERE WILL BE NO DIRECT MEASUREMENT OR PAYMENT THEREFORE. COST SHALL BE INCIDENTAL TO ITEM 714000 - TRAFFIC ACTUATED CONTROLLER.

E. A 3M REPRESENTATIVE SHALL ASSIST THE CONTRACTOR IN THE FIELD AS WORK PROGRESSES TO COMPLETE THE INSTALLATION OF ALL "OPTICOM" EQUIPMENT AND SHALL ASSIST THE CITY IN SETTING UP AND TURNING ON EQUIPMENT. THERE WILL BE NO DIRECT MEASUREMENT OR PAYMENT THEREFORE. COST SHALL BE INCIDENTAL TO ITEM 714000 - TRAFFIC ACTUATED CONTROLLER.

LEGEND

| PROPOSED | EXISTING | ITEM |
|---|---|---|
| ■ | □ | PULL BOX |
| ● | ○ | SIGNAL POLE |
| ■ | □ | SERVICE POLE |
| C | C | CONTROLLER CABINET |
| SC | SC | SPLICE CABINET |
| — — — | —o—o— | CONDUIT RUN |
| | | LOOP DETECTOR |
| | | TRAFFIC SIGNAL PEDESTAL POLE |
| | | CONDUIT RUN NUMBER |
| | | POLE WITH MASTARM ,TRAFFIC SIGNAL AND BACKPLATE |
| | | COMBINATION POLE WITH LUMINAIRE AS INDICATED |
| | | PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED) |
| | | PEDESTRIAN SIGNALS (MOUNTED TO SIDE OF POLE WHERE INDICATED) |

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
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| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
PHASE I
COUNTY OF BERNALILLO

TRAFFIC SIGNAL QUANTITIES AND GENERAL NOTES

Time: 14:56:56
Date: 4/9/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\SBB-6-1

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 6-1

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 6-2 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

## SIGNAL HEADS

12" R Y G — 1A, 3A, 2A, 4A

12" R Y ⇦ ⇧ ⇨ G — 1B, 2B, 3B, 4B

12" R Y G ⇦ ⇧ ⇨ — 1, 2, 3, 4,

12" R Y G — 1C — 2C, 5A, 7A

P1, P2, P3, P4 P5, P6

## SIGNAL PHASING




## PEDESTRIAN PUSH BUTTON DESIGNATION SIGNS

PPB 1, 3, COA 12-1LR
PPB 2, 4, COA 12-1L
PPB 5,6, COA 12-1R

## FLASH CONDITION

RED BALL - 1, 1A, 1B, 1C, 2, 2A, 2B, 2C, 3, 3A, 3B, 4, 4A, 4B, 5A, 7A

## INITIALIZATION

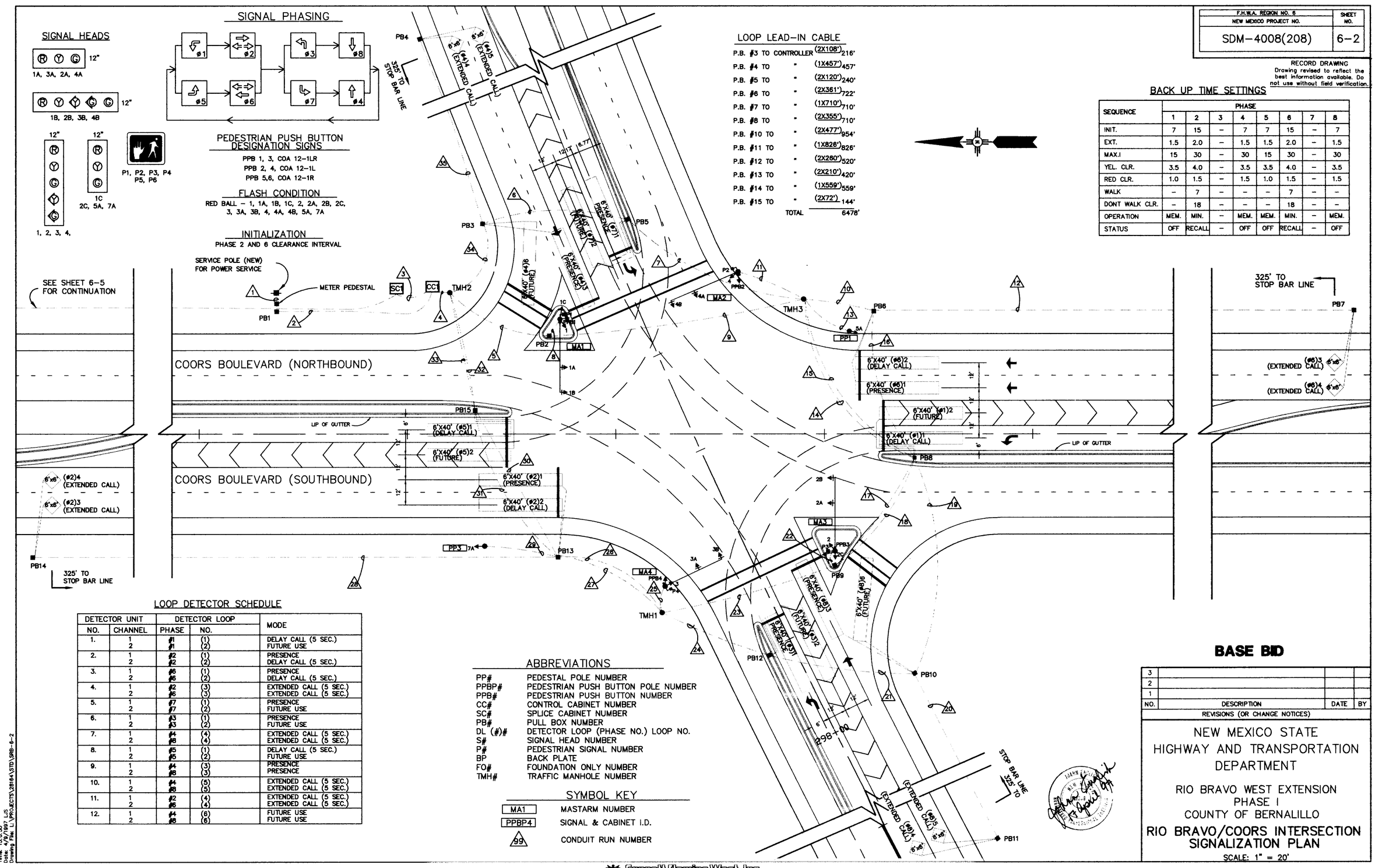
PHASE 2 AND 6 CLEARANCE INTERVAL

## LOOP LEAD-IN CABLE

| | | | |
|---|---|---|---|
| P.B. #3 TO CONTROLLER | | (2X108') | 216' |
| P.B. #4 TO | " | (1X457') | 457' |
| P.B. #5 TO | " | (2X120') | 240' |
| P.B. #6 TO | " | (2X361') | 722' |
| P.B. #7 TO | " | (1X710') | 710' |
| P.B. #8 TO | " | (2X355') | 710' |
| P.B. #10 TO | " | (2X477') | 954' |
| P.B. #11 TO | " | (1X826') | 826' |
| P.B. #12 TO | " | (2X260') | 520' |
| P.B. #13 TO | " | (2X210') | 420' |
| P.B. #14 TO | " | (1X559') | 559' |
| P.B. #15 TO | " | (2X72') | 144' |
| | TOTAL | | 6478' |

## BACK UP TIME SETTINGS

| SEQUENCE | PHASE | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| INIT. | 7 | 15 | – | 7 | 7 | 15 | – | 7 |
| EXT. | 1.5 | 2.0 | – | 1.5 | 1.5 | 2.0 | – | 1.5 |
| MAX.I | 15 | 30 | – | 30 | 15 | 30 | – | 30 |
| YEL. CLR. | 3.5 | 4.0 | – | 3.5 | 3.5 | 4.0 | – | 3.5 |
| RED CLR. | 1.0 | 1.5 | – | 1.5 | 1.0 | 1.5 | – | 1.5 |
| WALK | – | 7 | – | – | – | 7 | – | – |
| DONT WALK CLR. | – | 18 | – | – | – | 18 | – | – |
| OPERATION | MEM. | MIN. | – | MEM. | MEM. | MIN. | – | MEM. |
| STATUS | OFF | RECALL | – | OFF | OFF | RECALL | – | OFF |




## LOOP DETECTOR SCHEDULE

| DETECTOR UNIT NO. | DETECTOR UNIT CHANNEL | DETECTOR LOOP PHASE | DETECTOR LOOP NO. | MODE |
|---|---|---|---|---|
| 1. | 1 | #1 | (1) | DELAY CALL (5 SEC.) |
| | 2 | #1 | (2) | FUTURE USE |
| 2. | 1 | #2 | (1) | PRESENCE |
| | 2 | #2 | (2) | DELAY CALL (5 SEC.) |
| 3. | 1 | #6 | (1) | PRESENCE |
| | 2 | #6 | (2) | DELAY CALL (5 SEC.) |
| 4. | 1 | #2 | (3) | EXTENDED CALL (5 SEC.) |
| | 2 | #6 | (3) | EXTENDED CALL (5 SEC.) |
| 5. | 1 | #7 | (1) | PRESENCE |
| | 2 | #7 | (2) | FUTURE USE |
| 6. | 1 | #3 | (1) | PRESENCE |
| | 2 | #3 | (2) | FUTURE USE |
| 7. | 1 | #4 | (4) | EXTENDED CALL (5 SEC.) |
| | 2 | #8 | (4) | EXTENDED CALL (5 SEC.) |
| 8. | 1 | #5 | (1) | DELAY CALL (5 SEC.) |
| | 2 | #5 | (2) | FUTURE USE |
| 9. | 1 | #4 | (3) | PRESENCE |
| | 2 | #8 | (3) | PRESENCE |
| 10. | 1 | #4 | (5) | EXTENDED CALL (5 SEC.) |
| | 2 | #8 | (5) | EXTENDED CALL (5 SEC.) |
| 11. | 1 | #2 | (4) | EXTENDED CALL (5 SEC.) |
| | 2 | #6 | (4) | EXTENDED CALL (5 SEC.) |
| 12. | 1 | #4 | (6) | FUTURE USE |
| | 2 | #8 | (6) | FUTURE USE |

## ABBREVIATIONS

| | |
|---|---|
| PP# | PEDESTAL POLE NUMBER |
| PPBP# | PEDESTRIAN PUSH BUTTON POLE NUMBER |
| PPB# | PEDESTRIAN PUSH BUTTON NUMBER |
| CC# | CONTROL CABINET NUMBER |
| SC# | SPLICE CABINET NUMBER |
| PB# | PULL BOX NUMBER |
| DL (#)# | DETECTOR LOOP (PHASE NO.) LOOP NO. |
| S# | SIGNAL HEAD NUMBER |
| P# | PEDESTRIAN SIGNAL NUMBER |
| BP | BACK PLATE |
| FO# | FOUNDATION ONLY NUMBER |
| TMH# | TRAFFIC MANHOLE NUMBER |

## SYMBOL KEY

| | |
|---|---|
| MA1 | MASTARM NUMBER |
| PPBP4 | SIGNAL & CABINET I.D. |
| 99 | CONDUIT RUN NUMBER |

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |
| | REVISIONS (OR CHANGE NOTICES) | | |

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
PHASE I
COUNTY OF BERNALILLO

# RIO BRAVO/COORS INTERSECTION SIGNALIZATION PLAN

SCALE: 1" = 20'

Time: 15:05:55
Date: 4/9/1997 LJS
Drawing File: L:\PROJECTS\26184\STD\SRB-6-2

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 6-2

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 6-3 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

## CONDUIT RUNS

| CONDUIT | LENGTH | SIZE | TYPE | REMARKS |
|---|---|---|---|---|
| 1 | 15' | 2" | R.E.C. | FROM SERVICE POINT TO PB1 |
| 2 | 86' | 2" | - | PB1 TO CC1 |
| 3 | 24' | 2" | - | SC1 TO CC1 |
| 4 | 14' | 3" | - | TMH2 TO CC1 |
| 5 | 58' | 3" | - | PB2 TO TMH2 |
| 6 | 75' | 2" | - | PB3 TO PB5 |
| 7 | 99' | 2" | - | TMH3 TO PB5 |
| 8 | 15' | 3" | - | PB2 TO MA1 |
| 9 | 130' | 3" | - | PB2 TO TMH3 |
| 11 | 41' | 3" | - | TMH3 TO MA2 |
| 12 | 331' | 3" | - | PB7 TO PB6 |
| 13 | 33' | 3" | - | TMH3 TO PP1 |
| 14 | 98' | 2" | - | PB8 TO TMH3 |
| 15 | 98' | 3" | - | PB8 TO TMH3 |
| 16 | 80' | 2" | - | PB8 TO PB6 |
| 17 | 70' | 3" | - | PB8 TO PB9 |
| 18 | 70' | 3" | - | PB8 TO PB9 |
| 19 | 108' | 2" | - | PB8 TO PB10 |
| 20 | 261' | 2" | - | PB11 TO PB10 |
| 21 | 77' | 2" | - | PB10 TO PB12 |
| 22 | 12' | 3" | - | PB9 TO MA3 |
| 23 | 92' | 3" | - | PB9 TO TMH1 |
| 24 | 61' | 2" | - | PB12 TO TMH1 |
| 25 | 18' | 3" | - | TMH1 TO MA4 |
| 26 | 62' | 3" | - | TMH1 TO PB13 |
| 27 | 62' | 3" | - | TMH1 TO PB13 |
| 28 | 331' | 2" | - | PB14 TO PB13 |
| 29 | 42' | 3" | - | PB13 TO PB3 |
| 30 | 86' | 3" | R.E.C. | PB13 TO PB15 |
| 31 | 86' | 3" | - | PB13 TO PB15 |
| 32 | 65' | 3" | - | PB15 TO TMH2 |
| 33 | 65' | 3" | - | PB15 TO TMH2 |
| 34 | 42' | 3" | - | PB3 TO TMH2 |
| 35 | 258' | 2" | - | PB4 TO PP3 |
| 36 | 14' | 3" | - | TMH2 TO CC1 |
| | 124' | 1" | - | LOOP LEAD-IN CONDUIT |

## CABLE RUNS

| CONDUIT | CONDUIT LENGTH (FT.) | NO. CONDUCTOR | CONDUCTOR | CONDUCTOR LENGTH (FT.) | AWG | TYPE | REMARKS |
|---|---|---|---|---|---|---|---|
| 1 | 15 | 3 | 1/C | 63 | 4 | | FOR SERVICE |
| 2 | 86 | 3 | 1/C | 216 | 4 | | FOR SERVICE |
| 3 | 24 | 2-12 PAIR COMM. CABLE | | 48 | | | |
| 4 | 14 | 4 | 20/C | 80 | 14 | MCC | |
| | 14 | 4 | 5/C | 80 | 14 | MCC | FOR P.P.B'S |
| | 14 | 1 | 1/C | 20 | 8 | THHN | |
| 5 | 58 | 2 | 20/C | 128 | 14 | MCC | |
| | 58 | 1 | 5/C | 64 | 14 | MCC | FOR P.P.B'S |
| | 58 | 1 | 1/C | 64 | 8 | THHN | |
| 6 | | 7 LOOP LEAD-INS | | | | | |
| 7 | | 5 LOOP LEAD-INS | | | | | |
| 8 | 15 | 2 | 20/C | 42 | 14 | MCC | |
| | 15 | 1 | 5/C | 21 | 14 | MCC | FOR P.P.B'S |
| | 15 | 1 | 1/C | 21 | 8 | THHN | |
| 9 | 130 | 2 | 20/C | 272 | 14 | MCC | |
| | 130 | 1 | 5/C | 136 | 14 | MCC | FOR P.P.B'S |
| | 130 | 1 | 1/C | 136 | 8 | THHN | |
| 10 | | 5 LOOP LEAD-INS | | | | | |
| 11 | 41 | 2 | 20/C | 94 | 14 | MCC | |
| | 41 | 1 | 5/C | 47 | 10 | MCC | FOR P.P.B'S |
| | 41 | 1 | 1/C | 47 | 8 | THHN | |
| 12 | | 1 LOOP LEAD-IN | | | | | |
| 13 | 33 | 1 | 20/C | 39 | 14 | MCC | |
| | 33 | 1 | 1/C | 39 | 8 | THHN | |
| 14 | 98 | 2 | 20/C | 208 | 14 | MCC | |
| | 98 | 1 | 5/C | 104 | 10 | MCC | FOR P.P.B'S |
| | 98 | 1 | 1/C | 104 | 8 | THHN | |
| 15 | 98 | 1 | 1/C | 104 | 8 | THHN | FUTURE USE |
| 16 | | 2 LOOP LEAD-INS | | | | | |
| 17 | 66 | 1 | 1/C | 72 | 8 | THHN | FUTURE USE |
| 18 | 66 | 1 | 1/C | 72 | 8 | THHN | FUTURE USE |
| 19 | | FUTURE USE | | | | | |
| 20 | | 1 LOOP LEAD-IN | | | | | |
| 21 | | 3 LOOP LEAD-INS | | | | | |
| 22 | 12 | 2 | 20/C | 36 | 14 | MCC | |
| | 12 | 1 | 5/C | 18 | 10 | MCC | FOR P.P.B'S |
| | 12 | 1 | 1/C | 18 | 8 | THHN | |
| 23 | 92 | 2 | 20/C | 196 | 14 | MCC | |
| | 92 | 2 | 5/C | 196 | 14 | MCC | FOR P.P.B'S |
| | 92 | 1 | 1/C | 98 | 8 | THHN | |

## CABLE RUNS

| CONDUIT | CONDUIT LENGTH (FT.) | NO. CONDUCTOR | CONDUCTOR | CONDUCTOR LENGTH (FT.) | AWG | TYPE | REMARKS |
|---|---|---|---|---|---|---|---|
| 24 | | 5 LOOP LEAD-INS | | | | | |
| 25 | 18 | 2 | 20/C | 48 | 14 | MCC | |
| | 18 | 1 | 5/C | 24 | 14 | MCC | FOR P.P.B'S |
| | 18 | 1 | 1/C | 24 | 8 | THHN | |
| 26 | 62 | 2 | 20/C | 136 | 14 | MCC | |
| | 62 | 2 | 5/C | 136 | 14 | MCC | FOR P.P.B'S |
| | 62 | 1 | 1/C | 68 | 8 | THHN | |
| 27 | | 5 LOOP LEAD-INS | | | | | |
| 28 | | 1 LOOP LEAD-IN | | | | | |
| 29 | 42 | 1 | 20/C | 48 | 14 | MCC | |
| | 42 | 1 | 1/C | 48 | 8 | THHN | |
| 30 | 81 | 1 | 1/C | 87 | 8 | FUTURE USE | |
| 31 | | 8 LOOP LEAD-INS | | | | | |
| 32 | 86 | 2 | 20/C | 184 | 14 | MCC | |
| | 86 | 1 | 5/C | 92 | 14 | MCC | FOR P.P.B'S |
| | 86 | 1 | 1/C | 92 | 8 | THHN | |
| 33 | | 10LOOP LEAD-INS | | | | | |
| 34 | | 5 LOOP LEAD-INS | | | | | |
| 35 | | 1 LOOP LEAD-IN | | | | | |
| 36 | | 20 LOOP LEAD-INS | | | | | |

## FUNCTION CHART

| COND. | BASE COLOR | TRACER | (RING 1) FUNCTION | FIELD CONNECTION | (RING 2) FUNCTION | FIELD CONNECTION |
|---|---|---|---|---|---|---|
| 1 | BLACK | - | SPARE | - | SPARE | - |
| 2 | WHITE | - | SPARE | - | SPARE | - |
| 3 | RED | - | ø1 RED | - | ø5 RED | - |
| 4 | GREEN | - | ø1 GREEN | 1B,3 LT. GR. ARROW | ø5 GREEN | 2B,4 LT. GR. ARROW |
| 5 | ORANGE | - | ø1 YELLOW | 1B,3 LT. YEL. ARROW | ø5 YELLOW | 2B,4 LT. YEL. ARROW |
| 6 | BLUE | - | ø1 WALK | - | - | - |
| 7 | WHITE | BLACK | ø1 DON'T WALK | - | - | - |
| 8 | RED | BLACK | ø2 RED | 2A,2B,4,7A RED | ø6 RED | 1A,1B,3,5A RED |
| 9 | GREEN | BLACK | ø2 GREEN | 2A,2B,4,7A GREEN | ø6 GREEN | 1A,1B,3,5A GREEN |
| 10 | ORANGE | BLACK | ø2 YELLOW | 2A,2B,4,7A YELLOW | ø6 YELLOW | 1A,1B,3,5A YELLOW |
| 11 | BLUE | BLACK | ø2 WALK | P3,P4,P6 WALK | ø6 WALK | P1,P2,P5 WALK |
| 12 | BLACK | WHITE | ø2 DON'T WALK | P3,P4,P6 DON'T WALK | ø6 DON'T WALK | P1,P2,P5 DON'T WALK |
| 13 | RED | WHITE | ø3 RED | - | ø7 RED | - |
| 14 | GREEN | WHITE | ø3 GREEN | - | ø7 GREEN | - |
| 15 | BLUE | WHITE | ø3 YELLOW | - | ø7 YELLOW | - |
| 16 | BLACK | RED | ø4 RED | 2,1C,3A,3B RED | ø8 RED | 1,2C,4A,4B RED |
| 17 | WHITE | RED | ø4 GREEN | 2,1C,3A,3B, GREEN | ø8 GREEN | 1,2C,4A,4B GREEN |
| 18 | ORANGE | RED | ø4 YELLOW | 2,1C,3A,3B, YELLOW | ø8 YELLOW | 1,2C,4A,4B, YELLOW |
| 19 | BLUE | RED | ø4 WALK | - | ø8 WALK | - |
| 20 | RED | GREEN | ø4 DON'T WALK | - | ø8 DON'T WALK | - |
| 21 | ORANGE | GREEN | SPARE | - | - | - |

THESE PHASES ARE BEING USED. 12/23/98

THESE PHASES ARE BEING USED. 12/23/98

NOTE - IDENTIFY CABLE ABOVE AS "115 VOLT" AND BELOW AS "PPB - LOW VOLT" AT EACH SPLICE POINT.

| | | | |
|---|---|---|---|
| 1 | BLACK | ø2 PED PPB 3,4,6 | ø6 PED PPB 1,2,5 |
| 2 | WHITE | P.P.B. COMMON | P.P.B. COMMON |
| 3 | RED | - - | - - |
| 4 | GREEN | - | - |
| 5 | ORANGE | - | - |

## FOUNDATION LOCATION DATA

| I.D. NO. | STA. | OFFSET |
|---|---|---|
| MA1 | 300+34.1 | 36.28'LT |
| MA2 | 300+21.3 | 51.07'RT |
| MA3 | 298+78.6 | 38.06'RT |
| MA4 | 298+98.3 | 42.70'LT |
| PP1 | 299+72.88 | 88.56'RT |
| PP3 | 299+51.0 | 113.23'LT |
| CC1 | 300+71.8 | 102.81'LT |
| SC1 | 300+77.4 | 102.81'LT |

## SIGNAL POLES AND MASTARMS

| I.D. NO. | TYPE | FOUNDATION |
|---|---|---|
| MA1 | MASTARM - 35' | MASTARM |
| MA2 | MASTARM - 35' | MASTARM |
| MA3 | MASTARM - 35' | MASTARM |
| MA4 | MASTARM - 30' | MASTARM |
| PP1 | PED. POLE-15' | PEDESTAL |
| PP3 | PED. POLE-15' | PEDESTAL |

| CABLE | LENGTH | CONDUCTOR | AWG. | TYPE | REMARKS |
|---|---|---|---|---|---|
| MASTARM #1 | 55' | 7/C | 14 | MCC | SIGNAL 1B |
| | 40' | 5/C | 14 | MCC | SIGNAL 1A |
| | 15' | 7/C | 14 | MCC | SIGNAL1C |
| | 15' | 5/C | 14 | MCC | SIGNAL1 |
| | 12' | 5/C | 14 | MCC | P1 |
| | 5' | 5/C | 14 | MCC | PPB1 |
| MASTARM #2 | 55' | 7/C | 14 | MCC | SIGNAL 4B |
| | 40' | 5/C | 14 | MCC | SIGNAL 4A |
| | 15' | 7/C | 14 | MCC | SIGNAL 4 |
| | 12' | 5/C | 14 | MCC | P2 |
| | 5' | 5/C | 14 | MCC | PPB2 |
| MASTARM #3 | 55' | 7/C | 14 | MCC | SIGNAL 2B |
| | 40' | 5/C | 14 | MCC | SIGNAL 2A |
| | 15' | 7/C | 14 | MCC | SIGNAL 2 |
| | 15' | 5/C | 14 | MCC | SIGNAL 2C |
| | 12' | 5/C | 14 | MCC | P3 |
| | 5' | 5/C | 14 | MCC | PPB3 |
| MASTARM #4 | 50' | 7/C | 14 | MCC | SIGNAL 3B |
| | 35' | 5/C | 14 | MCC | SIGNAL 3A |
| | 15' | 7/C | 14 | MCC | SIGNAL 3 |
| | 12' | 5/C | 14 | MCC | P4 |
| | 5' | 5/C | 14 | MCC | PPB4 |
| POLE #1 | 15' | 5/C | 14 | MCC | SIGNAL 5A |
| POLE #3 | 15' | 5/C | 14 | MCC | SIGNAL 7A |
| POLE #6 | 12' | 5/C | 14 | MCC | P6 |
| | 5' | 5/C | 14 | MCC | PPB6 |

## NOTES :

1. WRAP RING 2 CABLE AT EACH SPLICE POINT WITH COLORED ELECTRICAL TAPE. THE INDENTIFICATION MARKING SHALL BE PROVIDED ON EACH RING 2 CABLE AT EACH SPLICE BOX AND LOCATED 6" BACK FROM THE END.

**AS-BUILT**
**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
PHASE I
COUNTY OF BERNALILLO

# RIO BRAVO/COORS INTERSECTION TRAFFIC SIGNAL SHEET

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

Time: 15:20:43
Date: 5/4/99 BRS
Drawing File: L:\PROJECTS\28164\Asbuilts\Sns-6-3.dwg

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 6-3

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 6-4 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

SCALE: 1" = 20'

EXISTING RIO BRAVO BOULEVARD

EXISTING SIGNAL CONTROLLER TO BE REMOVED BY CONTRACTOR AND TRANSPORTED TO CITY OF ALBUQUERQUE YARDS.

EXISTING SIGNAL MASTARMS, SIGNAL HEADS AND POLES TO BE REMOVED BY CONTRACTOR AND TRANSPORTED TO CITY OF ALBUQUERQUE YARDS. (PINO YARDS-CONTACT EDWARD TOLEDO 857-8000, 5501 PINO ROAD N.E. ALBUQ. N.M.) EXISTING FOUNDATIONS TO BE DISPOSED OF BY THE CONTRACTOR.

EXISTING COORS BOULEVARD

EXISTING COORS BOULEVARD

EXISTING SHOPPING CENTER ENTRANCE

GUN CLUB LATERAL

24" CMP

POWER POLE

POWER POLE

POWER POLE

LIGHT POLE

LIGHT POLE

ELEC

MH

MH

MH

SIGN

SIGNS

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

EXISTING SIGNAL LOCATION LAYOUT

Time: 15:8:16
Date: 4/10/1997 LJS
Drawing File: L:\PROJECTS\2816A\STD\SMB-6-4

ENGR. FILE :

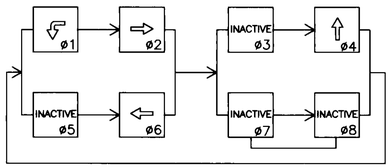
Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 6-4

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 6-5 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

## SIGNAL PHASING

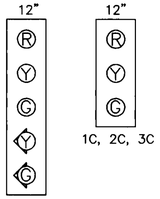


P1, P2, P3, P4

## SIGNAL HEADS

1A, 1B, 2B

2A, 3A




4A

1C, 2C, 3C

## PEDESTRIAN PUSH BUTTON DESIGNATION SIGNS

PPB 3 COA 12-1R
PPB 1, 2, 4, COA 12-1L

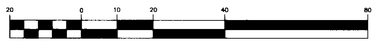
## FLASH CONDITION

RED BALL - 1A, 1B, 2A, 2B, 2C, 3A, 4A

## INITIALIZATION

PHASE 2 AND 6 CLEARANCE INTERVAL

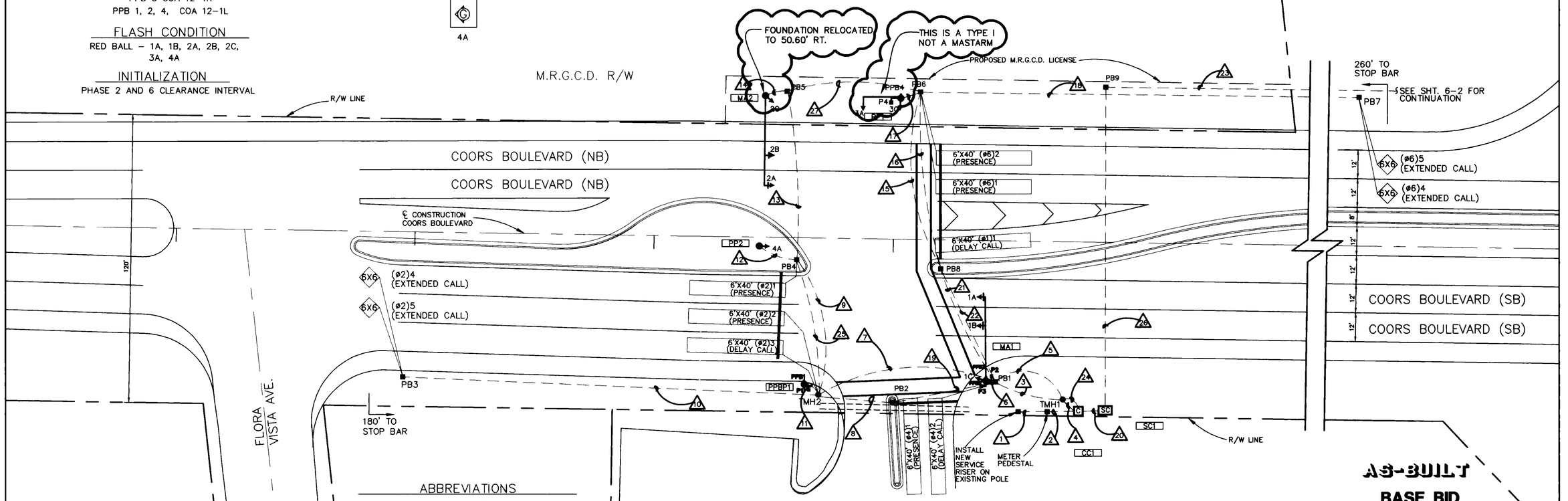
## GRAPHIC SCALE




( IN FEET )
1 inch = 20 ft

## BACK UP TIME SETTINGS

| SEQUENCE | PHASE | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| INIT. | 7 | 15 | – | 7 | – | 15 | – | – |
| EXT. | 1.5 | 2.0 | – | 1.5 | – | 2.0 | – | – |
| MAX.I | 15 | 30 | – | 30 | – | 30 | – | – |
| YEL. CLR. | 3.5 | 4.0 | – | 3.5 | – | 4.0 | – | – |
| RED CLR. | 1.0 | 1.5 | – | 1.5 | – | 1.5 | – | – |
| WALK | – | 7 | – | 7 | – | – | – | – |
| DONT WALK CLR. | – | 18 | – | 20 | – | – | – | – |
| OPERATION | MEM. | MIN. | – | MEM. | – | MIN. | – | – |
| STATUS | OFF | RECALL | – | OFF | – | RECALL | – | – |




## LOOP LEAD-IN CABLE

| | | | |
|---|---|---|---|
| P.B. #1 TO CONTROLLER | (2X50') | 100' |
| P.B. #2 TO " | (1X100') | 100' |
| P.B. #3 TO " | (1X316') | 316' |
| P.B. #4 TO " | (1X198') | 198' |
| TMH #2 TO " | (2X131') | 262' |
| P.B. #6 TO " | (1X188') | 376' |
| P.B. #7 TO " | (1X386') | 386' |
| P.B. #8 TO " | (1X108') | 108' |
| TOTAL | | 1846' |

## ABBREVIATIONS

| | |
|---|---|
| MA# | MASTARM NUMBER |
| PP# | PEDESTAL POLE NUMBER |
| PPBP# | PEDESTRIAN PUSH BUTTON POLE NUMBER |
| PPB# | PEDESTRIAN PUSH BUTTON NUMBER |
| CC# | CONTROL CABINET NUMBER |
| SC# | SPLICE CABINET NUMBER |
| PB# | PULL BOX NUMBER |
| DL (#)# | DETECTOR LOOP (PHASE NO.) LOOP NO. |
| S# | SIGNAL HEAD NUMBER |
| P# | PEDESTRIAN SIGNAL NUMBER |
| BP | BACK PLATE |
| FO# | FOUNDATION ONLY NUMBER |
| TMH# | TRAFFIC MANHOLE |

## SYMBOL KEY

PPBP4 — SIGNAL & CABINET I.D.

99 — CONDUIT RUN NUMBER

## LOOP DETECTOR SCHEDULE

| DETECTOR UNIT NO. | DETECTOR UNIT CHANNEL | LOOP | MODE |
|---|---|---|---|
| 1. | 1 | ø1(1) | DELAY CALL (5 SEC.) |
| | 2 | ø2(1) | PRESENCE |
| 2. | 1 | ø2(3) | DELAY CALL (5 SEC.) |
| | 2 | ø2(4) | EXTENDED CALL (3 SEC.) |
| 3. | 1 | ø6(1) | PRESENCE |
| | 2 | ø2(5) | EXTENDED CALL (3 SEC.) |
| 4. | 1 | ø6(4) | EXTENDED CALL (4 SEC.) |
| | 2 | ø4(1) | PRESENCE |
| 5. | 1 | ø2(2) | PRESENCE |
| | 2 | ø6(2) | PRESENCE |
| 6. | 1 | ø6(5) | EXTENDED CALL (4 SEC.) |
| | 2 | ø4(2) | DELAY CALL (5 SEC.) |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

**AS-BUILT**

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
PHASE I
COUNTY OF BERNALILLO

# SHOPPING CENTER & COORS BLVD. SIGNAL PLAN

Time: 15:44:39
Date: 5/4/1999 BRS
Drawing File: L:\PROJECTS\28164\Asbuilts\Sb-6-5.dwg

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 6-5

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 6-6 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

## CONDUIT RUNS

| CONDUIT | LENGTH | SIZE | TYPE | REMARKS |
|---|---|---|---|---|
| 1 | 18' | 2" | R.E.C. | POWER TO METER |
| 2 | 19' | 2" | " | METER TO CC1 |
| 3 | 36' | 3" | " | PB1 TO TMH1 |
| 4 | 15' | 2" | " | CC1 TO TMH1 |
| 5 | 36' | 2" | " | PB1 TO TMH1 |
| 6 | 10' | 3" | " | PB1 TO MA1 |
| 7 | 81' | 3" | " | PB1 TO TMH2 |
| 8 | 66' | 2" | " | PB2 TO TMH2 |
| 9 | 63' | 3" | " | TMH2 TO PB4 |
| 10 | 180' | 2" | " | TMH2 TO PB3 |
| 11 | 15' | 3" | " | TMH2 TO PPBP1 |
| 12 | 22' | 3" | " | PB4 TO PP2 |
| 13 | 76' | 3" | " | PB4 TO PB5 |
| 14 | 16' | 3" | " | PB5 TO MA2 |
| 15 | 80' | 3" | " | PB6 TO PB8 |
| 16 | 80' | 2" | " | PB6 TO PB8 |
| 17 | 16' | 3" | R.E.C. | PB6 TO PP1 |
| 18 | 276' | 2" | " | PB6 TO PPB4 |
| 19 | 50' | 2" | " | PB2 TO PB1 |
| 20 | 16' | 2" | " | SC1 TO CC1 |
| 21 | 58' | 3" | " | PB8 TO PB1 |
| 22 | 58' | 2" | " | PB8 TO PB1 |
| 23 | 197' | 2" | " | PB9 TO SC1(SHT 6-2) |
| 24 | 15' | 3" | " | TMH1 TO CC1 |
| 25 | 63' | 2" | " | PB4 TO TMH2 |
| 26 | 140' | 2" | " | PB9 TO SC1 |
| 27 | 62' | 3" | " | PB5 TO PB6 |
| | 68' | 1" | " | LOOP LEAD-IN CONDUIT |

## SIGNAL POLES AND MASTARMS

| I.D. NO. | TYPE | FOUNDATION |
|---|---|---|
| MA1 | MASTARM - 35' | MASTARM |
| MA2 | MASTARM - 35' | MASTARM |
| PP1 | PED. POLE | PEDESTAL |
| PP2 | PED. POLE | PEDESTAL |
| PPBP1 | PED. POLE | PEDESTAL |

## FUNCTION CHART

| CONDUCTOR | BASE COLOR | TRACER | (RING 1) FUNCTION | FIELD CONNECTION | (RING 2) FUNCTION | FIELD CONNECTION |
|---|---|---|---|---|---|---|
| 1 | BLACK | - | SPARE | - | SPARE | - |
| 2 | WHITE | - | SPARE | - | SPARE | - |
| 3 | RED | - | ø1 RED | - | ø5 RED | - |
| 4 | GREEN | - | ø1 GREEN | 2A,4A LT. GR. ARROW | ø5 GREEN | - |
| 5 | ORANGE | - | ø1 YELLOW | 2A,4A LT. YEL. ARROW | ø5 YELLOW | - |
| 6 | BLUE | - | ø1 WALK | - | - | - |
| 7 | WHITE | BLACK | ø1 DON'T WALK | - | - | - |
| 8 | RED | BLACK | ø2 RED | 1A,1B,1C RED | ø6 RED | 2A,2B, 4A RED |
| 9 | GREEN | BLACK | ø2 GREEN | 1A,1B,1C GREEN | ø6 GREEN | 2A,2B,4A GREEN |
| 10 | ORANGE | BLACK | ø2 YELLOW | 1A,1B,1C YELLOW | ø6 YELLOW | 2A,2B,4A YELLOW |
| 11 | BLUE | BLACK | ø2 WALK | P1,P3 WALK | ø6 WALK | - |
| 12 | BLACK | WHITE | ø2 DON'T WALK | P1,P3 Don't Walk | ø6 DON'T WALK | - |
| 13 | RED | WHITE | ø3 RED | - | ø7 RED | - |
| 14 | GREEN | WHITE | ø3 GREEN | - | ø7 GREEN | - |
| 15 | BLUE | WHITE | ø3 YELLOW | - | ø7 YELLOW | - |
| 16 | BLACK | RED | ø4 RED | 2C,3A RED | ø8 RED | FUTURE |
| 17 | WHITE | RED | ø4 GREEN | 2C,3A GREEN | ø8 GREEN | FUTURE |
| 18 | ORANGE | RED | ø4 YELLOW | 2C,3A YELLOW | ø8 YELLOW | FUTURE |
| 19 | BLUE | RED | ø4 WALK | P2,P4 WALK | ø8 WALK | - |
| 20 | RED | GREEN | ø4 DON'T WALK | P2,P4 DONT WALK | ø8 DON'T WALK | - |
| 21 | ORANGE | GREEN | SPARE | - | - | - |

NOTE - IDENTIFY CABLE ABOVE AS "115 VOLT" AND BELOW AS "PPB - LOW VOLT" AT EACH SPLICE POINT.

| | | | | | |
|---|---|---|---|---|---|
| 1 | BLACK | ø2 PED | PPB 1,3 | ø4 | PPB 2,4 |
| 2 | WHITE | P.P.B. COMMON | | P.P.B. COMMON | |
| 3 | RED | - | - | - | - |
| 4 | GREEN | - | | - | |
| 5 | ORANGE | - | | - | |

## CABLE RUNS

| CONDUIT | CONDUIT LENGTH (FT.) | NO. CONDUCTOR | CONDUCTOR LENGTH (FT.) | AWG | TYPE | REMARKS |
|---|---|---|---|---|---|---|
| 1 | 18 | 3 | 1/C 72 | 6 | | POWER TO METER |
| 2 | 19 | 3 | 1/C 75 | 6 | | METER TO CC1 |
| 3 | 36 | 1 | 20/C 42 | 14 | MCC | |
| | 36 | 1 | 5/C 42 | 14 | MCC | FOR P.P.B'S |
| | 36 | 1 | 1/C 42 | 8 | THHN | |
| 4 | 15' | 10LOOP LEAD-INS | | | | |
| 5 | 26 | 10LOOP LEAD-INS | | | | |
| 6 | 10 | 1 | 20/C 16 | 14 | MCC | |
| | 10 | 1 | 5/C 16 | 14 | MCC | FOR P.P.B'S |
| | 10 | 1 | 1/C 16 | 8 | THHN | |
| 7 | 81 | 2 | 20/C 174 | 14 | MCC | |
| | 81 | 1 | 5/C 87 | 14 | MCC | FOR P.P.B'S |
| | 81 | 1 | 1/C 87 | 8 | THHN | |
| 8 | | 4 LOOP LEAD-INS | | | | |
| 9 | 63 | 1 | 20/C 69 | 14 | MCC | |
| | 63 | 1 | 1/C 69 | 8 | THHN | |
| 10 | | 1 LOOP LEAD-IN | | | | |
| 11 | 15 | 1 | 20/C 21 | 14 | MCC | |
| | 15 | 1 | 5/C 21 | 14 | MCC | FOR P.P.B'S |
| 12 | 22 | 1 | 20/C 28 | 14 | MCC | |
| | 22 | 1 | 1/C 28 | 8 | THHN | |
| 13 | 76 | 1 | 20/C 82 | 14 | MCC | |
| | 76 | 1 | 1/C 82 | 8 | THHN | |
| 14 | 16 | 1 | 20/C 22 | 14 | MCC | |
| | 16 | 1 | 1/C 22 | 8 | THHN | |
| 15 | 80 | 1 | 20/C 86 | 14 | MCC | |
| | 80 | 1 | 5/C 86 | 14 | MCC | FOR P.P.B'S |
| | 80 | 1 | 1/C 86 | 8 | THHN | |
| 16 | | 4 LOOP LEAD-INS | | | | |
| 17 | 16 | 1 | 20/C 22 | 14 | MCC | |
| | 16 | 1 | 5/C 22 | 14 | MCC | FOR P.P.B'S |
| | 16 | 1 | 1/C 22 | 8 | THHN | |
| 18 | | 1 LOOP LEAD-IN | | | | |
| 19 | | 5 LOOP LEAD-INS | | | | |
| 20 | 16 | 1-12 PAIR COMM. CABLE | 22 | | | |
| 21 | 58 | 1 | 20/C 64 | 14 | MCC | |
| | 58 | 1 | 5/C 64 | 14 | MCC | FOR P.P.B'S |
| | 58 | 1 | 1/C 64 | 8 | THHN | |
| 22 | | 4 LOOP LEAD-INS | | | | |
| 23 | 197 | 1-12 PAIR COMM. CABLE | 203 | | | |
| 24 | 15 | 1 | 20/C 21 | 14 | MCC | |
| | 15 | 1 | 5/C 21 | 14 | MCC | FOR P.P.B'S |
| | 15 | 1 | 1/C 21 | 8 | THHN | |
| 25 | | 1 LOOP LEAD-IN | | | | |
| 26 | 140 | 1-12 PAIR COMM. CABLE | 146 | | | |
| 27 | 62 | 1 | 1/C 68 | 8 | THHN | |

## FOUNDATION LOCATION DATA

| I.D. NO. | STA. | OFFSET |
|---|---|---|
| MA1 | 20+60.37 | 56.99' LT. |
| MA2 | 21+54.27 | ~~60.00~~ RT |
| PP1 | 20+97.71 | 60.36' RT |
| PP2 | 21+55.97 | 6.93' LT |
| PPBP1 | 21+36.37 | 61.25' LT |
| CC1 | 20+21.58 | 69.18' LT |
| SC1 | 19+99.74 | 68.55' LT |

RELOCATED TO 50.60' RT.
PER JOANN ENGLISH 10/16/98

| CABLE | LENGTH | CONDUCTOR | AWG. | TYPE | REMARKS |
|---|---|---|---|---|---|
| MASTARM #1 | 55' | 5/C | 14 | MCC | SIGNAL 1A |
| | 40' | 5/C | 14 | MCC | SIGNAL 1B |
| | 5' | 5/C | 14 | MCC | PPB2 |
| | 5' | 5/C | 14 | MCC | PPB3 |
| | 12' | 5/C | 14 | MCC | P2 |
| | 12' | 5/C | 14 | MCC | P3 |
| MASTARM #2 | 55' | 5/C | 14 | MCC | SIGNAL 2A |
| | 40' | 5/C | 14 | MCC | SIGNAL 2B |
| | 15' | 5/C | 14 | MCC | SIGNAL 2C |
| PP #1 | 45' | 5/C | 14 | MCC | SIGNAL 3A |
| | 12' | 5/C | 14 | MCC | P4 |
| | 5' | 5/C | 14 | MCC | PPB4 |
| PP #2 | 15' | 5/C | 14 | MCC | SIGNAL 4A |
| PPBP #1 | 12' | 5/C | 14 | MCC | P1 |
| | 5' | 5/C | 14 | MCC | PPBP1 |

## NOTES :

1. IDENTIFY CONDUCTORS LISTED BELOW AS "115 VOLTS".
2. WRAP RING 2 CABLE AT EACH SPLICE POINT WITH COLORED ELECTRICAL TAPE. THE INDENTIFICATION MARKING SHALL BE PROVIDED ON EACH RING 2 CABLE AT EACH SPLICE BOX AND LOCATED 6" BACK FROM THE END.
3. IDENTIFY CONDUCTORS LISTED BELOW AS "P.P.B. - LOW VOLTAGE" AT EACH SPLICE POINT. FIVE (5) CONDUCTOR CABLE SHALL BE 24 VOLTS AND USED FOR PUSH BUTTONS ONLY.
4. CONDUCTOR CABLE RUNS TO TRAFFIC SIGNALS, PEDESTRIAN SIGNALS, AND PEDESTRIAN PUSH BUTTONS SHALL BE SPLICED INTO THE MAIN CONDUCTORS AT THE NEAREST PULL BOX AND RUN WITHOUT ADDITIONAL SPLICES INTO EACH SIGNAL HEAD OR PUSH BUTTON ASSEMBLY.

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

**AS-BUILT**
**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | Station and offset revision. | 8/31/98 | DAS |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
PHASE I
COUNTY OF BERNALILLO

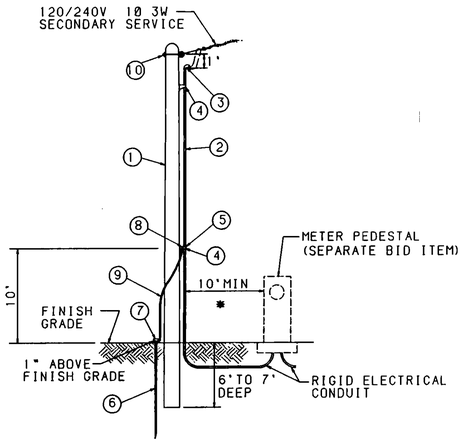
**SHOPPING CENTER & COORS BLVD.**
**TRAFFIC SIGNAL SHEET**

Time: 8:18:38
Date: 5/5/98 BRS
Drawing File: L:\PROJECTS\28164\Asbuilts\Sn-6-6.dwg

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 6-6




MATERIAL LIST

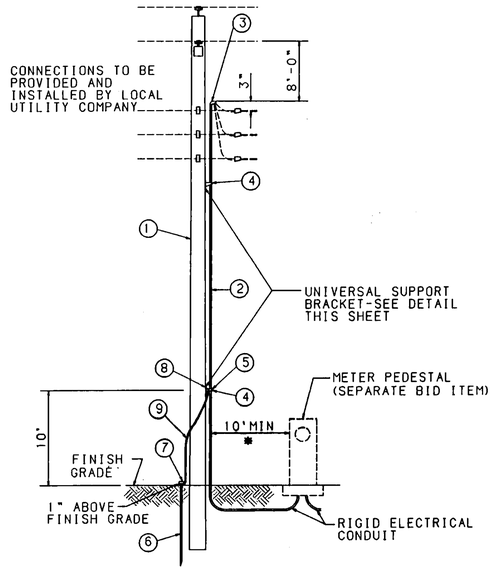
| | | |
|---|---|---|
| ① | 1 | 25' TREATED POLE |
| ② | 30' | 2" GALVANIZED CONDUIT |
| ③ | 1 | 2" WEATHER HEAD |
| ④ | 2 | UNIVERSAL SUPPORT BRACKET |
| ⑤ | 2 | 2" PIPE STRAP KIT |
| ⑥ | 1 | COPPERWELD 3/4"x10'-0" GROUND ROD |
| ⑦ | 1 | GROUND ROD CLAMP |
| ⑧ | 1 | GROUND LUG |
| ⑨ | 10' | #6 BARE COPPER GROUND WIRE |
| ⑩ | 1 | 5/8" EYE BOLT |
| | 40' | 1/C #2 THW BLACK |
| | 40' | 1/C #2 THW WHITE |
| | 40' | 1/C #2 THW RED |

## SERVICE POLE (SIGNAL)

*CONDUIT AND WIRE EXTENDING MORE THAN 10' FROM POLE WILL BE MEASURED AND PAID PER ACTUAL FOOTAGE USED.

## SIGNAL SERVICE NOTES

1. ALL SIGNAL SERVICE DETAILS, MATERIALS, & INSTALLATION SHALL CONFORM TO THE LOCAL POWER COMPANY REQUIREMENTS.
2. CONTACT LOCAL POWER COMPANY CUSTOMER SERVICES FOR POLE QUADRANT FOR RISERS.
3. ALL ABOVE GRADE CONDUIT SHALL BE GALVANIZED.
4. RISER BRACKET ASSEMBLY MUST BE GROUNDED PER LOCAL POWER COMPANY REQUIREMENTS.
5. CONDUIT AND WIRE EXTENDING MORE THAN 10' FROM POLE WILL BE MEASURED AND PAID PER ACTUAL FOOTAGE USED.
6. UNIVERSAL SUPPORT BRACKETS WILL BE CONSIDERED INCIDENTAL TO THE SERVICE RISER.
7. DRILLING HOLES IN EXISTING STEEL POLES FOR UNIVERSAL SUPPORT BRACKETS WILL NOT BE PERMITTED. BRACKETS SHALL BE MOUNTED ON STEEL POLES WITH STAINLESS STEEL BANDS.
8. PROVIDE ONE 50A, SINGLE POLE, 120V CIRCUIT FOR CONTROLLER SIGNALS.

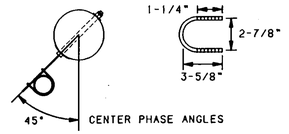


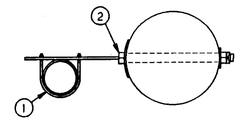

MATERIAL LIST

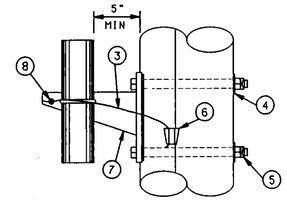
| | | |
|---|---|---|
| ① | 1 | EXISTING POLE |
| ② | 40' | 2" GALVANIZED CONDUIT |
| ③ | 1 | 2" WEATHER HEAD |
| ④ | 2 | UNIVERSAL SUPPORT BRACKET |
| ⑤ | 2 | 2" PIPE STRAP KIT |
| ⑥ | 1 | COPPERWELD 3/4"x10'-0" GROUND ROD |
| ⑦ | 1 | GROUND ROD CLAMP |
| ⑧ | 1 | GROUND LUG |
| ⑨ | 10' | #6 BARE COPPER GROUND WIRE |
| | 50' | 1/C #2 THW BLACK |
| | 50' | 1/C #2 THW WHITE |
| | 50' | 1/C #2 THW RED |

## SERVICE RISER (SIGNAL)

*CONDUIT AND WIRE EXTENDING MORE THAN 10' FROM POLE WILL BE MEASURED AND PAID PER ACTUAL FOOTAGE USED.




MATERIAL LIST

| | | |
|---|---|---|
| ① | 1 | U BOLT |
| ② | 2 | 5/8" MACHINE BOLTS |
| ③ | 3' | #4 SOL CU WIRE |
| ④ | 2 | 2-1/4" SQUARE WASHER |
| ⑤ | 2 | 5/8" MF LOCKNUT |
| ⑥ | 1 | LINE TAP |
| ⑦ | 1 | SUPPORT BRACKET |
| ⑧ | 1 | GROUNDING LUG |

UNIVERSAL SUPPORT BRACKET NOTES:

1. BRACKET TO BE FASTENED TO POLE WITH 5/8" GALVANIZED MACHINE BOLTS.
2. BRACKET SUITABLE FOR TWO 2" CONDUITS.
3. TWO HOLE STRAPS ATTACHED AT 30" INTERVALS WITH 2" LAG SCREWS MAY BE USED INSTEAD OF THE SUPPORT BRACKET WHEN THE CONDUIT IS 1" OR LESS. A MAXIMUM OF TWO CONDUITS MAY BE STRAPPED DIRECTLY TO THE POLE.

## UNIVERSAL SUPPORT BRACKET

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

AS-BUILT INFORMATION
CONTRACTOR DATE
STAKED BY DATE
INSPECTOR'S CHANGES BY DATE
FIELD VERIFICATION BY DATE
PLOTTED BY DATE
CONNECTED BY

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
NO. FIELD NOTES BY DATE

ENGINEER'S SEAL

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |
| | | DESIGN | DATE 1-92 |
| | | DESIGNED BY BHI/COA | DATE 1-92 |
| | | DRAWN BY BHI/COA | DATE 1-92 |
| | | CHECKED BY BHI/COA | |

**BASE BID**

CITY OF ALBUQUERQUE
PUBLIC WORKS
ENGINEERING

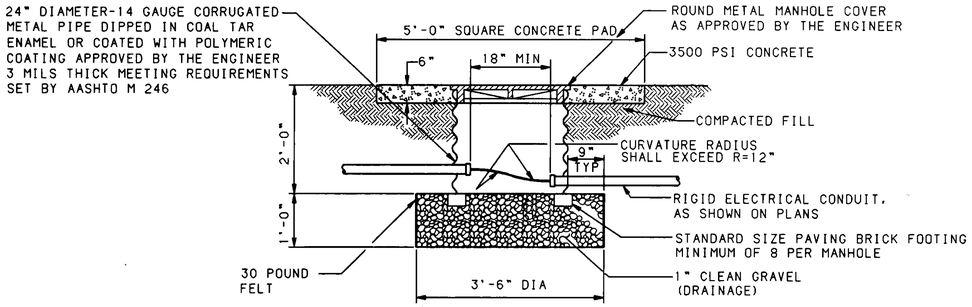
TITLE: TRAFFIC SIGNAL ELECTRICAL SERVICE DETAILS

| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|---|---|---|---|---|---|
| DRC CHAIRMAN | | | WATER | | |
| TRANSPORTATION | | | WASTE WATER | | |
| HYDROLOGY | | | TRAF. OPER. | | |
| | | | | | |

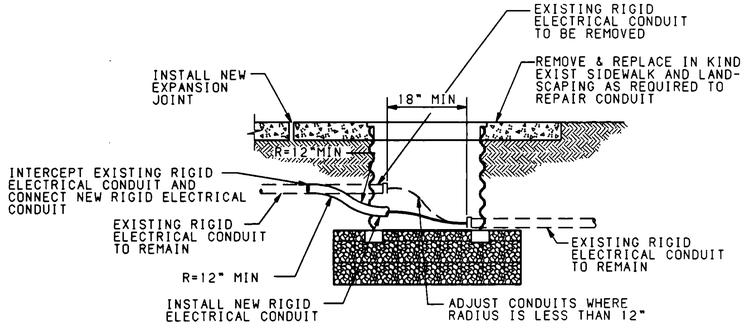
DRAWING NO. | MAP NO. | SHEET OF

TRAN4:CTTOVHD.WORKAREA.HOLDJSGSERV-COA.GRF

N.M. PROJECT NO. SDM-4008(208) SHEET 6-7



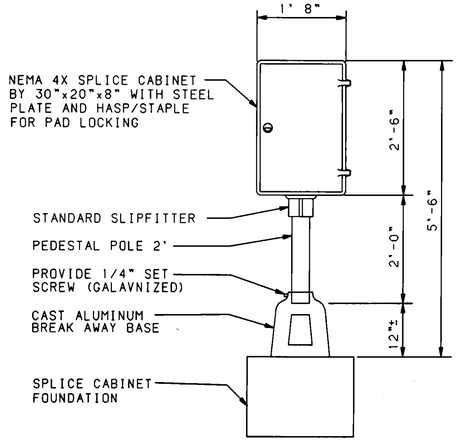

## TRAFFIC SIGNAL MANHOLE (TYPICAL)
## NEW CONDUIT INSTALLATION



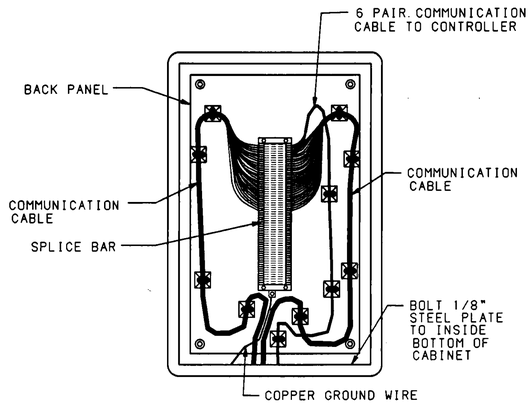

## TRAFFIC SIGNAL MANHOLE (TYPICAL)
## RETROFIT INSTALLATION

NOTES:

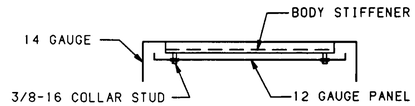
1. TRAFFIC SIGNAL MANHOLE TO BE CONSTRUCTED IN AREAS NOT NORMALLY ACCESSIBLE TO VEHICULAR TRAFFIC.




## TRAFFIC SIGNAL
## SPLICE CABINET DETAIL




## TRAFFIC SIGNAL
## SPLICE CABINET WIRING DETAIL




## SPLICE CABINET PANEL DETAIL

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |

CADD

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

TRAFFIC SIGNAL

TRAFFIC MANHOLE &
SPLICE CABINET DETAILS

CADD

2-94

TRAN4-CITOVHD.CITYJSHOTSMHSC.GRF

CITY PROJECT NO. _____ N.M. PROJECT NO. _____ SHEET TS-19B

N.M. PROJECT NO. SDM-4008(208) SHEET 6-8

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 6-9 |

RECORD DRAWING
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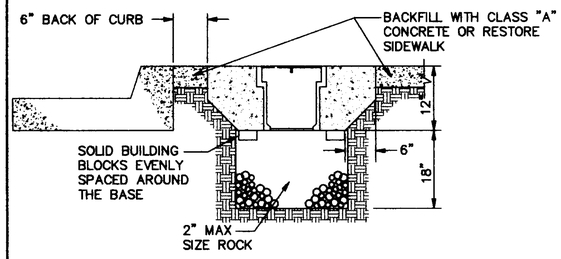
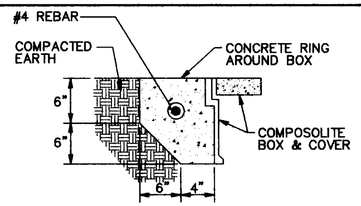
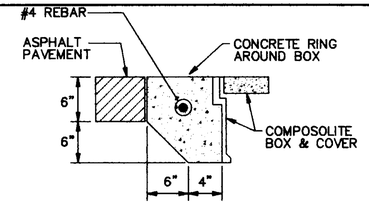



## TYPICAL PULL BOX INSTALLATION

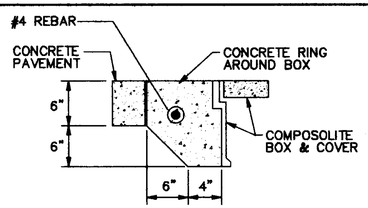
NOTE: SEE "CONCRETE COLLAR DETAILS"




IN COMPACTED EARTH



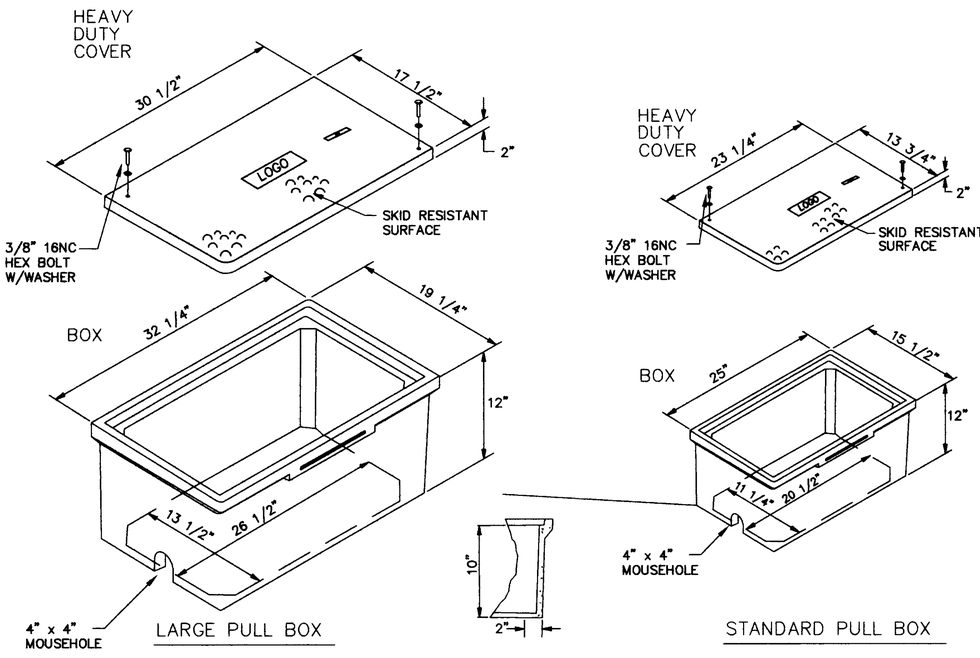

IN ASPHALT PAVEMENTS




IN CONCRETE PAVEMENTS

## CONCRETE COLLAR DETAIL

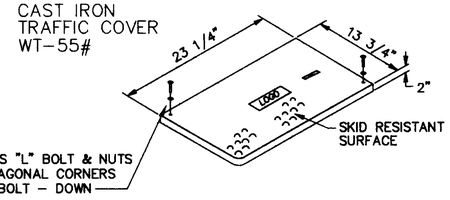
NOTE: THE CONCRETE COLLAR FOR THE PULL BOXES WILL BE PAID FOR UNDER THE CONTRACT ITEM FOR ELECTRICAL PULL BOX AND NO OTHER MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

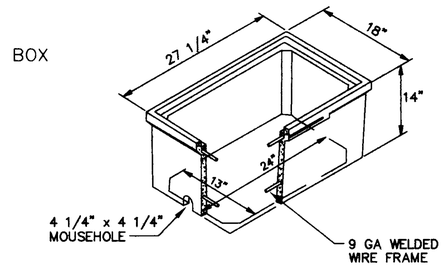



## PULL BOX DETAILS

### NOTES FOR HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVERS

1. MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES: COMPRESSIVE STRENGTH – 11,000 PSI, TENSILE STRENGTH – 1,700 PSI, FLEXURAL STRENGTH – 7,500 PSI.
2. ALL PULL BOX COVERS SHALL BE HEAVY DUTY REINFORCED POLYMER MORTAR, HAVING A SERVICE LOAD OF 22,568 LBS. OVER 10" SQUARE (225 PSI).
3. PULL BOX TYPE AND LOGO SHALL BE APPROVED BY THE PROJECT MANAGER.
4. THE DIMENSIONS OF THE PULL BOXES SHOWN ARE NOMINAL DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMENDATIONS. ALL DIMENSIONS SHALL BE VERIFIED BY THE PROJECT MANAGER.
5. ELECTRICAL PULL BOX (STANDARD) SHALL BE A HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVER MEASURING 13 3/4" X 23 1/4" X 2".



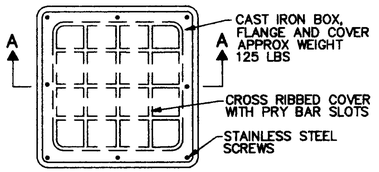

STANDARD PULL BOX

## CONCRETE PULL BOX

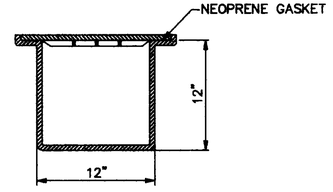
NOTES FOR CONCRETE ELECTRICAL PULL BOX AND COVERS

1. A #4 AWG BARE GROUNDING WIRE SHALL BE CLAMPED TO GROUNDING WIRE OR METAL CONDUIT AND BOLTED TO METAL COVER.

ACCEPTABLE VENDORS




PLAN




SECTION A–A

## METAL PULL BOX

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION DEPARTMENT

TRAFFIC DESIGN SECTION

PULL BOX DETAILS

11-96

Time: 8:47:58
Date: 4/18/1997 RKA
Drawing File: L:\PROJECTS\08184\STD\SRD-6-9

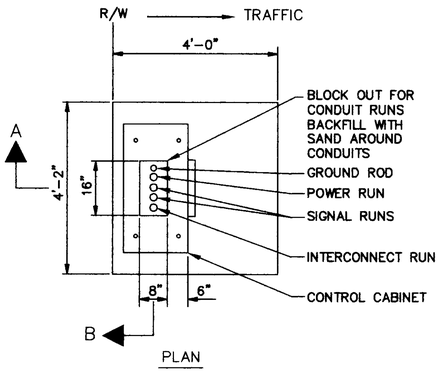
ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

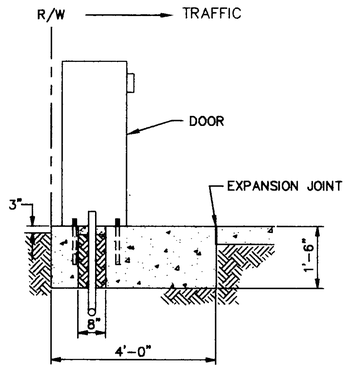
N.M. PROJECT NO. SDM-4008(208) SHEET 6-9

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 6-10 |

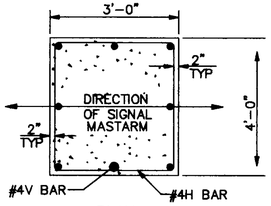
RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.



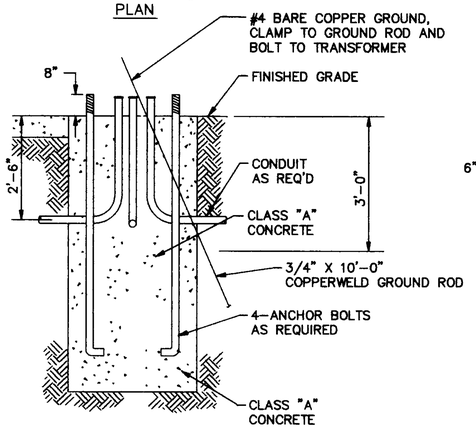

PLAN



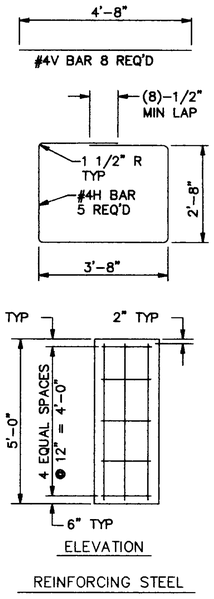

SECTION A




PLAN




MASTARM FOUNDATION (SPECIAL)

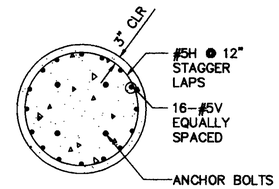



ELEVATION

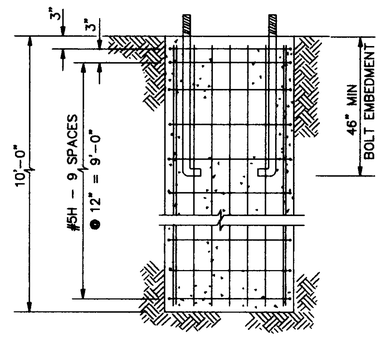
REINFORCING STEEL

## MASTARM FOUNDATION DETAILS–TYPE II & TYPE III STANDARDS

TYPES II & III – 15' TO 40' MASTARM LENGTH




PLAN

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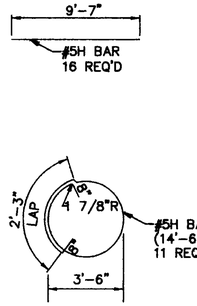
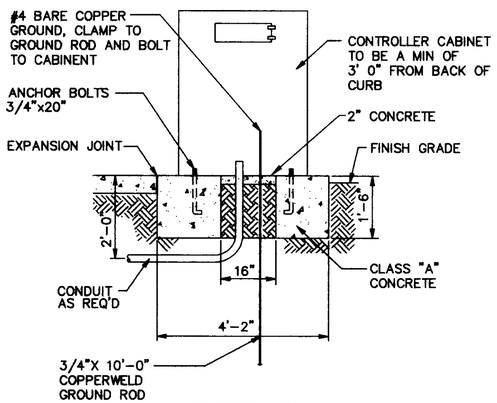



REINFORCING STEEL

## MASTARM FOUNDATION DETAILS–SPECIAL STANDARDS

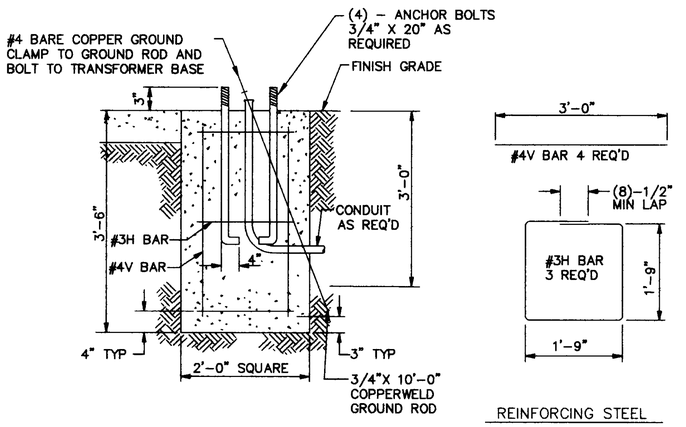
45' & 50' MASTARM LENGTH




SECTION B

## CONTROLLER FOUNDATION DETAIL

IN THE EVENT THE SUPPLIED CABINET WOULD OVERLAP THE SIDES OF ABOVE FOUNDATION, THE FOUNDATION SHALL BE INCREASED IN SIZE AS DIRECTED BY THE ENGINEER.







REINFORCING STEEL

## PEDESTAL FOUNDATION DETAILS–TYPE I STANDARD

### NOTES

1. ALTERNATE DESIGNS FOR STANDARD FOUNDATIONS TO BE SUBMITTED TO THE BRIDGE ENGINEER FOR APPROVAL.
2. ALL GROUND RODS SHALL BE 3/4" X 10'-0" . ALL SIGNAL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS AS SHOWN WHICH SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE FOUNDATION. NO PRICE OR PAYMENT SHALL BE MADE THEREFOR.
3. FINISHED GRADE FOR ALL FOUNDATIONS TO BE DETERMINED BY THE PROJECT ENGINEER. THE TOP OF STANDARD FOUNDATIONS SHALL BE FLUSH WITH ADJACENT SIDEWALK OR PAVED AREAS.

### ESTIMATED QUANTITIES

| FOUNDATION | CLASS"A"CONC CUBIC YARDS | REINFORCING BARS POUNDS |
|---|---|---|
| MASTARM – TYPES II & III (FOR 15 FOOT TO 40 FOOT MASTARM) | 2.22 | 72 |
| MASTARM – TYPES II & III (SPECIAL) (FOR 45 FOOT TO 50 FOOT MASTARM) | 4.65 | 327 |
| PEDESTAL POLE TYPE I | 0.52 | 17 |
| CONTROLLER CABINET TYPE P & R | 0.88 | -- |
| SPLICE CABINET | 0.52 | 17 |

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

TRAFFIC DESIGN SECTION

FOUNDATION DETAILS

9-96

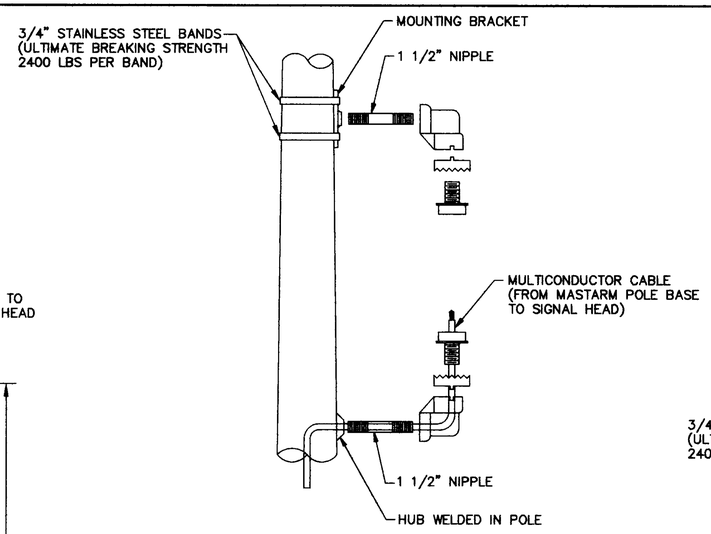
Time: 8:50:29
Date: 4/6/1997 RKA
Drawing File: L:\PROJECTS\28164\STD\SRB-6-10

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

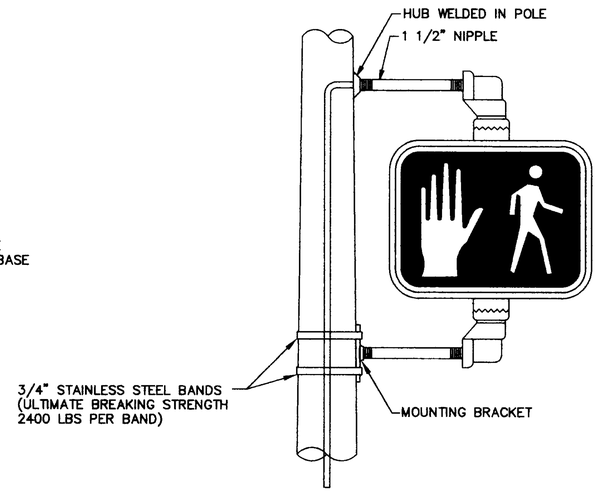
N.M. PROJECT NO. SDM-4008(208) SHEET 6-10

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 6-11 |

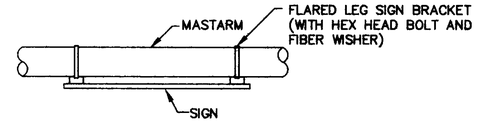



SIDE VIEW

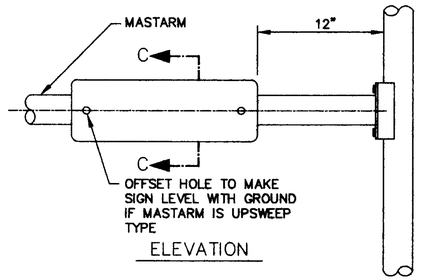
## MOUNTING DETAIL




## PEDESTRIAN SIGNAL




PLAN VIEW

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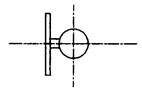
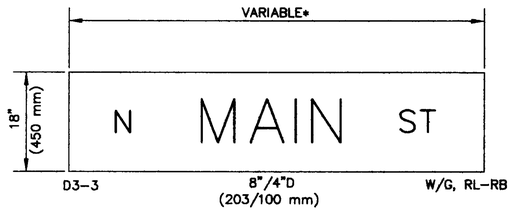


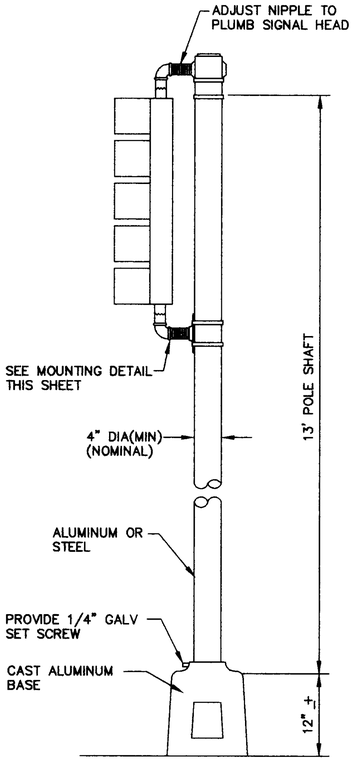
SECTION C-C

## STREET NAME SIGN DETAIL



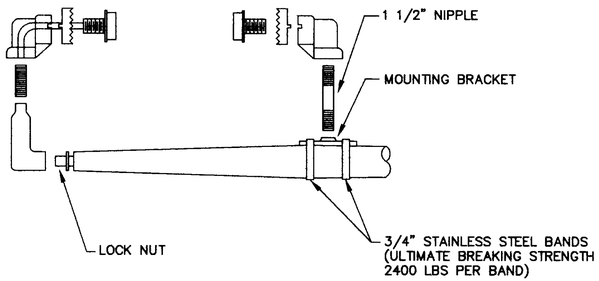

## 701000 ALUMINUM PANEL SIGN

* NOTE:
MAXIUM WIDTH OF SIGN SHALL BE 96 IN (2440 mm)
EACH SIGN SHALL BE SHOWN ON THE SIGN FACE DETAIL SHEET AND SIGN QUANTITIES.

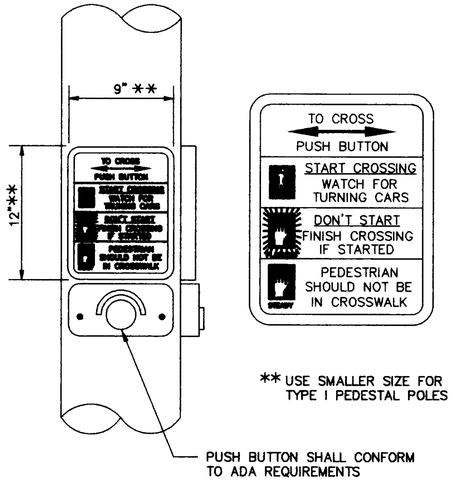



NOTE:
14' MINIMUM FROM BOTTOM OF BASE (ASSEMBLED LENGTH)

## TYPE I STANDARD POLE DETAILS




## HORIZONTAL MOUNTING DETAIL




** USE SMALLER SIZE FOR TYPE I PEDESTAL POLES

## PUSH BUTTON DETAIL

NOTE:

1. PEDESTRIAN ACTUATED CROSSING CONTROLS SHALL BE A MAXIMUM OF 42" ABOVE THE FINISHED PUBLIC SIDEWALK. A STABLE, FIRM, AND SLIP-RESISTANT AREA – 30" x 48" – SHALL BE PROVIDED TO ALLOW FOR A FOWARD OR A PARALLEL APPROACH TO THE CONTROLS. WHERE A PARALLEL IS PROVIDED, CONTROLS SHALL BE WITHIN 10" HORIZONTALLY OF AND CENTERED ON THE CLEAR GROUND SPACE.
2. ALL SIGNS TO BE MOUNTED ON STREET LIGHT POLES OR TRAFFIC SIGNAL POLES SHALL BE ATTACHED WITH 3/4" STAINLESS STEEL BANDS, BREAKING STRENGTH OF 2400 LBS PER BAND, AND ASSOCIATED HARDWARE (BAND-IT OR EQUAL). WORM GEAR CLAMPS ARE NOT ACCEPTABLE.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
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| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

TRAFFIC DESIGN SECTION

# TYPE I POLE AND PEDESTRIAN SIGNAL DETAILS

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

9-96

Time: 8:52:50
Date: 4/18/1997 RKA
Drawing File: L:\PROJECTS\28164\STD\SRB-6-11

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 6-11

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 6-12 |

RECORD DRAWING
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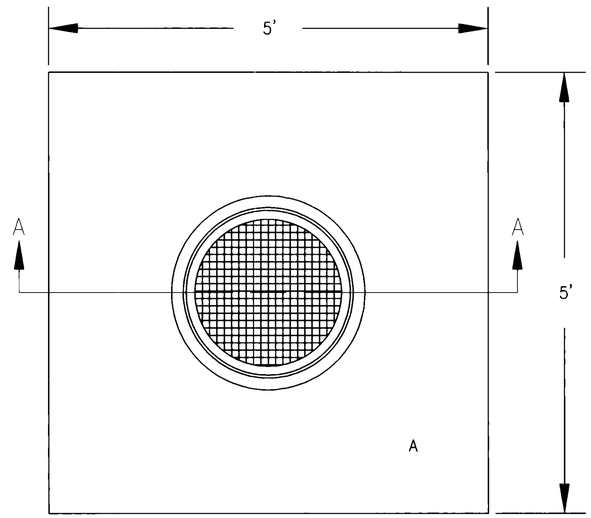



PLAN

## GENERAL NOTES:

1. TYPE I – 5' SQ. CONC. PAD REQUIRED.
2. TYPE II – CONC. PAD NOT REQUIRED.
3. TRAFFIC SIGNAL MANHOLE TO BE CONSTRUCTED IN AREAS OF NO VEHICULAR TRAFFIC.

## CONSTRUCTION NOTES:

A. 5' SQ. CONC. PAD TYPE I, TO BE CONSTRUCTED IF SPECIFIED.

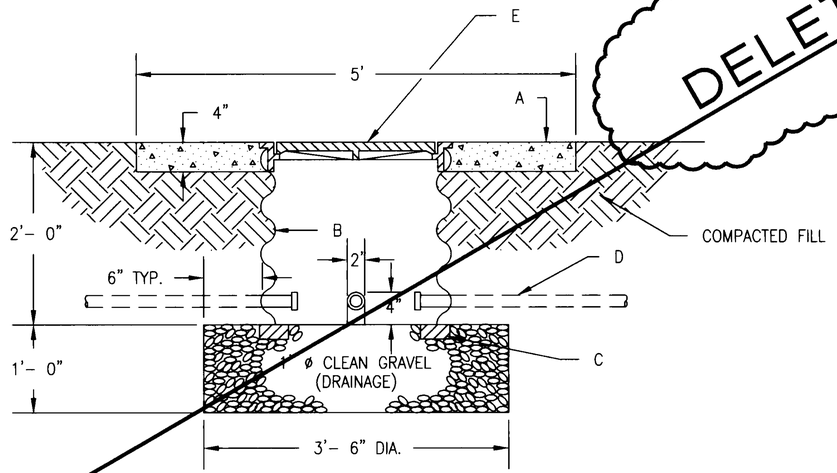
B. 24" I.D. 14 GA. C.M.P. DIPPED IN COAL TAR ENAMEL OR COATED WITH POLYMERIC COATING (WHEELING PLASTICOTE, MANUFACTURED BY WHEELING CORRUGATING CO., OR EQUAL). 3 MILS THICK MIN. MEETING REQUIREMENTS SET BY A.A.S.H.T.O. M 246.

C. STANDARD SIZE BRICK FOOTING MINIMUM OF 8 PER MANHOLE.

D. HEAVY DUTY CONDUIT, AS SHOWN ON PLANS.

E. ROUND M.H. COVER, NEENAH FOUNDARY CO. MODEL R-5900-E.

DELETE THIS SHEET




SECTION A-A

DELETE THIS SHEET.
ALL TRAFFIC MANHOLES WERE CONSTRUCTED PER DETAILS SHOWN ON SHEET 6-8.
ADD. #1 (37)

**AS-BUILT**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
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REVISIONS (OR CHANGE NOTICES)

REVISIONS

CITY OF ALBUQUERQUE

TRAFFIC
TRAFFIC SIGNAL MANHOLE
TYPE I & II

DWG. 2524

AUG. 1986

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

**TRAFFIC DESIGN SECTION**
**TRAFFIC SIGNAL MANHOLE**
**TYPE I & II**

Time: 8:34:15
Date: 5/5/1989 BRS
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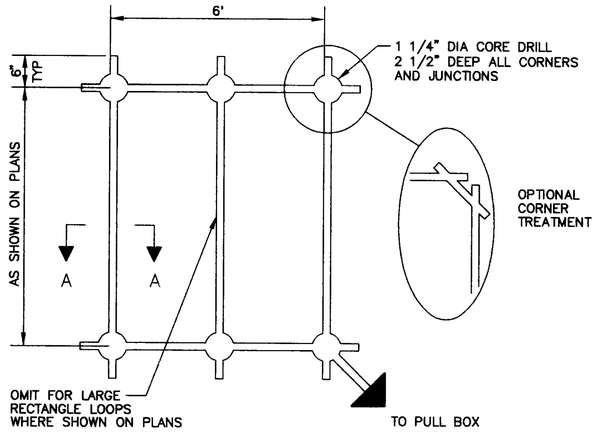
ENGR. FILE : _____

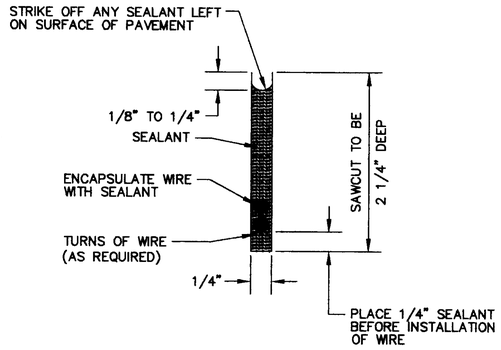
Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 6-12

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 6-13 |

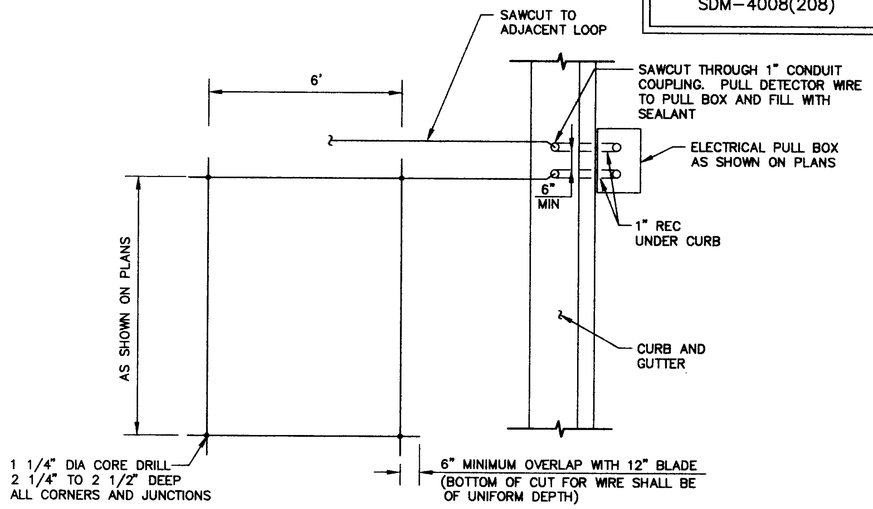



PLAN VIEW




SECTION A-A

## TYPICAL ROADWAY LOOP SAWCUT DETAIL

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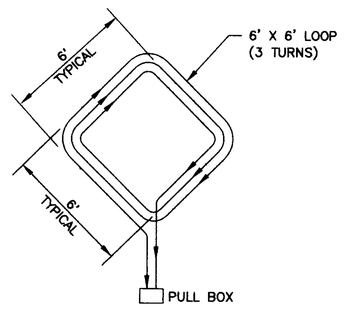
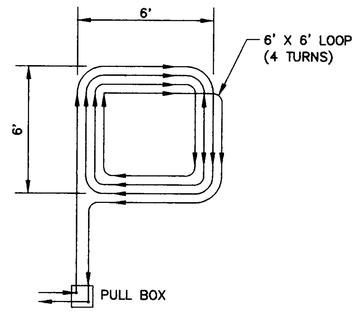
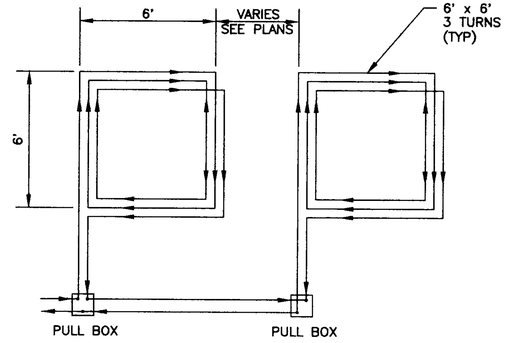


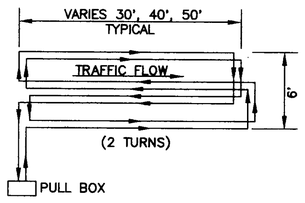

EXTEND CALL LOOP WIRING DETAIL



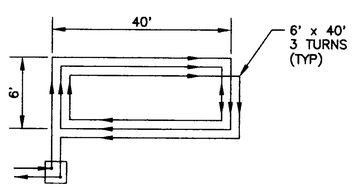

SYSTEM LOOP WIRING DETAIL




SERIES LOOP WIRING DETAIL




QUADRUPOLE LOOP WIRING DETAIL

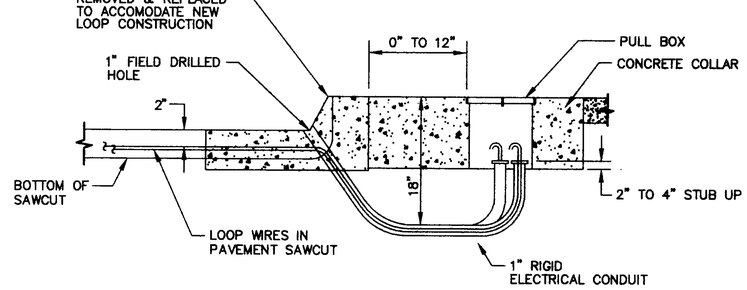



LARGE RECTANGULAR LOOP WIRING DETAIL

## TYPICAL LOOP WIRE PLACEMENT DETAILS

NOTES

1. WIRES MUST BE WOUND IN THE DIRECTION SHOWN.
2. QUADRUPOLE LOOPS SHALL HAVE 2 TURNS.
3. EXTEND CALL LOOPS SHALL HAVE 3 TURNS.
4. SYSTEM DETECTOR LOOPS SHALL HAVE 4 TURNS.
5. LARGE RECTANGLE LOOPS SHALL HAVE 3 TURNS.




SECTION

## LOOP WIRE TERMINATION DETAILS

### LOOP DETECTOR NOTES

1. ALL LOOP DETECTOR WIRE SHALL BE #14 AWG STRANDED COPPER WIRE WITH CROSS-LINKED POLYETHYLENE INSULATION (INDUSTRY TYPE XHHW) CONFORMING TO THE REQUIREMENTS OF IMSA SPECIFICATIONS #51-3 1984. BACKER ROD SHALL NOT BE USED IN THE INSTALLATION OF LOOP (EXCEPT PIECES LESS THAN 12" WHICH MAY BE PLACED OVER THE WIRE AT THE SAWCUT CORNERS TO HOLD THE WIRE. A 1/4" LAYER OF SEALANT SHALL BE PLACED IN THE SAWCUT BEFORE PLACEMENT OF THE WIRE AND THEN THE WIRE SHALL BE ENCAPSULATED WITH SEALANT. HOT-MELT RUBBERIZED ASPHALT LOOP DETECTOR SEALANT MANUFACTURED BY CRAFCO SHALL AN ACCEPTABLE SEALANT ALTERNATE.
2. ALL LOOP LEAD IN CABLES SHALL BE TAGGED AT CABINET TO IDENTIFY. EACH CABLE BY LOOP AND PHASE NUMBER.
3. GROUND LOOP LEAD IN CABLE SHIELDING IN CONTROL CABINET.
4. SEPARATE 1" RIGID ELECTRICAL CONDUITS ARE REQUIRED FOR EACH PAIR OF DETECTOR WIRES.

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

TRAFFIC DESIGN SECTION

# LOOP DETECTOR DETAILS

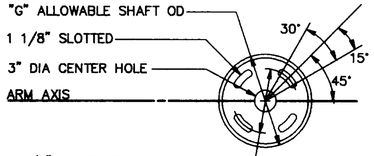
9-96

Time: 8:38:56
Date: 4/16/1997 PKA
Drawing File: L:\PROJECTS\28164\STD\SRB-6-7

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 6-13

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 6-14 |

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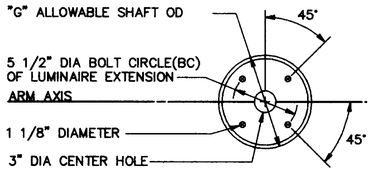


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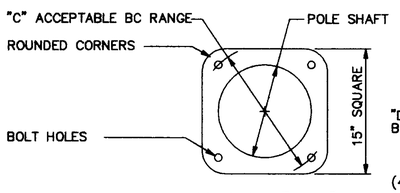


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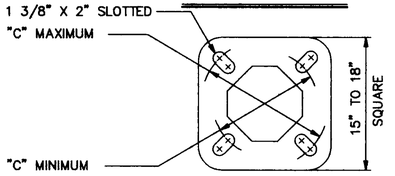


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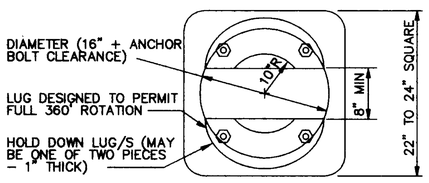


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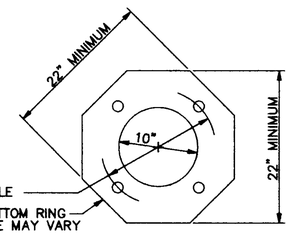


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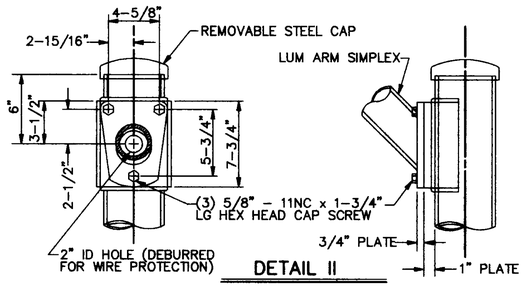
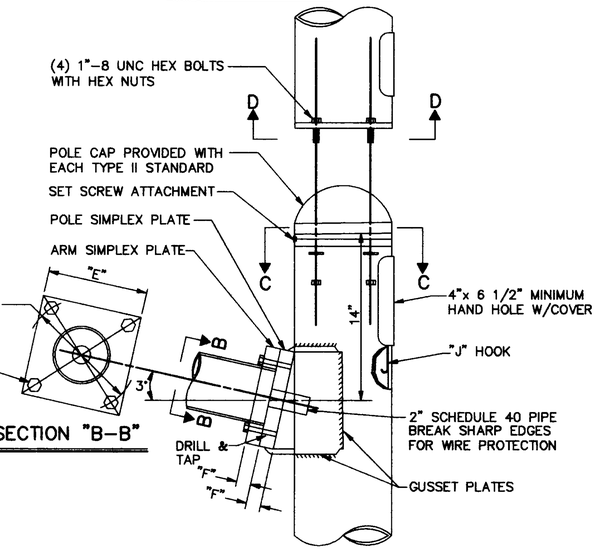



DETAIL II

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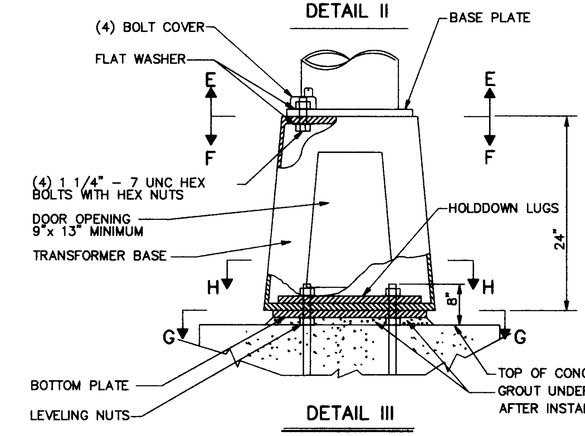


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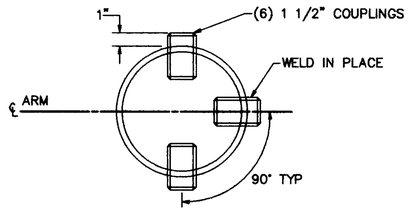


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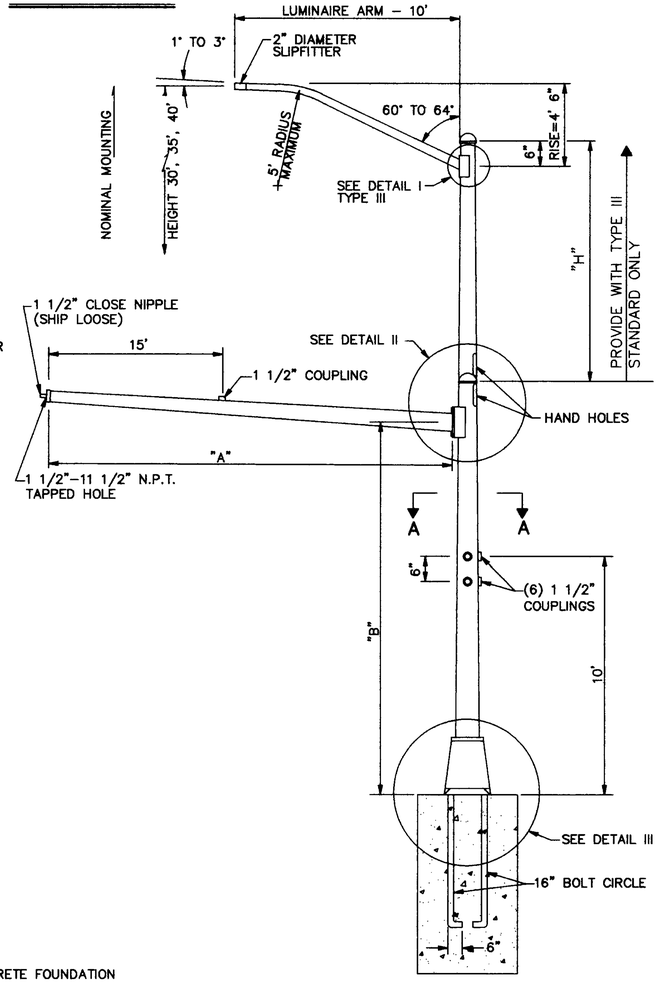


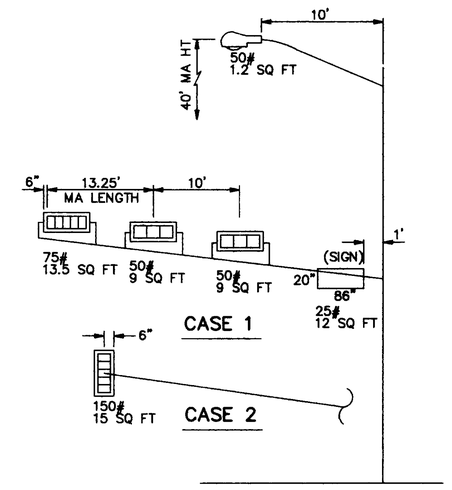

TYPE II & TYPE III STANDARD-DETAILS

| | "A" | "B" | "C" DIAMETER | "D" DIAMETER | "E" | "F" | ARM CONNECTING BOLT "d" | ANCHOR BOLTS | "G" |
|---|---|---|---|---|---|---|---|---|---|
| CLASS 1 | 20, 25, 30 | 18' | 14 1/2" TO 16 1/2" | 11" | 10 1/2" | 1" | 1" - 8 NC | 1 3/4" DIA x 54" x 6" | 8 1/2± 3/16" |
| CLASS 2 | 35, 40 | 17' | 14 1/2" TO 16 1/2" | 13" | 13" | 1 1/4" | 1 1/4" - 7 NC | 1 3/4" DIA x 54" x 6" | 9 1/2± 3/16" |
| CLASS 3 | 45, 50 | 17' | 14 1/2" TO 16 1/2" | 14" | 14" | 1 1/4" | 1 1/4" - 7 NC | 1 3/4" DIA x 54" x 6" | 9 1/2± 3/16" |

| TYPE III | |
|---|---|
| NOMINAL HEIGHT | "H" |
| 30' | 7' |
| 35' | 12' |
| 40' | 17' |

## NOTES:

1. SHAFTS AND ARMS SHALL BE STEEL OF 55,000 PSI MINIMUM YIELD AFTER FABRICATION. SHAFTS MINIMUM THCIKNESS OF #7 GAUGE(0.1793") AND SIGNAL ARMS MINIMUM THICKNESS OF #11 GAUGE (0.1196") LINEAR TAPER OF 0.14"/FT.
2. TRANSFORMER BASES SHALL BE STEEL OF 33,000 PSI MINIMUM YIELD AND A MINIMUM THICKNESS OF #7 GAUGE (0.1793").
3. BASE PLATES AND SIMPLEX PLATES SHALL BE PER ASTM A-36.
4. SHAFTS, ARMS, PLATES AND BASES SHALL BE HOT DIPPED GALVANIZED PER ASTM A-123.
5. HARDWARE AND ANCHOR BOLTS SHALL BE PER AASHTO 314 GR 55 HOT GR 55 HOT DIPPED GALVANIZED PER ASTM A-153.
6. STRUCTURAL DESIGN SHALL BE AS PER AASHTO STANDARD SPECIFICATIONS OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGN LUMINAIRES AND TRAFFIC SIGNALS (LATEST EDITION).
7. THE BOTTOM OF ALL TRANSFORMER BASES FOR TYPE II AND III STANDARDS SHALL BE DESIGNED TO PERMIT THE STANDARD TO BE ROTATED 360°. THE BASE SHALL BE SECURED BY HOLD DOWN LUGS. DETAILED SUBMITTAL TO BE APPROVED BY PROJECT MANAGER.
8. ON HORIZONTAL SIGNALS-ROTATE HEAD UP AS HIGH AS POSSIBLE.
9. THE CONTRACTOR SHALL INSTALL VIBRATION DAMPERS AS RECOMMENDED BY THE POLE MANUFACTURER.




## DESIGN LOADING

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

TRAFFIC DESIGN SECTION

# TYPE II AND TYPE III POLES STANDARDS

11-96

Time: 8:43:28
Date: 4/4/1997 RKA
Drawing File: L:\PROJECTS\26164\STD\SP8-6-8

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 6-14

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 7-1 |

## LIGHTING QUANTITIES (Estimated)

| NUMBER | ITEM | UNIT | USE BASE BID | USE BID ALT. 3 |
|---|---|---|---|---|
| 511000 | STRUCTURAL CONCRETE, CLASS A | CU. YD. | 77 | 4 |
| 540060 | REINFORCING BARS GRADE 60 | POUND | 6000 | 276 |
| 706010 | SERVICE POLE (LIGHTING) | EACH | | 1 |
| 706400 | LIGHTING CONTROL CABINET | EACH | | 3 |
| 707740 | TYPE V STANDARD, 40' | EACH | | ~~34~~ 4 * |
| 707752 | TYPE V STANDARD, 50' 2 ARMS | EACH | | ~~18~~ |
| 709020 | RIGID ELECTRICAL CONDUIT 2" (DIA.) | LIN. FT. | 7000 | |
| 710010 | ELECTRICAL PULL BOX (LARGE) | EACH | 5 | |
| 711102 | SINGLE CONDUCTOR 2 | LIN. FT. | | 13820 |
| 716040 | ROADWAY LUMINAIRE TYPE 400 S | EACH | | ~~54~~ 4 * |

* 4 WERE INSTALLED UNDER THIS PROJECT AT THE RIO BRAVO AND COORS BLVD. INTERSECTION.

GENERAL NOTES

1. ALL WIRE ON THIS PROJECT TO BE COPPER ONLY.
2. PLASTIC PROTECTION CAPS WERE ATTACHED WITH SILICONE ADHESIVE TO ALL BOLTS AND GROUND RODS IN FOUNDATIONS INSTALLED FOR FUTURE LIGHTING.

## CONDUIT AND CONDUCTOR REQUIREMENTS

BASE BID

CONDUIT LENGTH, SIZE, AND TYPE

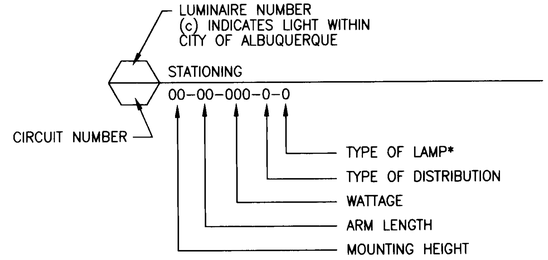
| RUN ID ⚠ | LENGTH (feet) | SIZE (inches) | # CONDUCTORS | SIZE CONDUCTORS |
|---|---|---|---|---|
| 2 | 125' | 2" | 2 | #2 |
| 3 | 90' | 2" | 2 | #2 |
| 4 | 175' | 2" | 2 | #2 |
| 5 | 240' | 2" | 2 | #2 |
| 6 | 175' | 2" | 2 | #2 |
| 7 | 175' | 2" | 2 | #2 |
| 8 | 200' | 2" | 2 | #2 |
| 9 | 75' | 2" | 2 | #2 |
| 10 | 90' | 2" | 2 | #2 |
| 11 | 75' | 2" | 2 | #2 |
| 12 | 90' | 2" | 2 | #2 |
| 13 | 125' | 2" | 2 | #2 |
| 14 | 79' | 2" | 2 | #2 |
| 15 | 45' | 2" | 2 | #2 |
| 16 | 15' | 2" | 2 | #2 |
| 17 | 75' | 2" | 2 | #2 |
| 18 | 78' | 2" | 4 | #2 |
| 19 | 75' | 2" | 4 | #2 |
| 20 | 63' | 2" | 2 | #2 |
| 21 | 31' | 2" | 2 | #2 |
| 22 | 125' | 2" | 2 | #2 |
| 23 | 20' | 2" | 2 | #2 |
| 24 | 50' | 2" | 2 | #2 |
| 25 | 250' | 2" | 2 | #2 |
| 26 | 50' | 2" | 2 | #2 |
| 27 | 300' | 2" | 2 | #2 |
| 28 | 100' | 2" | 2 | #2 |
| 29 | 250' | 2" | 2 | #2 |
| 30 | 240' | 2" | 2 | #2 |
| 31 | 240' | 2" | 2 | #2 |
| 32 | 240' | 2" | 2 | #2 |
| 33 | 225' | 2" | 2 | #2 |
| 34 | 207' | 2" | 2 | #2 |
| 35 | 240' | 2" | 2 | #2 |
| 36 | 175' | 2" | 2 | #2 |
| 37 | 125' | 2" | 2 | #2 |
| 38 | 175' | 2" | 2 | #2 |
| 39 | 140' | 2" | 2 | #2 |
| 40 | 125' | 2" | 2 | #2 |
| 41 | 100' | 2" | 2 | #2 |
| 42 | 175' | 2" | 2 | #2 |
| 43 | 100' | 2" | 2 | #2 |
| 44 | 75' | 2" | 2 | #2 |
| 45 | 75' | 2" | 2 | #2 |
| 46 | 50' | 2" | 2 | #2 |
| 47 | 100' | 2" | 2 | #2 |
| 48 | 100' | 2" | 2 | #2 |
| 49 | 50' | 2" | 2 | #2 |
| 50 | 75' | 2" | 2 | #2 |
| 51 | 190' | 2" | 2 | #2 |
| 52 | 86' | 2" | 2 | #2 |
| STUBOUTS | 60' | 2" | | |
| TOTAL BASE BID | 6499' | | | |

BID ALTERNATE 2

| | | | | |
|---|---|---|---|---|
| 1 | 180' | 2" | 2 | #2 |
| 2a | 10' | 2" | 2 | #2 |
| 8a | 100' | 2" | 2 | #2 |
| TOTAL BID ALTERNATE 2 | 290 | | | |

## LEGEND

| PROPOSED | EXISTING | ITEM |
|---|---|---|
| | | COMBINATION POLE WITH LUMINAIRE AS INDICATED |
| (000) | (000) | CONDUIT RUN (DISTANCE SHOWN) |
| ■ | □ | PULL BOX |
| ■ | □ | SERVICE POLE |
| C | C | CONTROLLER CABINET |
| 1 | 1 | CONDUIT RUN NUMBER |




LAMP TYPES *

H = MERCURY
M = METAL HALIDE
S = SODIUM

**AS-BUILT**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
PHASE I
COUNTY OF BERNALILLO

# ROADWAY LIGHTING GENERAL NOTES, LEGEND & ESTIMATED QUANTITIES

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

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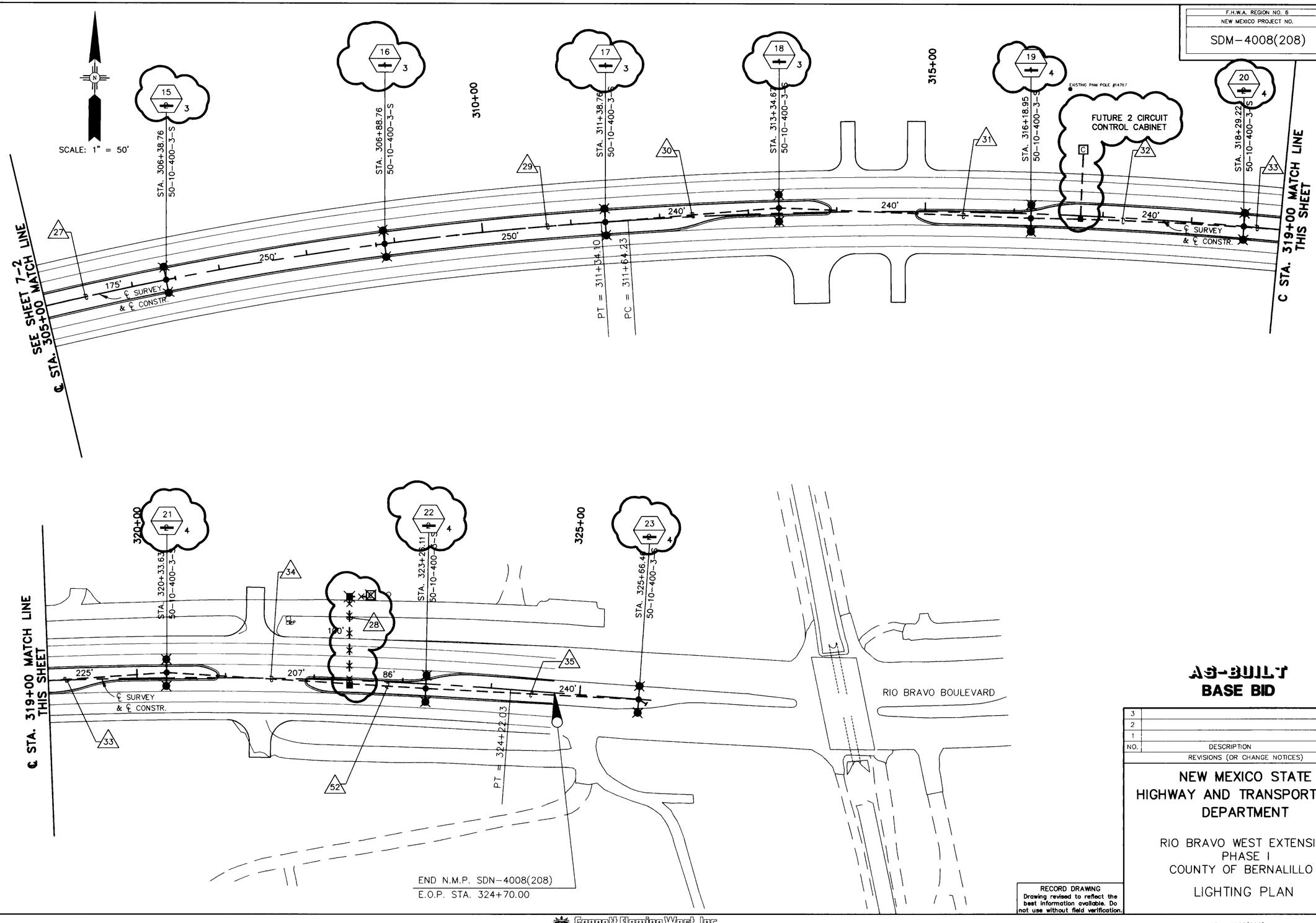
Date: 5/7/2008 BRS
Drawing File: L:\PROJECTS\28164\Asbuilts\Srb-7-1e.dwg

ENGR FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 7-1

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 7-3 |




**AS-BUILT**
**BASE BID**

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

**NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT**

RIO BRAVO WEST EXTENSION
PHASE I
COUNTY OF BERNALILLO

LIGHTING PLAN

**RECORD DRAWING**
Drawing revised to reflect the best information available. Do not use without field verification.

Time: 11:13:57
Date: 5/5/1998 BRS
Drawing File: L:\PROJECTS\28164\Asbuilts\Sht-7-3a.dwg

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 7-3

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 7-4 |

10+00

11+00

20+00

25+00

30+00

RIO BRAVO BOULEVARD

COORS BOULEVARD

COORS BLVD. WESTERLY R/W - BERNALILLO COUNTY
CITY OF ALBUQUERQUE

CITY OF ALBUQUERQUE
COORS BLVD. EASTERLY R/W - BERNALILLO COUNTY

℄ STA. 21+00 MATCH LINE THIS SHEET

STA. 12+81.10 40-10-400-3-S — 41(c) 2

STA. 13+70.87 40-10-400-3-S — 42(c) 2

STA. 14+61.10 40-10-400-3-S — 43(c) 2

STA. 297+77.35 40-10-400-3-S — 12 2

STA. 298+43.38 40-10-400-3-S — 27(c) 2

STA. 298+98.50 40-10-400-3-S — 24(c) 2

STA. 17+68.12 40-10-400-3-S — 44(c) 5

STA. 19+51.12 40-10-400-3-S — 46(c) 5

STA. 20+48.81 40-10-400-3-S — 49(c) 5

STA. 300+22.50 40-10-400-3-S — 26(c) 2

STA. 300+64.00 40-10-400-3-S — 25(c) 2

STA. 301+40.77 40-10-400-3-S — 28 2

STA. 8+61.35 40-10-400-3-S — 45(c) 5

SEE SHEET 7-2

LUMINAIRE BASES 46(C) AND 49(C) WERE MOVED ±18" WEST TO MISS THE GAS LINE. 10/26/98

10/26/98 PNM TO MOUNT LUMINAIRE TO THE EXISTING WOODEN POLE

STA. 22+44.38 40-10-400-3-S — 47(c) 5

DELETED

STA. 21+54.38 40-10-400-3-S — 50(c) 5

STA. 23+34.38 40-10-400-3-S — 48(c) 5

ADJUSTED 10' NORTH

℄ STA. 21+00 MATCH LINE THIS SHEET

SEPARATE PULL BOXES USED

** ~~PULL BOXES INSTALLED IN SIGNALIZATION.~~ SEE SHT. 6-1 THRU 6-15.

**AS-BUILT**
**BASE BID**

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
PHASE I
COUNTY OF BERNALILLO

# LIGHTING PLAN

Time: 15:7.50
Date: 5/5/1999 BRS
Drawing File: L:\PROJECTS\2B164\Aabuilts\Sib-7-4e.dwg

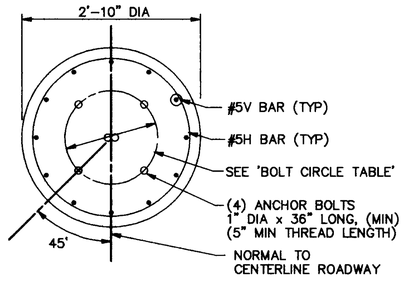
ENGR. FILE :

Connell Fleming West, Inc.
ENGINEERS AND PLANNERS

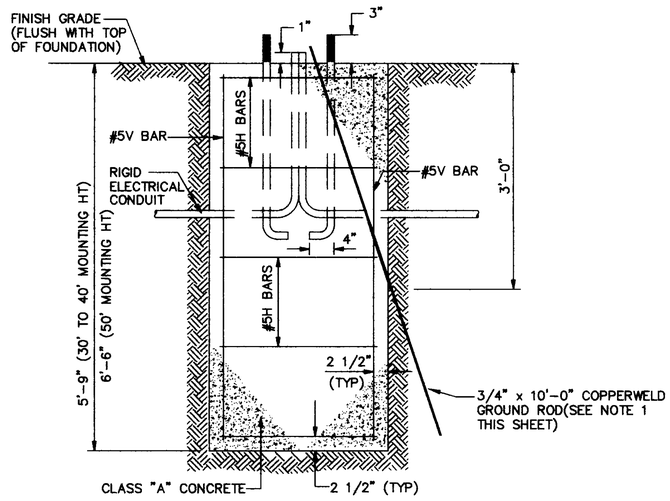
N.M. PROJECT NO. SDM-4008(208) SHEET 7-4

| F.H.W.A. REGION NO. 6 / NEW MEXICO PROJECT NO. | SHEET NO. |
|---|---|
| SDM-4008(208) | 7-5 |

| BOLT CIRCLE TABLE | | |
|---|---|---|
| MOUNTING HEIGHT | NUMBER OF ARMS | BOLT CIRCLE |
| 30'-35' | 1 OR 2 | 11" TO 12" |
| 40' | 1 | 11" TO 12" |
| 40' | 2 | 14" TO 15" |
| 50' | 1 | 14" TO 15" |
| 50' | 2 | 14" TO 16" |




PLAN

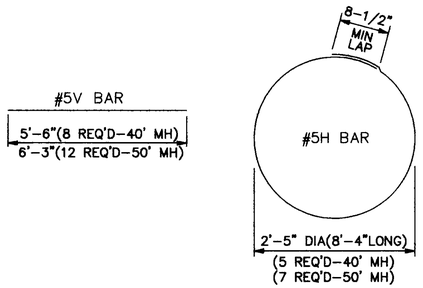



ELEVATION

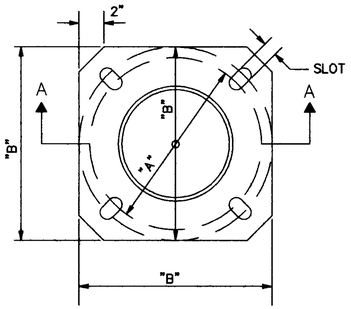
## FOUNDATION DETAILS

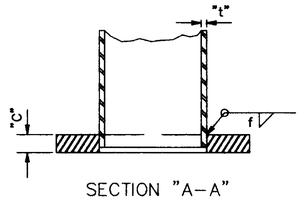
ESTIMATED FOUNDATION QUANTITIES

| ITEM | 30' TO 40' MOUNTING HT | 50' MOUNTING HT |
|---|---|---|
| REINFORCING BARS, GRADE 60 | 92 POUNDS | 139 POUNDS |
| PORTLAND CEMENT CONCRETE CLASS "A" | 1.33 CU YDS | 1.5 CU YDS |




## REINFORCING BARS

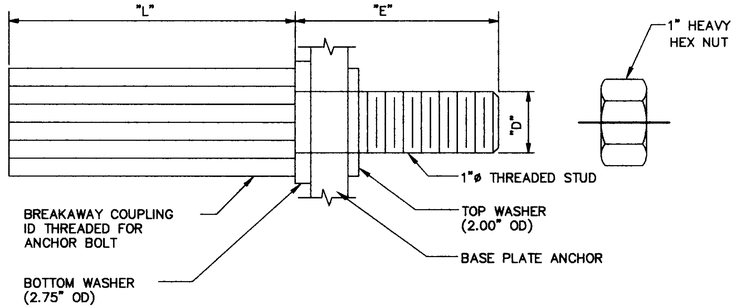



| DIMENSION TABLE | | | | | |
|---|---|---|---|---|---|
| MOUNTING HEIGHT | NUMBER OF ARMS | DIMENSIONS (INCHES) | | | |
| | | A (MIN) | B (MAX) | C | SLOT |
| 30'-35' | 1 OR 2 | 11 | 16 | 1" | 1.13" x 3.69" |
| 40' | 1 OR 2 | 11 | 16 | 1" | 1.13" x 3.69" |
| 50' | 1 OR 2 | 14 | 16 | 1" | 1.13" x 2.19" |

ANCHOR BASE SHALL BE FABRICATED FROM PLATE STEEL CONFORMING TO ASTM A-36 AND SHALL BE WELDED TO POLE SHAFT PRIOR TO GALVANIZING SHAFT.

## ANCHOR BASE DETAIL




| DIMENSION TABLE | | | | | | | |
|---|---|---|---|---|---|---|---|
| D | THREAD | MINIMUM TENSILE STRENGTH | RESTRAINED SHEAR | | NUT TORQUE ± 25 FT LBS | L | E |
| | | | MIN | MAX | | | |
| 1" | 8 UNC | 25 KIPS | 30 KIPS | 7.5 KIPS | 175 | 4-3/4" | 3-5/16" |

BREAKAWAY SUPPORT COUPLING SHALL CONFORM TO THE REQUIREMENTS OF AASHTO STANDARDS FOR BREAKAWAY SUPPORTS.

BREAKAWAY COUPLINGS SHOULD NOT BE USED ON 50' DOUBLE ARM POLES.

COUPLING SHALL BE FABRICATED FROM EITHER DIE CAST ALUMINUM ALLOY 380 ACCORDING TO ASTM B-85, OR EXTRUDED FROM ALLOY 2024-T8511 ACCORDING TO ASTM A-153.

WASHERS SHALL BE FABRICATED FROM ASTM A-36 STEEL PLATE AND SHALL BE GALVANIZED ACCORDING TO ASTM A-153.

HEX NUTS SHALL MEET THE REQUIREMENTS OF ASTM A-563 GRADE A, AND ANSI 18.2.2 HEX TYPE AND SHALL BE GALVANIZED ACCORDING TO ASTM A-153.

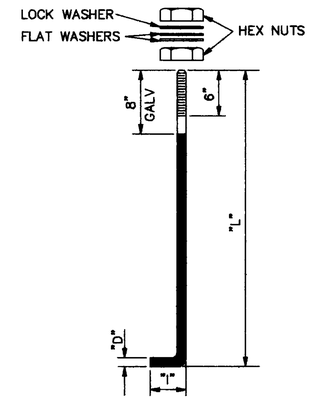
THREADED STUD SHALL MEET THE REQUIREMENT OF ASTM A-675 GRADE 90 AND IS GALVANIZED WITH ASTM A-153, OR IS FABRICATED FROM AISI STAINLESS STEEL.

WHEN COUPLINGS ARE FURNISHED, EACH LIGHT POLE SHALL BE FURNISHED WITH FOUR (4) COUPLINGS AND THREADED STUDS, EIGHT (8) FLAT WASHERS, AND FOUR (4) HEX NUTS.

## BREAKAWAY SUPPORT COUPLING

## GENERAL NOTES:

1. ALL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS AS SHOWN WHICH SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE FOUNDATION. NO PRICE OR PAYMENTS SHALL BE MADE THEREFOR.
2. WELDING SHALL BE IN ACCORDANCE WITH SECTION 1.4.2 OF AASHTO STANDARD SPECFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.
3. ALUMINUM STANDARDS MAY UTILIZE EITHER AN APPROVED ALUMINUM BASE OR BREAKAWAY COUPLINGS.




| DIMENSION TABLE | | | | | |
|---|---|---|---|---|---|
| MOUNTING HEIGHT | NUMBER OF ARMS | D | L | I | UNC |
| 30'-50' | 1 OR 2 | 1" | 36 | 4 | 8 |

ANCHOR BOLTS SHALL BE HOT BENT AND SHALL MEET THE REQUIREMENTS OF ASTM A-675 GRADE 90, NUTS MEET THE REQUIREMENTS OF ASTM A-563 GRADE A, AND ANSI B18.2.

FLAT WASHERS SHALL MEET THE REQUIREMENTS OF ANSI B27.2 HEAVY WASHERS.

LOCK WASHERS SHALL MEET THE REQUIREMENTS OF ANSI B18.21.1 HEAVY WASHERS.

BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-153.

FOUR (4) ANCHOR BOLTS, EIGHT(8) HEX NUTS, EIGHT (8) FLAT WASHERS, AND FOUR (4) LOCK WASHERS SHALL BE FURNISHED WITH EACH POLE.

NUTS, FLAT WASHERS, AND LOCK WASHERS FURNISHED FOR BREAKAWAY SUPPORTS SHALL BE SPECIFIED ON DETAILS.

## ANCHOR BOLTS

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

TRAFFIC DESIGN SECTION

ROADWAY LIGHTING

FOUNDATION & BASE DETAILS

9-96

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

Time: 9:2:42
Date: 4/18/1997 RKA
Drawing File: L:\PROJECTS\28164\STD\SRB-7-5

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 7-6 |

RECORD DRAWING
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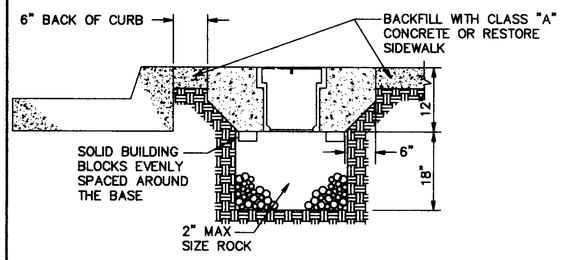
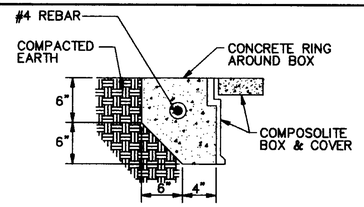
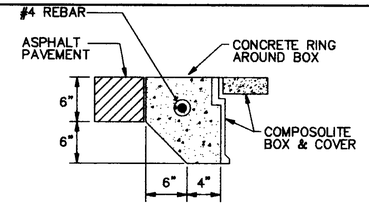



## TYPICAL PULL BOX INSTALLATION

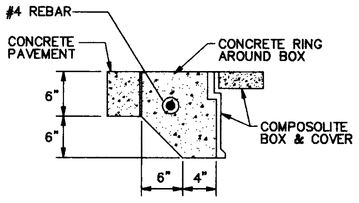
NOTE: SEE "CONCRETE COLLAR DETAILS"




IN COMPACTED EARTH



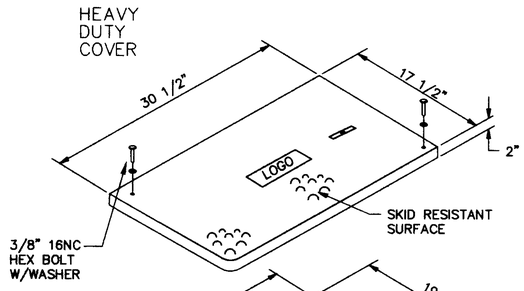

IN ASPHALT PAVEMENTS

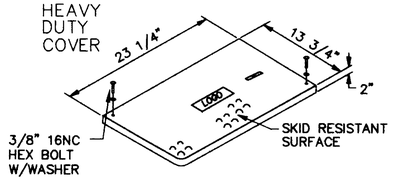


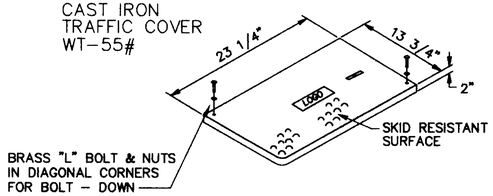

IN CONCRETE PAVEMENTS

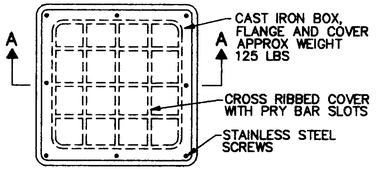
## CONCRETE COLLAR DETAIL

NOTE: THE CONCRETE COLLAR FOR THE PULL BOXES WILL BE PAID FOR UNDER THE CONTRACT ITEM FOR ELECTRICAL PULL BOX AND NO OTHER MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

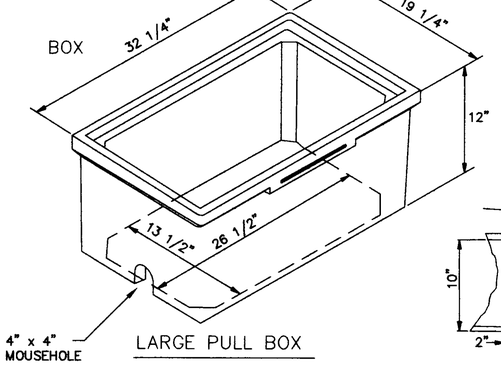


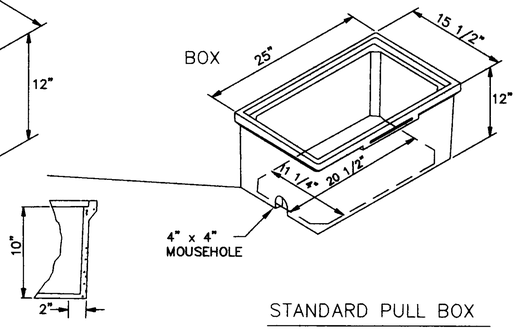




PLAN




LARGE PULL BOX

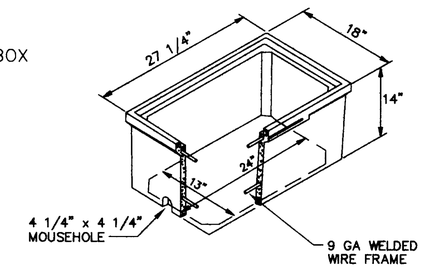



STANDARD PULL BOX

## PULL BOX DETAILS

### NOTES FOR HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVERS

1. MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES: COMPRESSIVE STRENGTH – 11,000 PSI, TENSILE STRENGTH – 1,700 PSI, FLEXURAL STRENGTH – 7,500 PSI.
2. ALL PULL BOX COVERS SHALL BE HEAVY DUTY REINFORCED POLYMER MORTAR, HAVING A SERVICE LOAD OF 22,568 LBS. OVER 10" SQUARE (225 PSI).
3. PULL BOX TYPE AND LOGO SHALL BE APPROVED BY THE PROJECT MANAGER.
4. THE DIMENSIONS OF THE PULL BOXES SHOWN ARE NOMINAL DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMENDATIONS. ALL DIMENSIONS SHALL BE VERIFIED BY THE PROJECT MANAGER.
5. ELECTRICAL PULL BOX (STANDARD) SHALL BE A HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVER MEASURING 13 3/4" X 23 1/4" X 2".



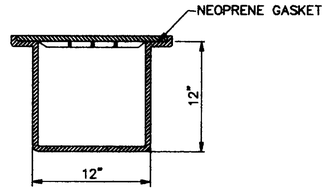

STANDARD PULL BOX

## CONCRETE PULL BOX

NOTES FOR CONCRETE ELECTRICAL PULL BOX AND COVERS

1. A #4 AWG BARE GROUNDING WIRE SHALL BE CLAMPED TO GROUNDING WIRE OR METAL CONDUIT AND BOLTED TO METAL COVER.

ACCEPTABLE VENDORS




SECTION A-A

## METAL PULL BOX

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

TRAFFIC DESIGN SECTION

PULL BOX DETAILS

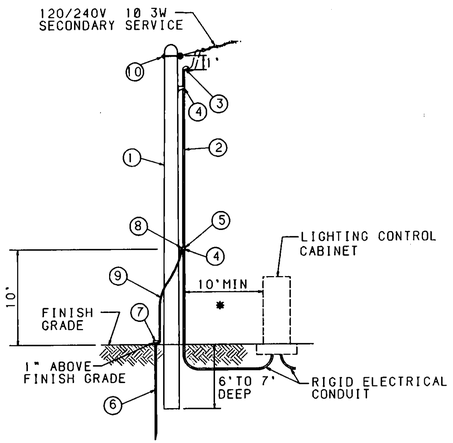
11-96

Time: 9:10:40
Date: 4/15/1997 RKA
Drawing File: L:\PROJECTS\25194\STD\SPB-7-6

ENGR. FILE :

Gannett Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 7-6




MATERIAL LIST

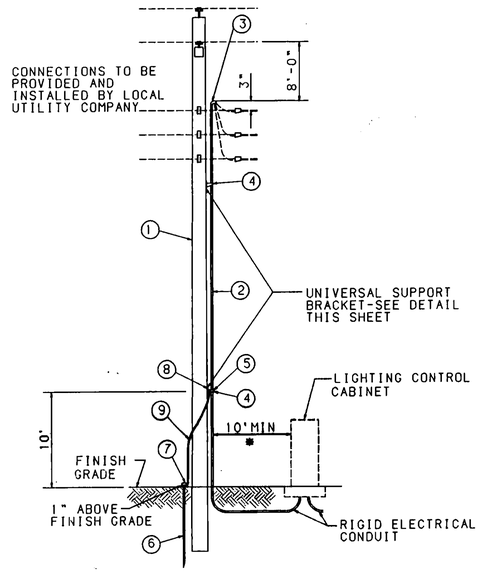
| | | |
|---|---|---|
| ① | 1 | 25' TREATED POLE |
| ② | 30' | 2" GALVANIZED CONDUIT |
| ③ | 1 | 2" WEATHER HEAD |
| ④ | 2 | UNIVERSAL SUPPORT BRACKET |
| ⑤ | 2 | 2" PIPE STRAP KIT |
| ⑥ | 1 | COPPERWELD 3/4"x10'-0" GROUND ROD |
| ⑦ | 1 | GROUND ROD CLAMP |
| ⑧ | 1 | GROUND LUG |
| ⑨ | 10' | #6 BARE COPPER GROUND WIRE |
| ⑩ | 1 | 5/8" EYE BOLT |
| | 40' | 1/C #2 THW BLACK |
| | 40' | 1/C #2 THW WHITE |
| | 40' | 1/C #2 THW RED |

## SERVICE POLE (LIGHTING)

*CONDUIT AND WIRE EXTENDING MORE THAN 10' FROM POLE WILL BE MEASURED AND PAID PER ACTUAL FOOTAGE USED.

## LIGHTING SERVICE NOTES

1. ALL SIGNAL SERVICE DETAILS, MATERIALS, & INSTALLATION SHALL CONFORM TO THE LOCAL POWER COMPANY REQUIREMENTS.
2. CONTACT LOCAL POWER COMPANY CUSTOMER SERVICES FOR POLE QUADRANT FOR RISERS.
3. ALL ABOVE GRADE CONDUIT SHALL BE GALVANIZED.
4. RISER BRACKET ASSEMBLY MUST BE GROUNDED PER LOCAL POWER COMPANY REQUIREMENTS.
5. CONDUIT AND WIRE EXTENDING MORE THAN 10' FROM POLE WILL BE MEASURED AND PAID PER ACTUAL FOOTAGE USED.
6. UNIVERSAL SUPPORT BRACKETS WILL BE CONSIDERED INCIDENTAL TO THE SERVICE RISER.
7. DRILLING HOLES IN EXISTING STEEL POLES FOR UNIVERSAL SUPPORT BRACKETS WILL NOT BE PERMITTED. BRACKETS SHALL BE MOUNTED ON STEEL POLES WITH STAINLESS STEEL BANDS.

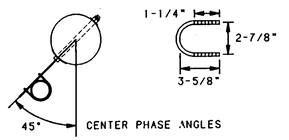


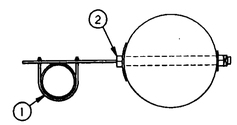

MATERIAL LIST

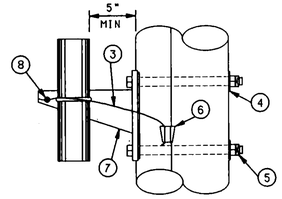
| | | |
|---|---|---|
| ① | 1 | EXISTING POLE |
| ② | 40' | 2" GALVANIZED CONDUIT |
| ③ | 1 | 2" WEATHER HEAD |
| ④ | 2 | UNIVERSAL SUPPORT BRACKET |
| ⑤ | 2 | 2" PIPE STRAP KIT |
| ⑥ | 1 | COPPERWELD 3/4"x10'-0" GROUND ROD |
| ⑦ | 1 | GROUND ROD CLAMP |
| ⑧ | 1 | GROUND LUG |
| ⑨ | 10' | #6 BARE COPPER GROUND WIRE |
| | 50' | 1/C #2 THW BLACK |
| | 50' | 1/C #2 THW WHITE. |
| | 50' | 1/C #2 THW RED |

## SERVICE RISER (LIGHTING)

*CONDUIT AND WIRE EXTENDING MORE THAN 10' FROM POLE WILL BE MEASURED AND PAID PER ACTUAL FOOTAGE USED.




MATERIAL LIST

| | | |
|---|---|---|
| ① | 1 | U BOLT |
| ② | 2 | 5/8" MACHINE BOLTS |
| ③ | 3' | #4 SOL CU WIRE |
| ④ | 2 | 2-1/4" SQUARE WASHER |
| ⑤ | 2 | 5/8" MF LOCKNUT |
| ⑥ | 1 | LINE TAP |
| ⑦ | 1 | SUPPORT BRACKET |
| ⑧ | 1 | GROUNDING LUG |

UNIVERSAL SUPPORT BRACKET NOTES:

1. BRACKET TO BE FASTENED TO POLE WITH 5/8" GALVANIZED MACHINE BOLTS.
2. BRACKET SUITABLE FOR TWO 2" CONDUITS.
3. TWO HOLE STRAPS ATTACHED AT 30" INTERVALS WITH 2" LAG SCREWS MAY BE USED INSTEAD OF THE SUPPORT BRACKET WHEN THE CONDUIT IS 1" OR LESS. A MAXIMUM OF TWO CONDUITS MAY BE STRAPPED DIRECTLY TO THE POLE.

## UNIVERSAL SUPPORT BRACKET

**BASE BID**

SURVEY INFORMATION — FIELD NOTES — NO. / BY / DATE

BENCH MARKS

AS-BUILT INFORMATION

| | DATE |
|---|---|
| CONTRACTOR | |
| STAKED BY | |
| INSPECTION BY | |
| FIELD VERIFICATION BY | |
| DRAWING CORRECTED BY | |

MICRO-FILM INFORMATION — RECORDED BY — DATE — NO.

ENGINEER'S SEAL

| NO. | DATE | REVISIONS / REMARKS | BY |
|---|---|---|---|
| | | DESIGN | |
| | DATE 1-92 | DESIGNED BY BHI/CDA | |
| | DATE 1-92 | DRAWN BY BHI/CDA | |
| | DATE 1-92 | CHECKED BY BHI/CDA | |

CITY OF ALBUQUERQUE
PUBLIC WORKS
ENGINEERING

TITLE: ELECTRICAL SERVICE DETAILS FOR LIGHTING

| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|---|---|---|---|---|---|
| DRC CHAIRMAN | | | WATER | | |
| TRANSPORTATION | | | WASTE WATER | | |
| HYDROLOGY | | | TRAF. OPER. | | |
| | | | | | |

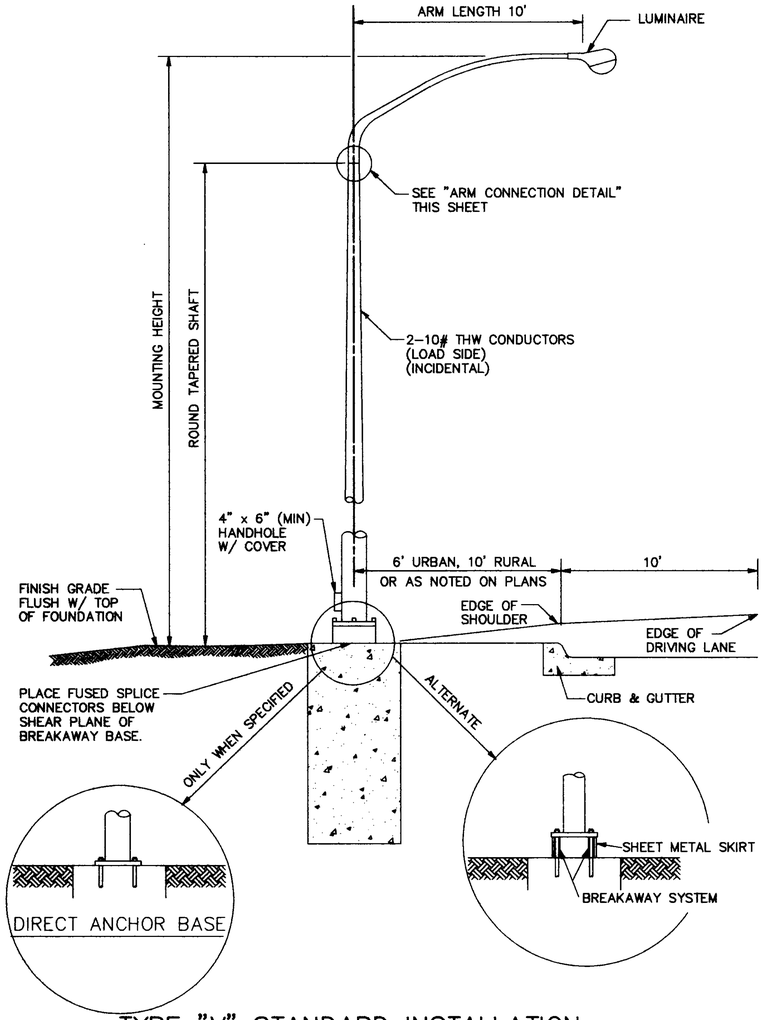
DRAWING NO. | MAP NO. | SHEET OF

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

N.M. PROJECT NO. SDM-4008(208) SHEET 7-8

TRAN4\ETTOVHD.WORKAREA.HOLD\LTSERV-COA.ORF

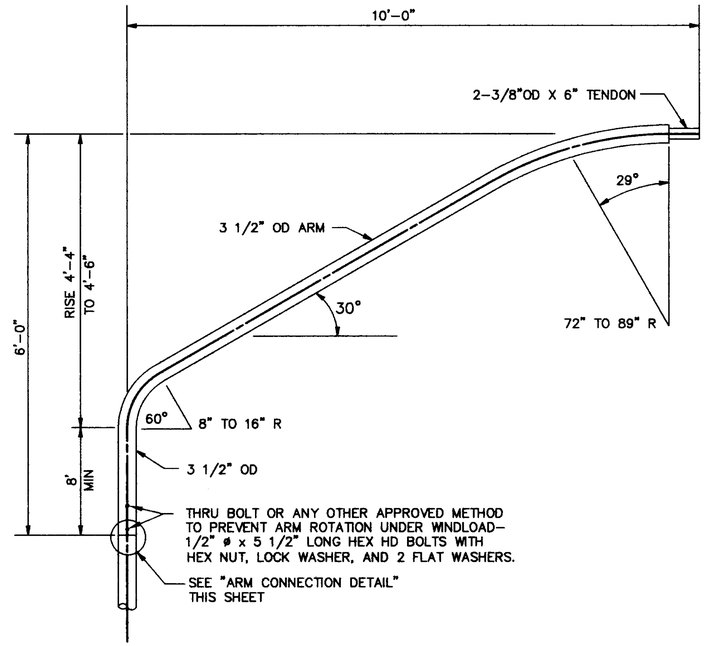
| F.H.W.A. REGION NO. 6 / NEW MEXICO PROJECT NO. | SHEET NO. |
|---|---|
| SDM-4008(208) | 7-9 |



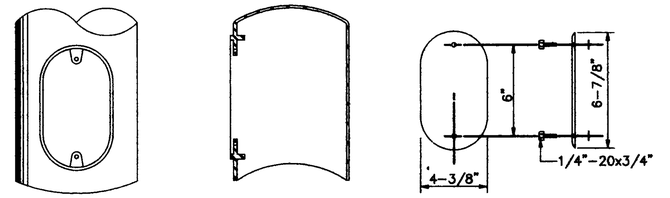

## TYPE "V" STANDARD INSTALLATION

### NOTES

1. MASTARM SHALL BE DAVIT STYLE. DIMENSIONS SHALL BE AS NOTED. ARM SHALL BE ATTACHED ON A SHAFT TENON AS DETAILED. SHAFT SHALL BE A ROUND TAPERED TUBE.
2. NUTS, BOLTS OR FASTENERS SHALL COMPLY WITH ASTM A-307 OR AASHTO M-314 GRADE 55 AND BE ZINC PLATED, ASTM A-153 OR CADMIUM PLATED, ASTMA-165.
3. BOLT GASKET SHALL BE 22 GAUGE STAINLESS STEEL SHEET OF 18-8 SERIES (301, 302, 303, 304).
4. GROUTING SHALL BE IN ACCORDANCE TO SECTION 617 OF THE STANDARD SPECIFICATIONS.
5. ACCEPTABLE TYPE V LIGHTING STANDARDS ARE VALMONT, HAPCO ALUMINUM, AND UNION METAL.
6. DETAILS SHOWN ARE FOR STEEL POLES. PRE-APPROVED ALUMINUM POLES MAY BE USED.




## ARM DETAIL



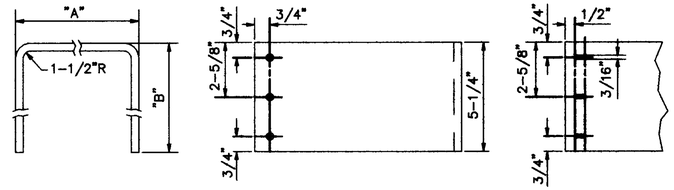

HANDHOLE REINFORCEMENT SHALL BE EITHER FORGED FROM STEEL CONFORMING TO ASTM A-576, GRADE 1021, OR FABRICATED FROM 3/16" WALL TUBING CONFORMING ASTM A-39; OR CAST FROM STEEL CONFORMING TO ASTM A-27, GRADE 65-35, OR FABRICATED WITH 6" STANDARD BLACK PIPE (0-0.280" WALL) ASTM A-53 GRADE B.

REINFORCEMENT SHALL BE WELDED TO THE POLE SHAFT IN THE 90 DEGREE LOCATION, PRIOR TO GALVANIZING POLE SHAFT. COVER SHALL BE FABRICATED FROM 3/16" SHEET STEEL OR ALUMINUM. STEEL COVER IS GALVANIZED ACCORDING TO ASTM A-153. COVER SHALL BE EQUIPPED WITH TWO (2) AISI 304 STAINLESS STEEL 1/4" - 20 x 3/4" HEX CAP SCREW AND TWO (2) CAPTIVE WASHERS.

PROVISION FOR INTERNAL GROUNDING SHALL BE PROVIDED BY A TAPPED HOLE.

HANDHOLE REINFORCEMENT SHALL STRENGTHEN POLE SHAFT SECTION TO THAT OF A SHAFT FABRICATED WITHOUT A HANDHOLE.

## HANDHOLE DETAILS



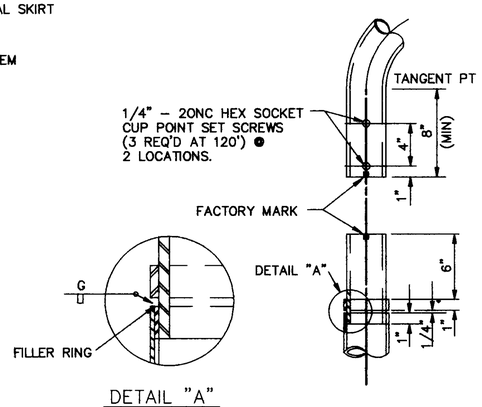

SPECIFICATION:

SKIRT COVER SHALL BE FABRICATED FROM 1/16" SHEET ALUMINUM ALLOY 3003H14. SCREWS ARE SELF TAPPING #10 x 5/8" STAINLESS STEEL. WHEN COUPLINGS ARE SPECIFIED, EACH LIGHT POLE WILL BE FURNISHED WITH TWO (2) SKIRT COVER SECTIONS AND SIX (6) SCREWS.

INTENDED USE:

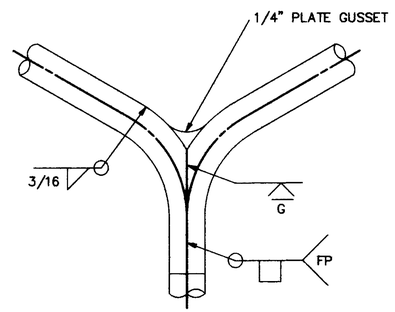
THE SKIRT COVER IS USED TO ENCLOSE VOID UNDER POLES WITH BREAKAWAY SUPPORT COUPLINGS.

## SKIRT COVER DETAILS




## DETAIL "A"

## ARM CONNECTION DETAIL




## DOUBLE ARM CONNECTION DETAIL

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

TRAFFIC DESIGN SECTION

ROADWAY LIGHTING TYPE "V" STANDARD

11-96

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

Time: 8:16:11
Date: 4/16/1997 RKA
Drawing File: L:\PROJECTS\2816A\STD\SRB-7-8

ENGR. FILE :

Gannett Fleming West, Inc. ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 7-9

# SIGN FACE DETAILS

## FOR WORK/MAINTENANCE

ALL SIGNS ARE BLACK ON ORANGE
UNLESS OTHERWISE SPECIFIED

W1-2L-48 W1-2R-48 W4-2R-48

W1-4L-48 W1-4R-48 W4-2L-48

W8-9a-48 W6-3-48 W20-7a-48

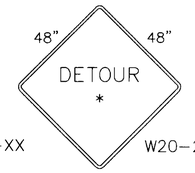
W5-1-48

W20-7b-48

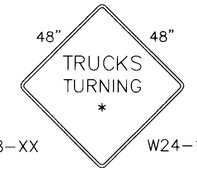
THESE SIGNS REQUIRE APPROPRIATE DISTANCE
INDICATION (1 1/2 MILE, 1 MILE, 1/2 MILE, 1500 FT., 750 FT., 700 FT., 500 FT., 300 FT.)

W20-5L-48-XX

W20-4-48-XX

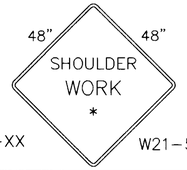



W20-2-48-XX

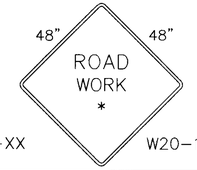



W24-17-48-XX

W20-5R-48-XX



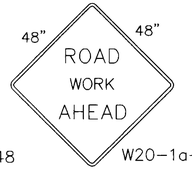

W21-5-48-XX



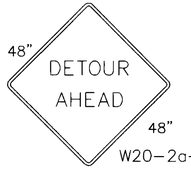

W20-1-48-XX

W22-1-48-XX

W21-5a-48

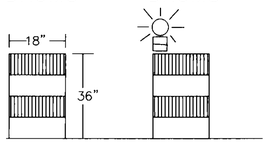



W20-1a-48



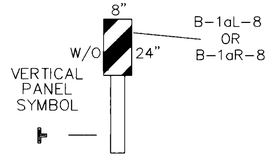

W20-2a-48

DRUMS DRUMS

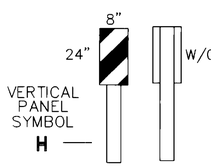



DRUM SYMBOL

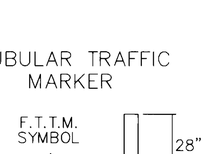
ALL DRUMS SHALL COMPLY WITH THE SPECIFICATION OF SECTION 702-TRAFFIC CONTROL DEVICES FOR CONSTRUCTION, NMSHTD STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 1994 EDITION.



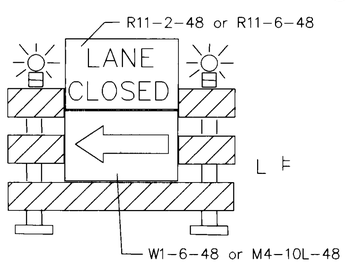

VERTICAL PANEL
(SINGLE)
B-1aL-8 (STRIPE LEFT)OR
B-1-aR-8(STRIPE RIGHT)



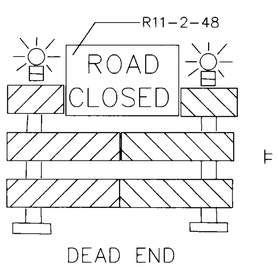

VERTICAL PANEL
(BACK TO BACK)
B-1aLR-8



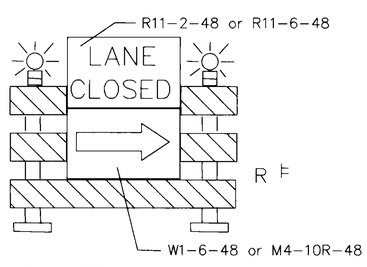

## 8 FT. TYPE III BARRICADES




B-1R-96




DEAD END
B-1(RL)-96

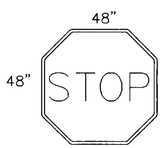



B-1L-96

W8-3-36

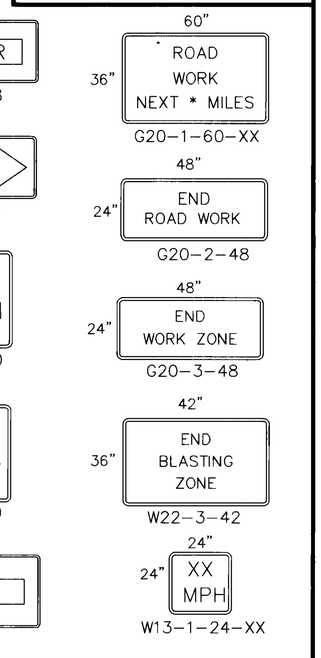
R11-2-48
B/W

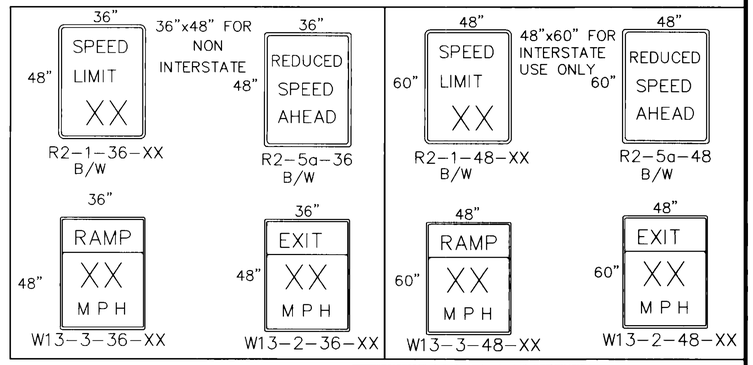
R11-6-48
B/W




R1-1-48
W/R,RL-RB

NOT TO SCALE

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REVISIONS (OR CHANGE NOTICES)

AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 8-1 |

**NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT**
**TRAFFIC DESIGN SECTION**

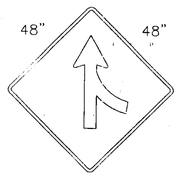
**RIO BRAVO WEST EXTENSION**
**PHASE I**
**COUNTY OF BERNALILLO**

SIGN FACE DETAILS FOR CONSTRUCTION & MAINTENANCE PLANS

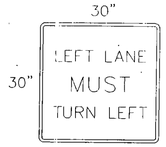
DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____

E:\US285\PLNHND-N\TRF-CON\TC-S1 6-25-96 9:27:27 am

NM PROJECT NO. SDM-4008(208) SHEET NO. 8-1




W4-1-48

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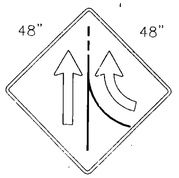


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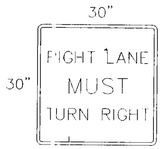


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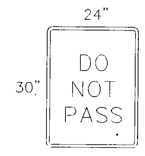
R1-2-36

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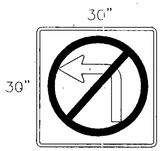


R3-2-30

**PHASE A**

**I. Sheets 8-4 to 8-5**

a) Transition northbound and southbound traffic along Coors Boulevard to outside lanes. One lane each direction.

b) Remove existing median and median traffic signals along Coors Boulevard from BOP to EOP. Replace with temporary PMBP paving.

**II. Sheets 8-6 to 8-8**

a) Transition northbound and southbound traffic along Coors Boulevard to west side of existing Coors Boulevard. Two-way traffic will exist from BOP to EOP.

b) Close southern half of Rio Bravo and transition eastern and western traffic of Rio Bravo to north side of existing Rio Bravo. Two-way traffic will exist from existing intersection to EOP.

c) Construct new Rio Bravo roadway south of existing Rio Bravo from Coors Boulevard to EOP.

d) Construct east side of new Coors Boulevard south of existing intersection of Rio Bravo and Coors.

e) Intersection controlled by temporary span wire signal. (See sheets 8-16 and 8-17).

f) Access to local businesses and residences shall be maintained throughout construction.

**III. Sheets 8-9 to 8-11**

a) Keep northbound and southbound traffic along Coors Boulevard on west side of Coors Boulevard. Two-way traffic.

b) Transition eastbound and westbound traffic of Rio Bravo Boulevard on south side of new Rio Bravo. Two-way traffic will exist from new intersection to EOP.

c) Construct northern half of new Rio Bravo from Coors Boulevard to EOP.

d) Construct east side of new Coors Boulevard north of new intersection of Coors Boulevard and Rio Bravo to EOP.

e) Intersection controlled by temporary span wire signal. (See sheets 8-16 and 8-17).

f) Access to local businesses and residences shall be maintained throughout construction.

**IV. Sheets 8-12 to 8-13**

a) Transition northbound and southbound traffic along existing Coors Boulevard to east side of new Coors Boulevard. Two-way traffic will exist from BOP to EOP.

b) Construct western half of Coors Boulevard from BOP to EOP.

c) Intersection controlled by temporary span wire signal. (See sheets 8-16 and 8-17).

d) Access to local businesses and residences shall be maintained throughout construction.

**PHASE B**

**I. Sheets 8-14 to 8-15**

a) Construct Rio Bravo west of Coors.

**NOTE: PHASE A AND PHASE B MAY BE CONSTRUCTED SIMULTANEOUSLY.**

Connett Fleming West Inc

AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 8-2 |

**GENERAL NOTES:**

1. Access shall be maintained to all side streets, businesses and residences during construction.
2. Appropriate side street signing (ROAD CONSTRUCTION AHEAD) shall be placed on all side street approaches.
3. All conflicting pavement striping and markings shall be removed prior to opening any section of roadway to traffic.
4. **TRAFFIC CONTROL PLAN shall be submitted to Bernalillo County Traffic Engineering for approval. This plan shall be submitted in accordance with Ordinance 95-12. The plan shall be submitted at least 3 working days prior to start of construction.**
5. **Contractor shall file a schedule with Bernalillo County Traffic Engineering showing the next week's traffic control measures that will be implemented. This schedule shall be filed by 4:30 PM every Thursday.**

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

CHRIS E. BACA — NEW MEXICO — 12133 — REGISTERED PROFESSIONAL ENGINEER — 5/15/11

# NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

## RIO BRAVO WEST EXTENSION
## COUNTY OF BERNALILLO

**CONSTRUCTION SEQUENCING NOTES AND ADDITIONAL SIGN FACE DETAILS**

N.M. PROJECT NO. SDM-4008(208) SHEET 8-2

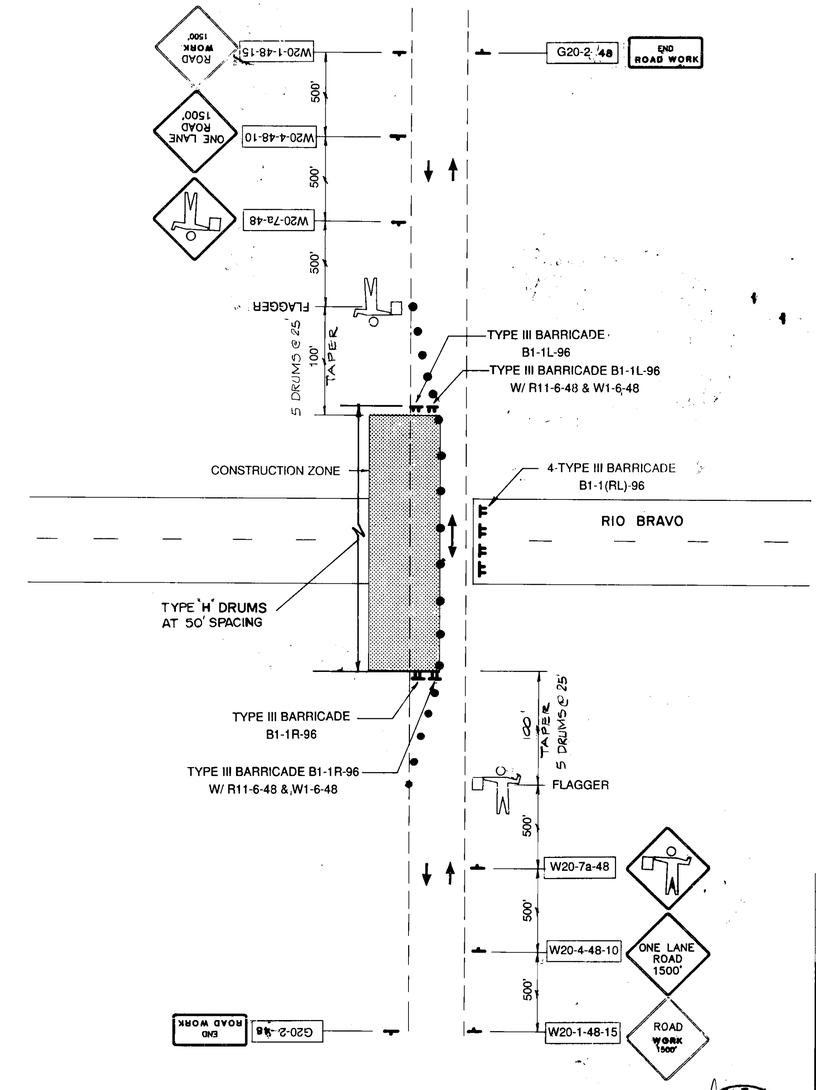
Connett Fleming West Inc

AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 8-3 |

# PHASE B

TYPICAL FOR CROSS STREET CONSTRUCTION




**LEGEND**

- CONSTRUCTION AREA
- AREA CLOSED TO TRAFFIC
- SIGN
- TYPE H DRUM
- VERTICAL PANELS (SINGLE)
- VERTICAL PANELS (BACK TO BACK)
- TYPE III BARRICADES
- SEQUENTIAL ARROW
- FLAGGER

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

CONSTRUCTION SEQUENCING DETAILS

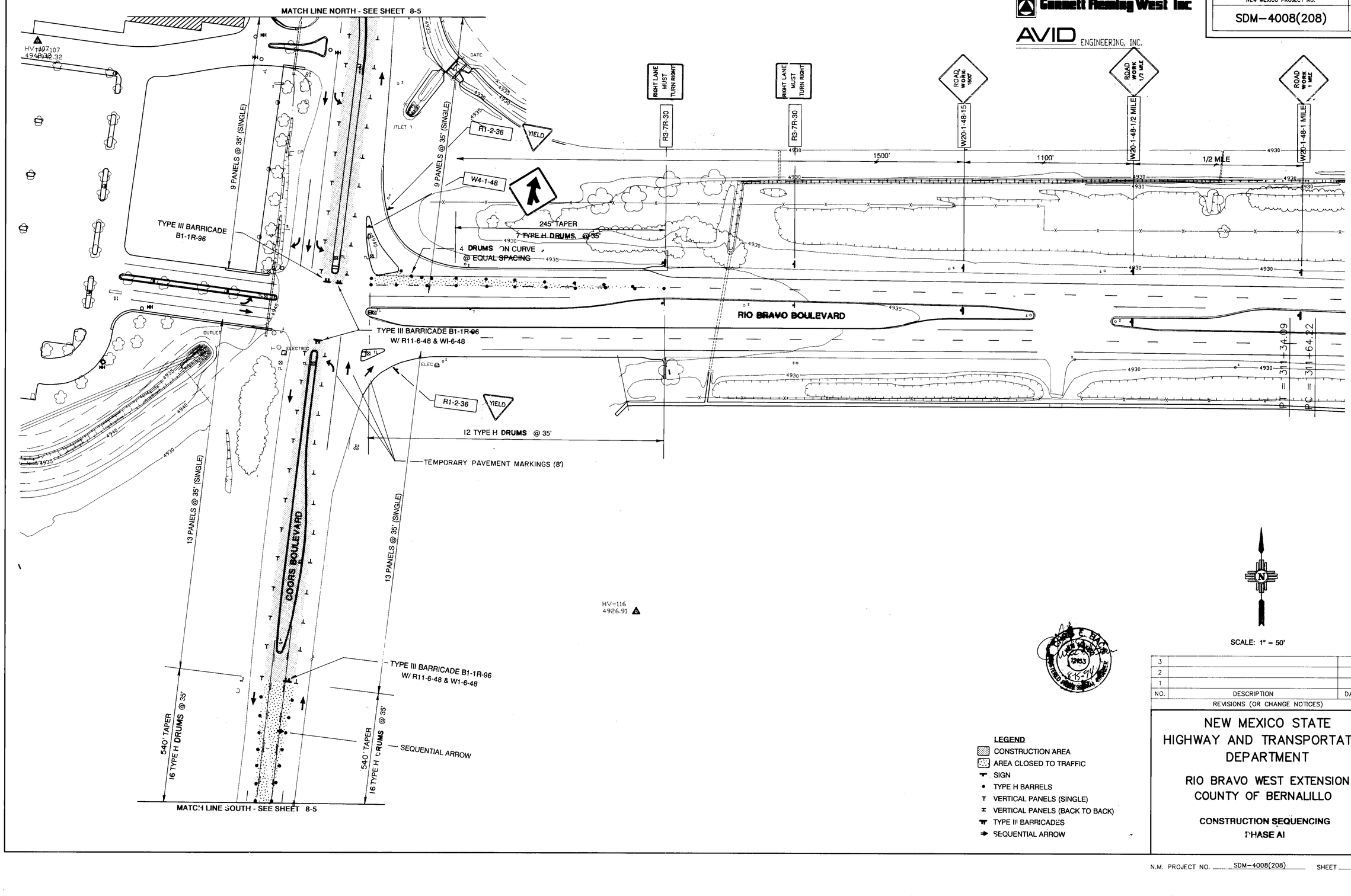
CURTIS E. BREAM — NEW MEXICO — 12133 — 5-15-94 — REGISTERED PROFESSIONAL ENGINEER

N.M. PROJECT NO. SDM-4008(208) SHEET 8-3

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM–4008(208) | 8-4 |

Gannett Fleming West Inc

AVID ENGINEERING, INC.




SCALE: 1" = 50'

**LEGEND**

- CONSTRUCTION AREA
- AREA CLOSED TO TRAFFIC
- SIGN
- TYPE H BARRELS
- VERTICAL PANELS (SINGLE)
- VERTICAL PANELS (BACK TO BACK)
- TYPE III BARRICADES
- SEQUENTIAL ARROW

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

# NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

## RIO BRAVO WEST EXTENSION
## COUNTY OF BERNALILLO

**CONSTRUCTION SEQUENCING**
**PHASE AI**

N.M. PROJECT NO. SDM–4008(208) SHEET 8-4

Connell Fleming West Inc

AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
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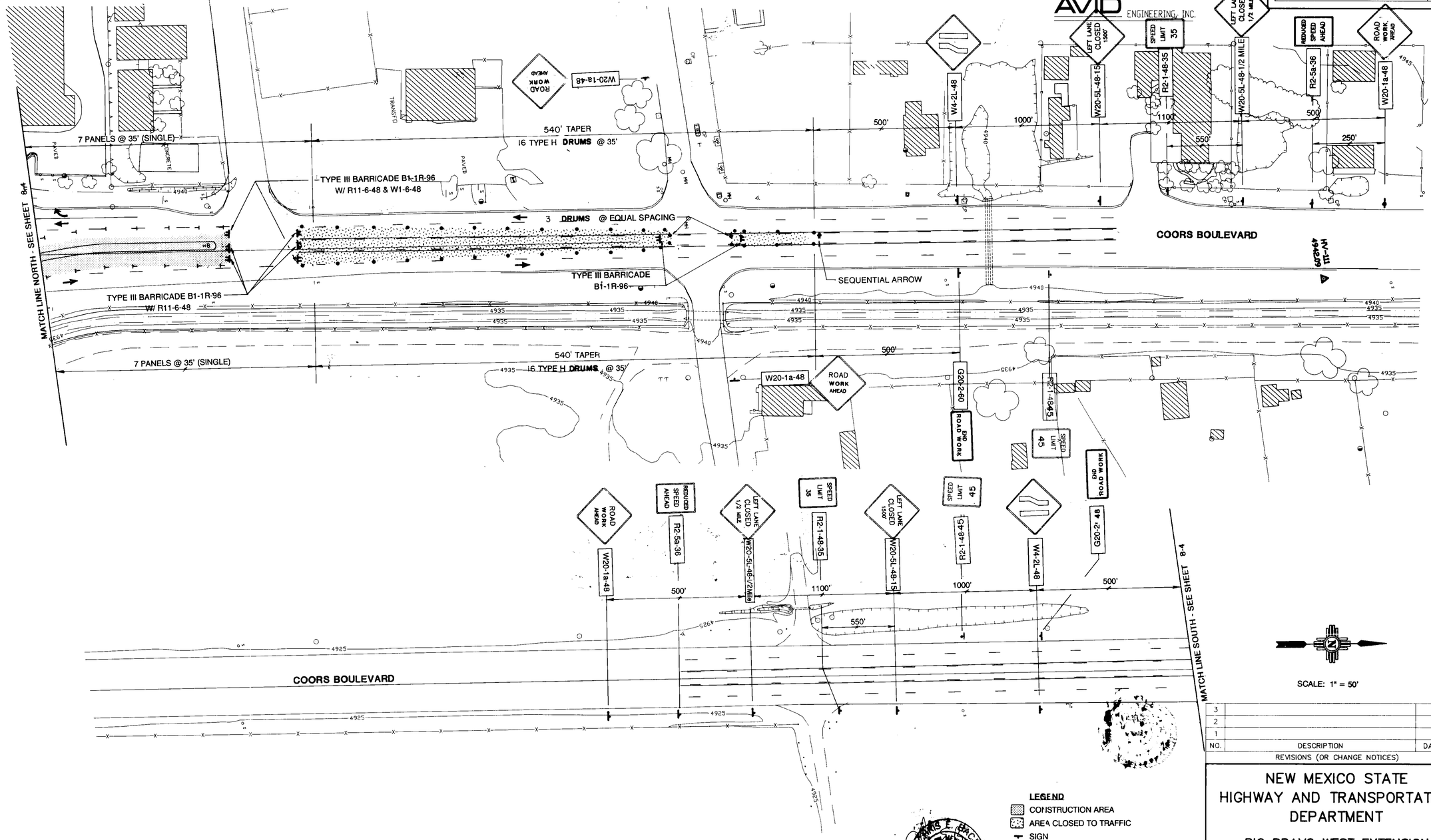
| NEW MEXICO PROJECT NO. | |
| SDM–4008(208) | 8-5 |




SCALE: 1" = 50'

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REVISIONS (OR CHANGE NOTICES)

**LEGEND**

- CONSTRUCTION AREA
- AREA CLOSED TO TRAFFIC
- SIGN
- TYPE H BARRELS
- VERTICAL PANELS (SINGLE)
- VERTICAL PANELS (BACK TO BACK)
- TYPE III BARRICADES
- SEQUENTIAL ARROW

# NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

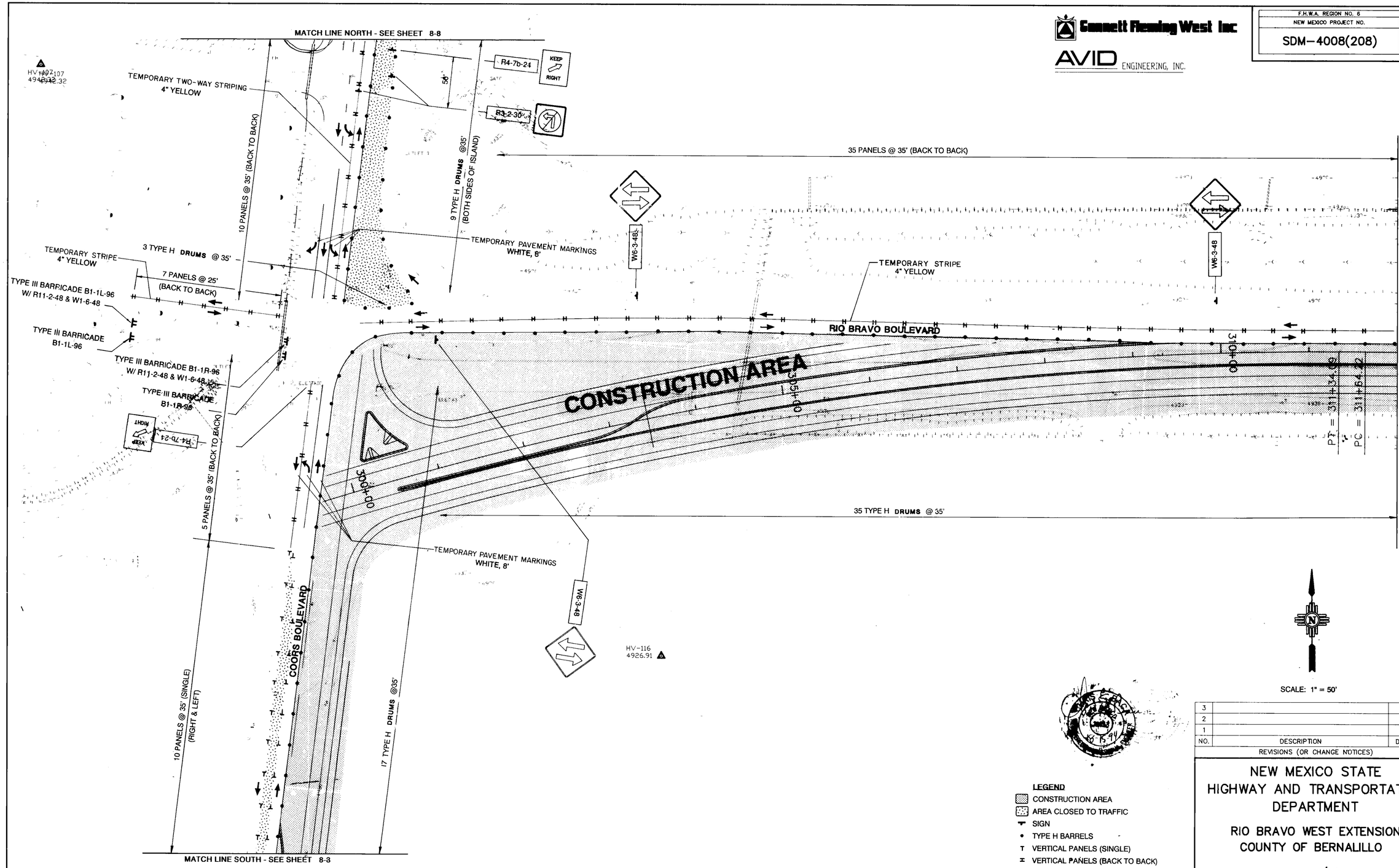
## RIO BRAVO WEST EXTENSION
## COUNTY OF BERNALILLO

**CONSTRUCTION SEQUENCING**
**PHASE AI**

N.M. PROJECT NO. SDM–4008(208) SHEET 8-5

Connell Fleming West Inc
AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM–4008(208) | 8-6 |




SCALE: 1" = 50'

**LEGEND**

- CONSTRUCTION AREA
- AREA CLOSED TO TRAFFIC
- SIGN
- TYPE H BARRELS
- VERTICAL PANELS (SINGLE)
- VERTICAL PANELS (BACK TO BACK)
- TYPE III BARRICADES
- SEQUENTIAL ARROW

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

# NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

## RIO BRAVO WEST EXTENSION
## COUNTY OF BERNALILLO

**CONSTRUCTION SEQUENCING**
**PHASE AII**

N.M. PROJECT NO. SDM–4008(208) SHEET 8-6

Gannett Fleming West Inc

AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
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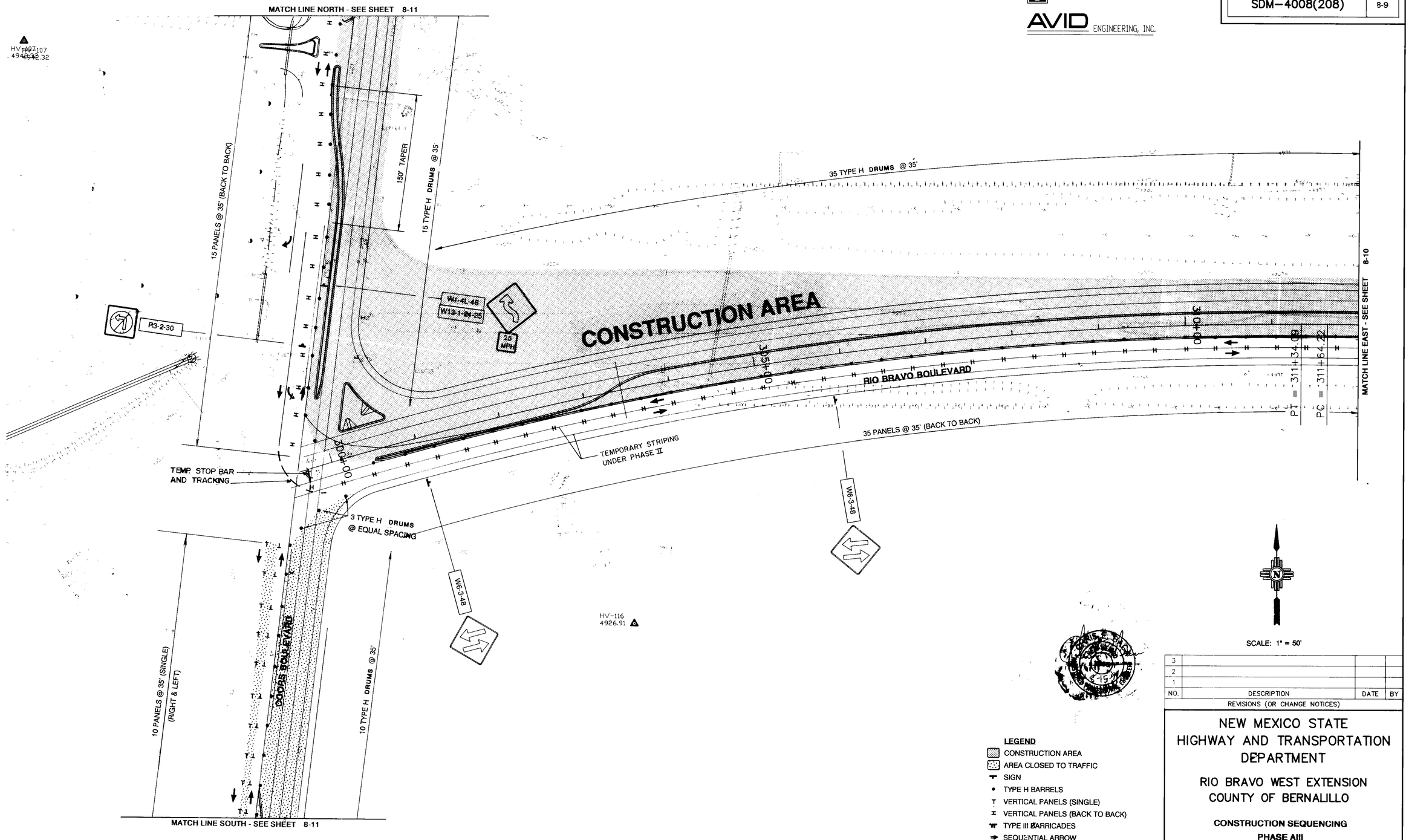
| NEW MEXICO PROJECT NO. | |
| SDM–4008(208) | 8-9 |




**LEGEND**

- CONSTRUCTION AREA
- AREA CLOSED TO TRAFFIC
- SIGN
- TYPE H BARRELS
- VERTICAL PANELS (SINGLE)
- VERTICAL PANELS (BACK TO BACK)
- TYPE III BARRICADES
- SEQUENTIAL ARROW

SCALE: 1" = 50'

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REVISIONS (OR CHANGE NOTICES)

# NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

## RIO BRAVO WEST EXTENSION
## COUNTY OF BERNALILLO

**CONSTRUCTION SEQUENCING**
**PHASE AIII**

N.M. PROJECT NO. SDM-4008(208) SHEET 8-9

Connell Fleming West Inc

AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
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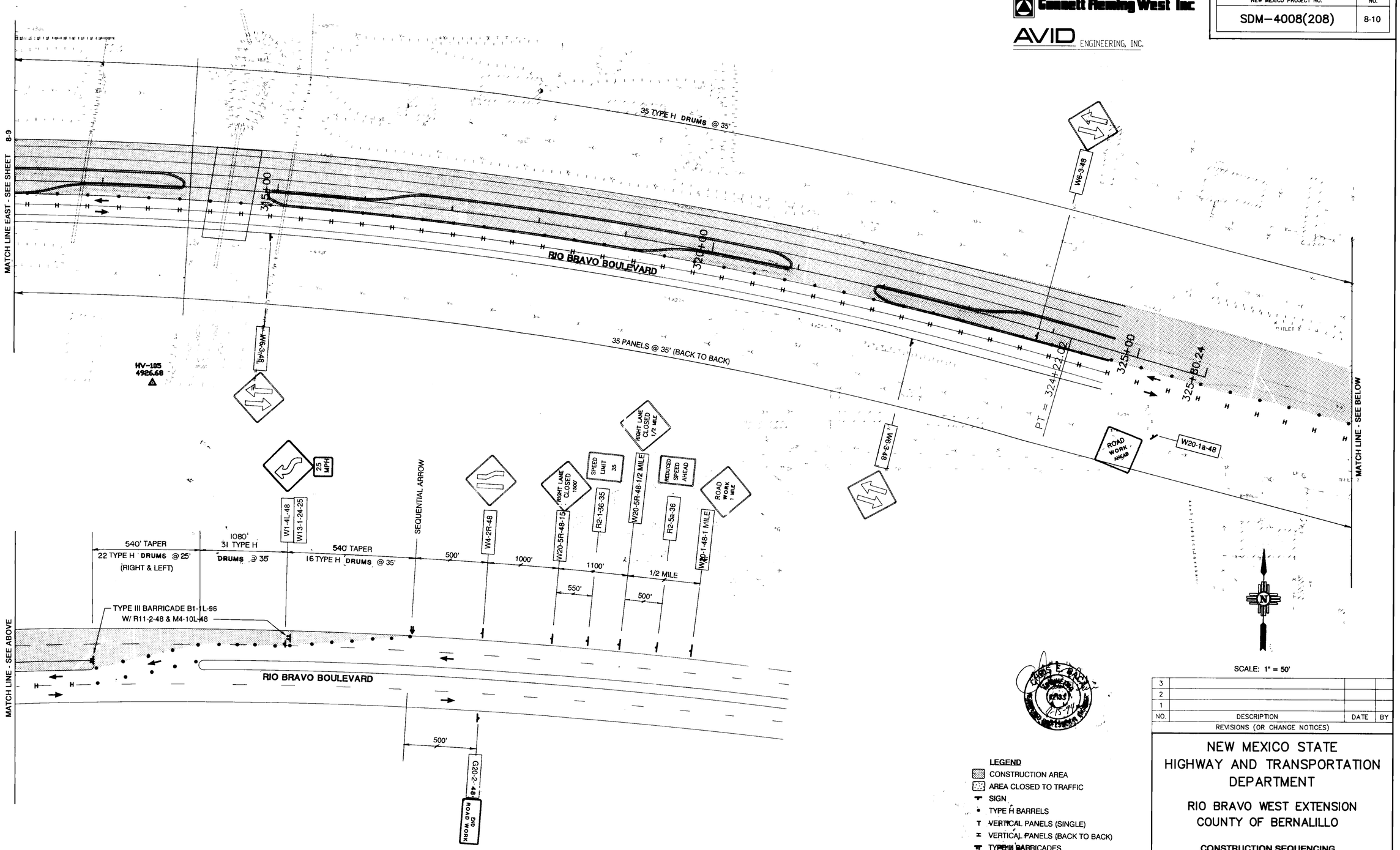
| NEW MEXICO PROJECT NO. | |
| SDM–4008(208) | 8-10 |




SCALE: 1" = 50'

**LEGEND**

- CONSTRUCTION AREA
- AREA CLOSED TO TRAFFIC
- SIGN
- TYPE H BARRELS
- VERTICAL PANELS (SINGLE)
- VERTICAL PANELS (BACK TO BACK)
- TYPE III BARRICADES
- SEQUENTIAL ARROW

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REVISIONS (OR CHANGE NOTICES)

# NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

## RIO BRAVO WEST EXTENSION
## COUNTY OF BERNALILLO

**CONSTRUCTION SEQUENCING**
**PHASE AIII**

N.M. PROJECT NO. SDM–4008(208) SHEET 8-10

Connett Fleming West Inc.

AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
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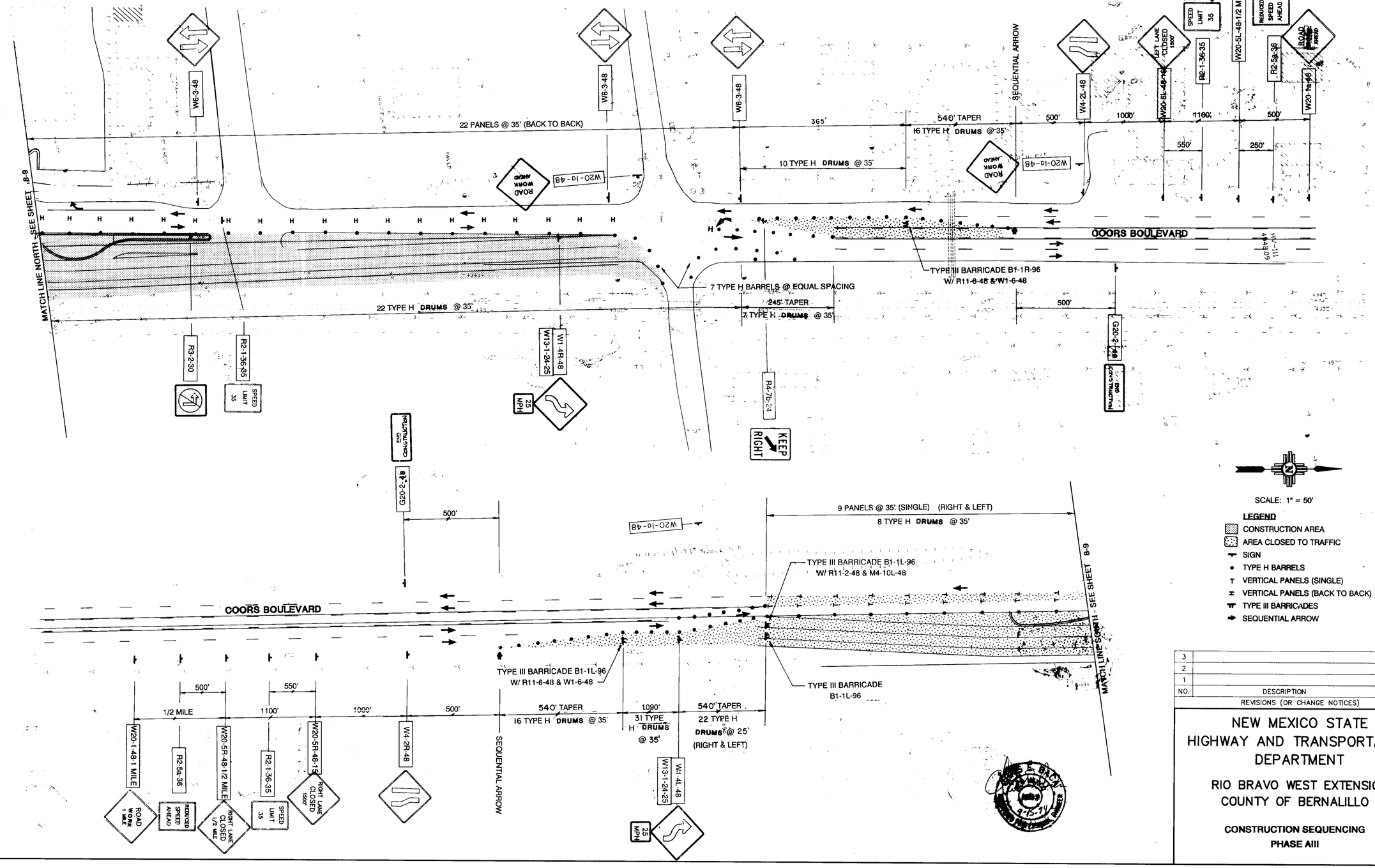
| NEW MEXICO PROJECT NO. | |
| SDM–4008(208) | 8-11 |




SCALE: 1" = 50'

**LEGEND**

- CONSTRUCTION AREA
- AREA CLOSED TO TRAFFIC
- SIGN
- TYPE H BARRELS
- VERTICAL PANELS (SINGLE)
- VERTICAL PANELS (BACK TO BACK)
- TYPE III BARRICADES
- SEQUENTIAL ARROW

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

# NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

## RIO BRAVO WEST EXTENSION
## COUNTY OF BERNALILLO

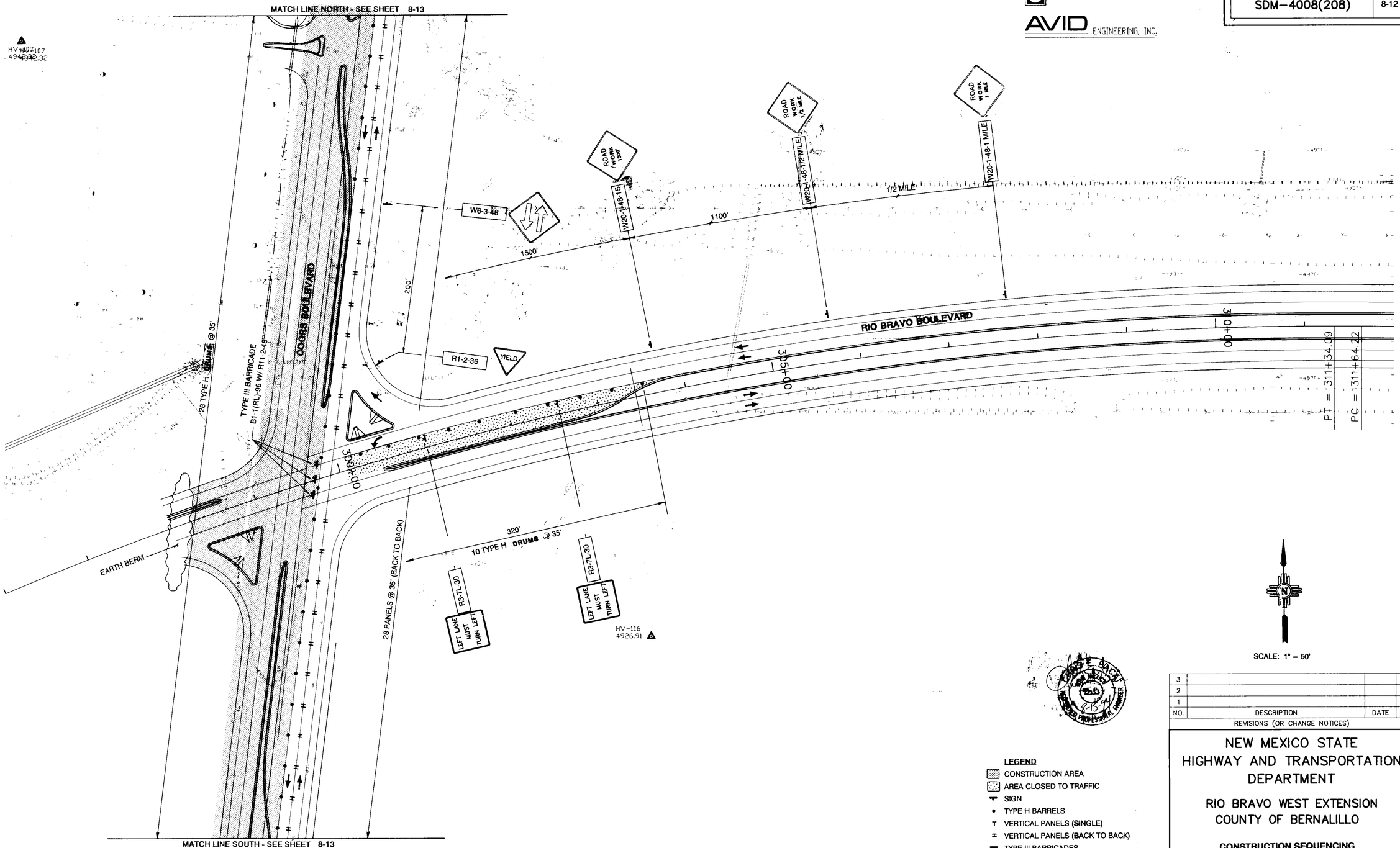
**CONSTRUCTION SEQUENCING**
**PHASE AIII**

N.M. PROJECT NO. SDM–4008(208) SHEET 8-11

Gannett Fleming West Inc

AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 8-12 |




SCALE: 1" = 50'

**LEGEND**

- CONSTRUCTION AREA
- AREA CLOSED TO TRAFFIC
- SIGN
- TYPE H BARRELS
- VERTICAL PANELS (SINGLE)
- VERTICAL PANELS (BACK TO BACK)
- TYPE III BARRICADES
- SEQUENTIAL ARROW

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

# NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

## RIO BRAVO WEST EXTENSION
## COUNTY OF BERNALILLO

**CONSTRUCTION SEQUENCING**
**PHASE AIV**

N.M. PROJECT NO. SDM-4008(208) SHEET 8-12

AVID ENGINEERING, INC.

Connett Fleming West Inc.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
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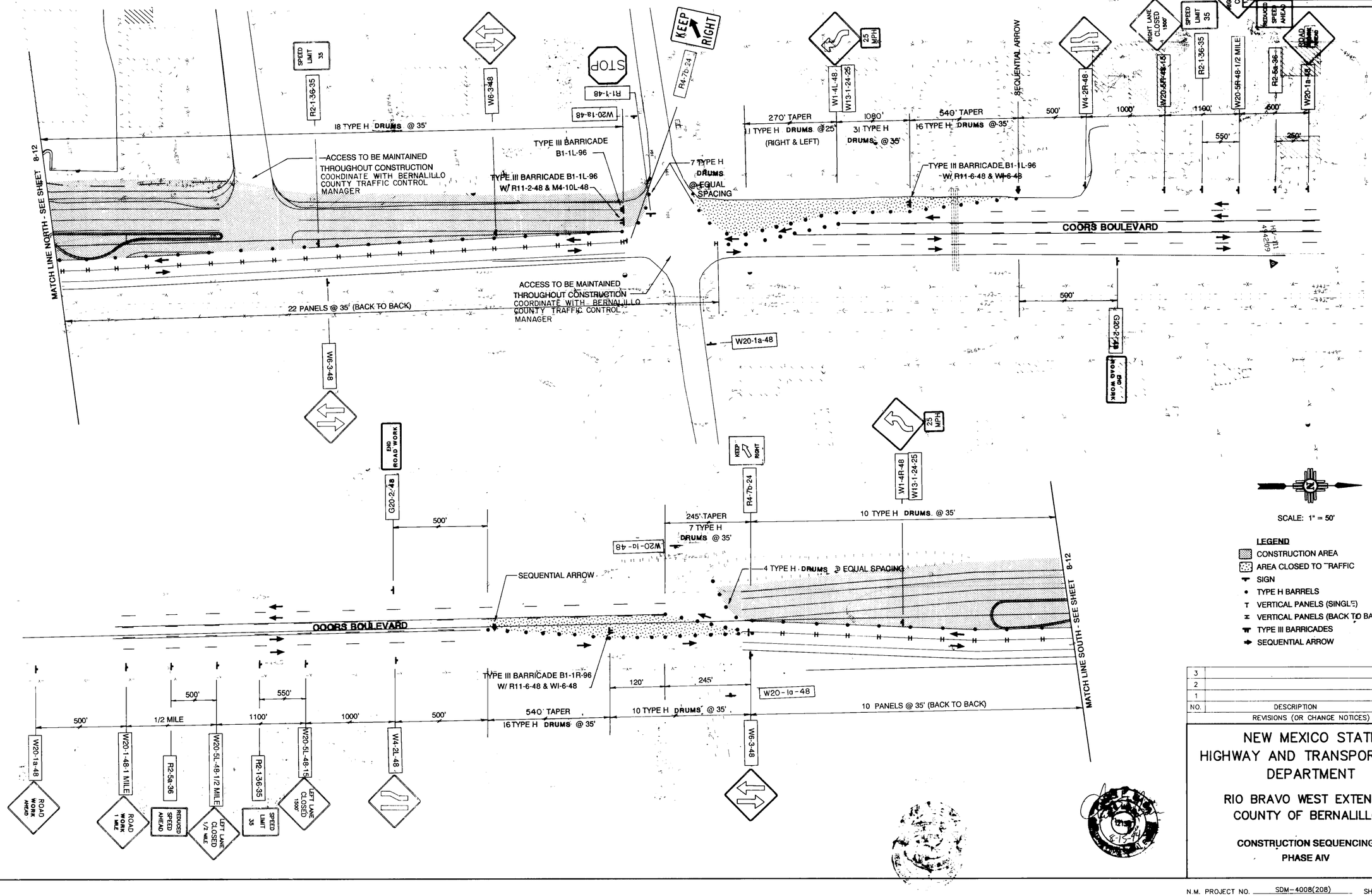
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 8-13 |




SCALE: 1" = 50'

**LEGEND**

- CONSTRUCTION AREA
- AREA CLOSED TO TRAFFIC
- SIGN
- TYPE H BARRELS
- VERTICAL PANELS (SINGLE)
- VERTICAL PANELS (BACK TO BACK)
- TYPE III BARRICADES
- SEQUENTIAL ARROW

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

# NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

## RIO BRAVO WEST EXTENSION
## COUNTY OF BERNALILLO

**CONSTRUCTION SEQUENCING**
**PHASE AIV**

8-15-94

N.M. PROJECT NO. SDM-4008(208) SHEET 8 13

Connell Fleming West Inc

AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
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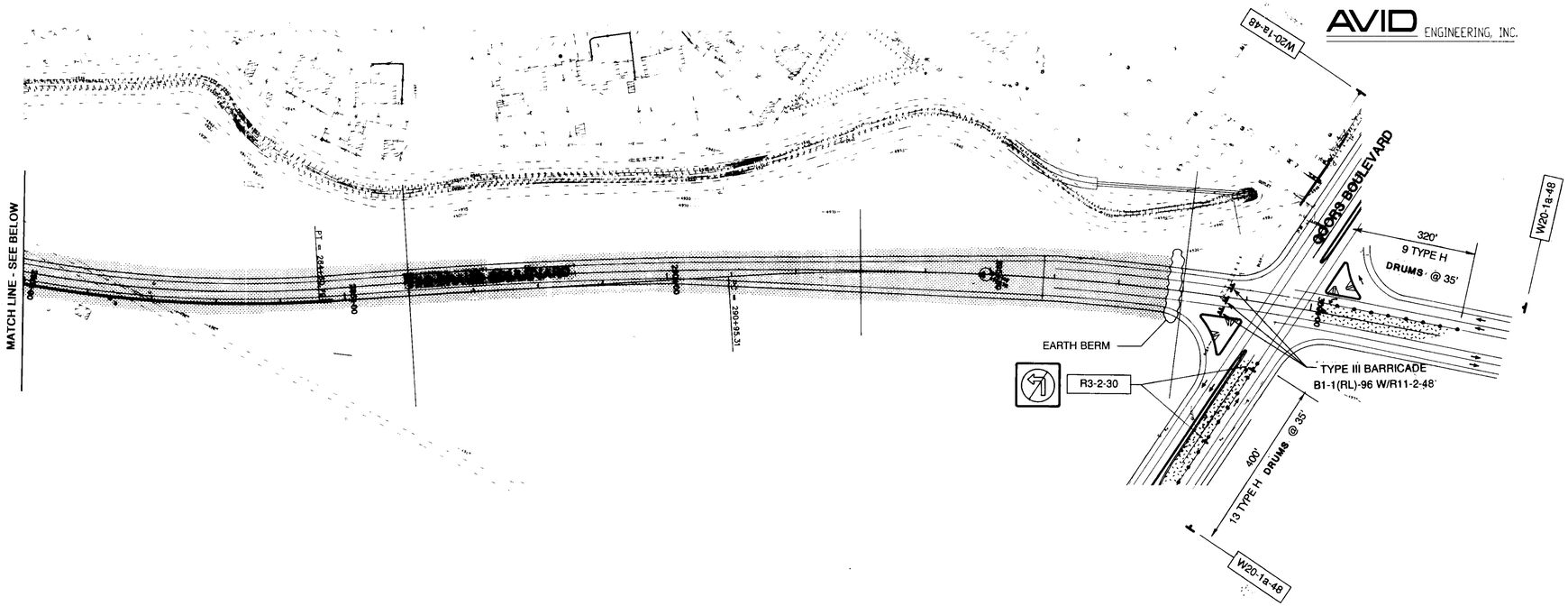
| NEW MEXICO PROJECT NO. | |
| SDM–4008(208) | 8-14 |

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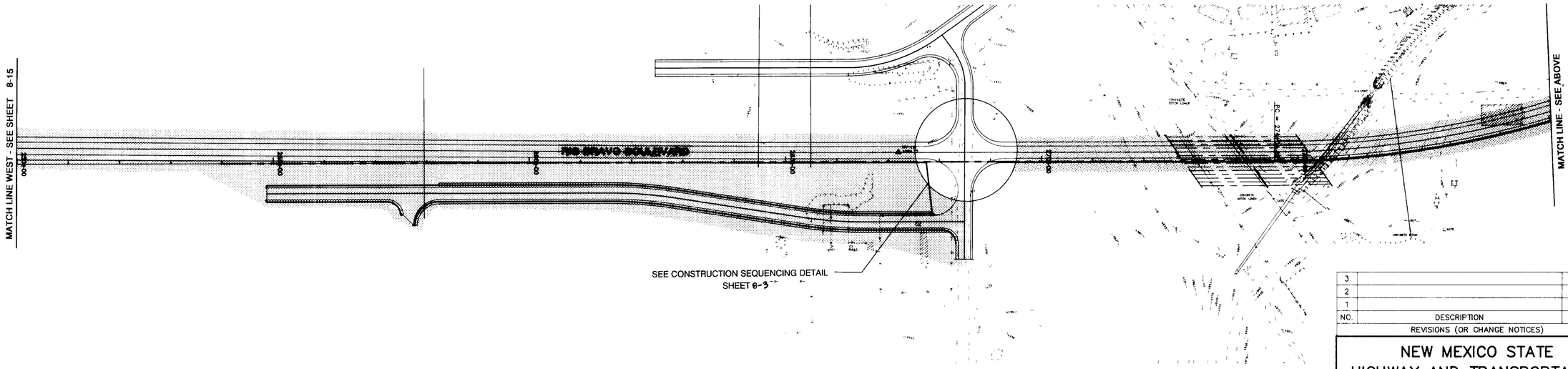


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REVISIONS (OR CHANGE NOTICES)

**LEGEND**

- CONSTRUCTION AREA
- AREA CLOSED TO TRAFFIC
- SIGN
- TYPE H BARRELS
- VERTICAL PANELS (SINGLE)
- VERTICAL PANELS (BACK TO BACK)
- TYPE III BARRICADES
- SEQUENTIAL ARROW

# NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

## RIO BRAVO WEST EXTENSION
## COUNTY OF BERNALILLO

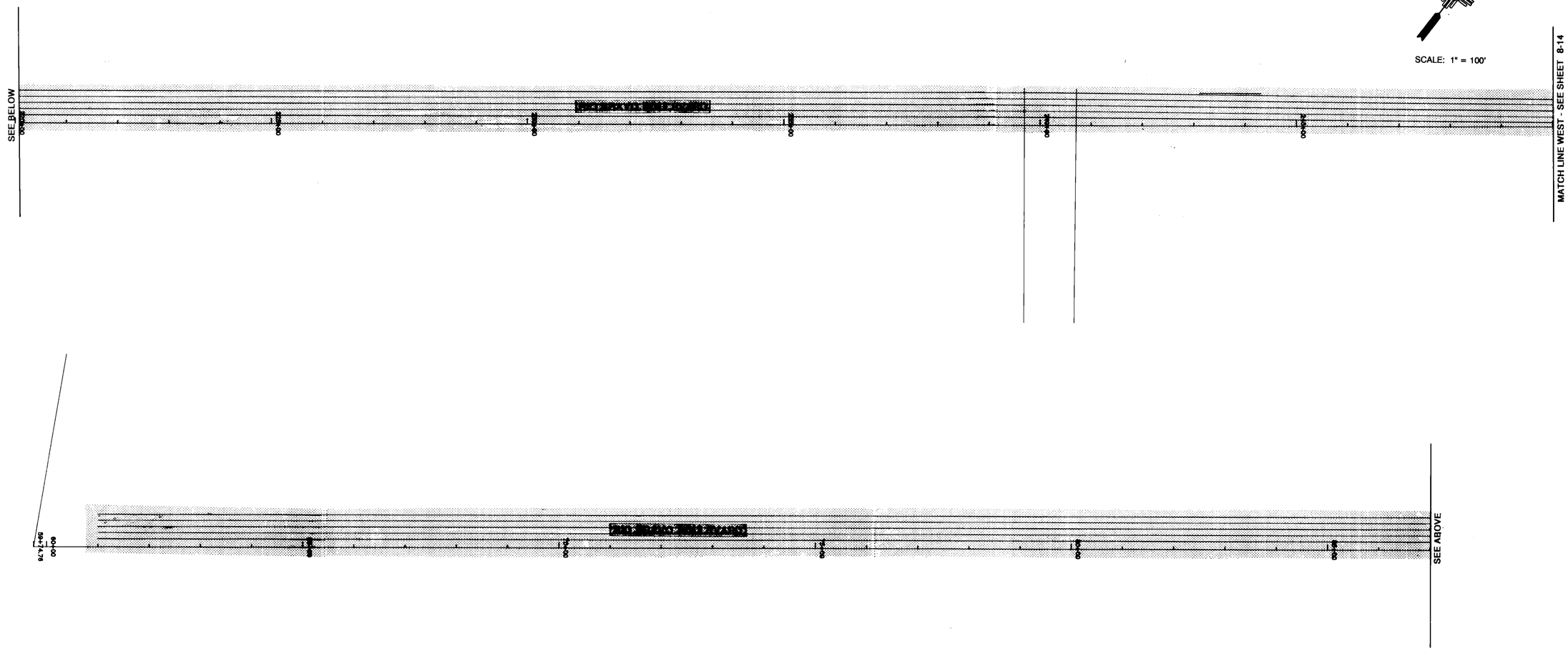
**CONSTRUCTION SEQUENCING**
**PHASE B**

Connell Fleming West Inc

AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 8-15 |

SCALE: 1" = 100'




**LEGEND**

- CONSTRUCTION AREA
- AREA CLOSED TO TRAFFIC
- SIGN
- TYPE H BARRELS
- VERTICAL PANELS (SINGLE)
- VERTICAL PANELS (BACK TO BACK)
- TYPE III BARRICADES
- SEQUENTIAL ARROW

JAMES E. BACA — NEW MEXICO — 12763 — REGISTERED PROFESSIONAL ENGINEER — 1-15-97

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

# NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

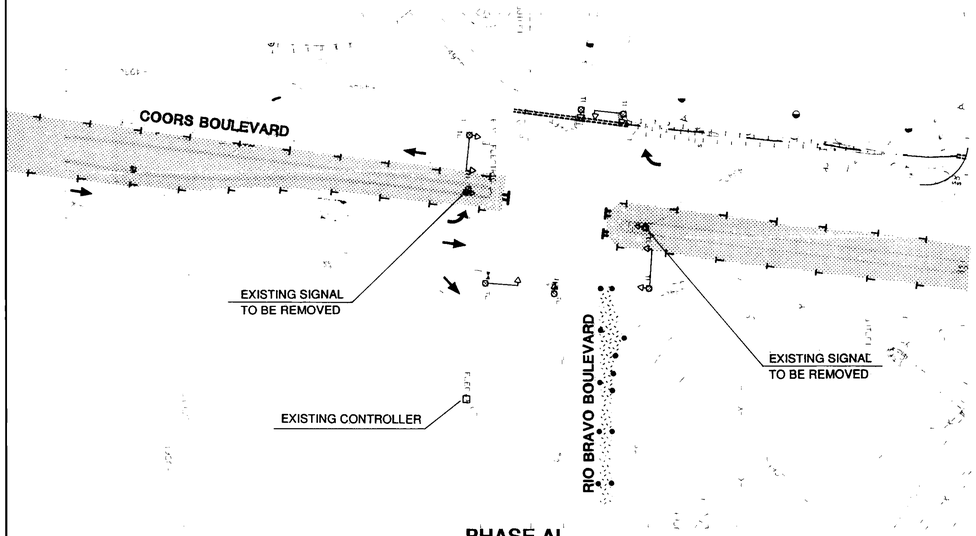
## RIO BRAVO WEST EXTENSION
## COUNTY OF BERNALILLO

**CONSTRUCTION SEQUENCING**
**PHASE B**

Connell Fleming West Inc

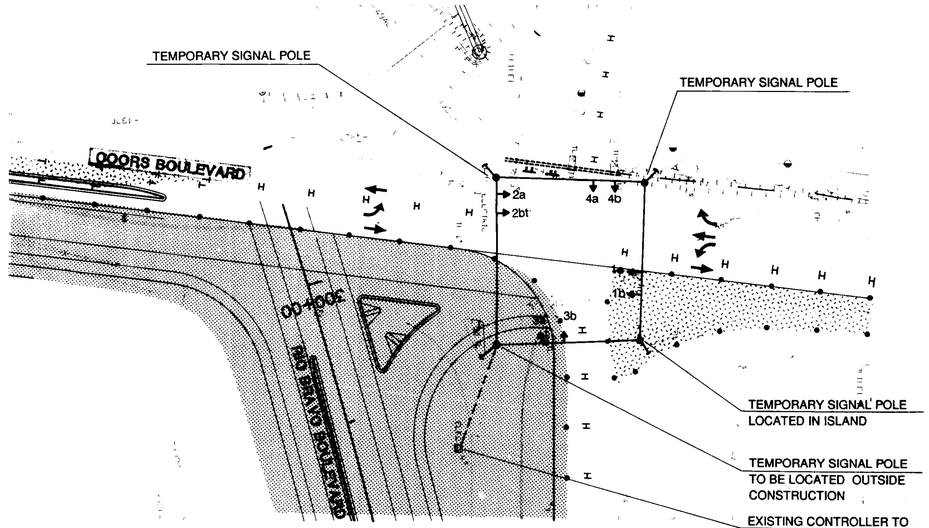
AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 8-16 |




**PHASE AI**

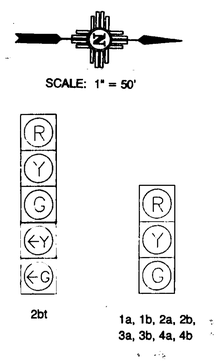
**Existing Signal Equipment to be Used**



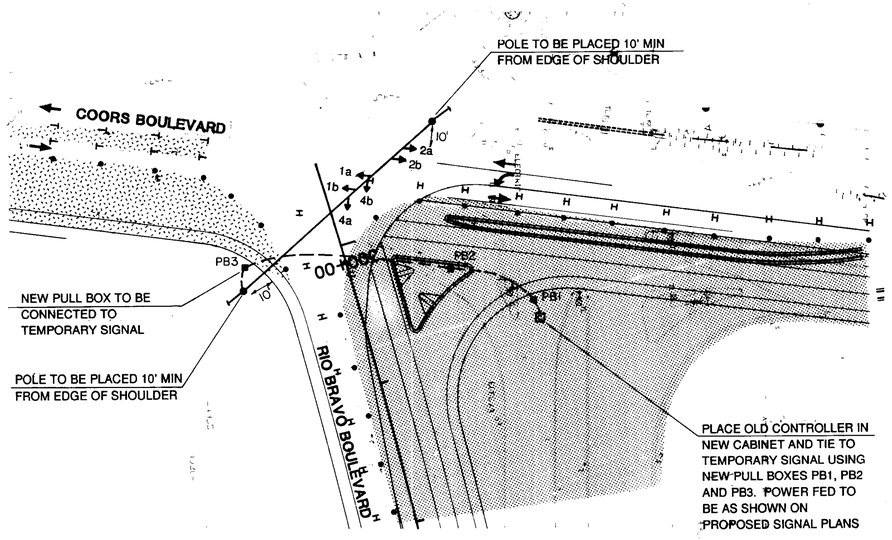

**PHASE AII**

**Span Wire Signal**

SCALE: 1" = 50'

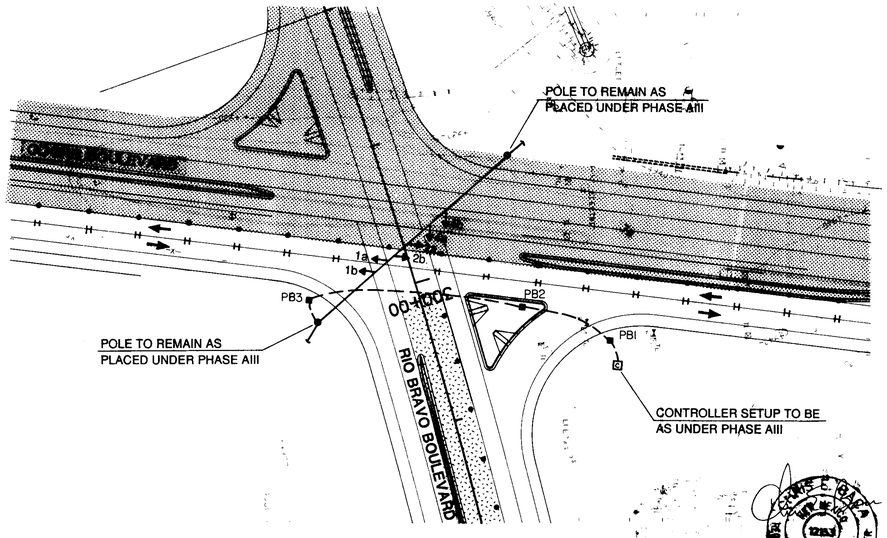



**SIGNAL HEAD DETAILS**




**PHASE AIII**

**Span Wire Signal**




**PHASE AIV**

**Span Wire Signal**

**LEGEND**

- CONSTRUCTION AREA
- AREA CLOSED TO TRAFFIC

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

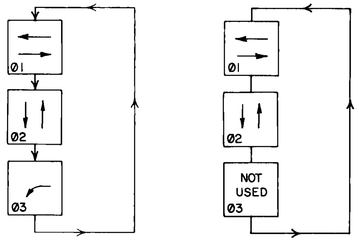
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

**TEMPORARY SIGNAL LAYOUT**

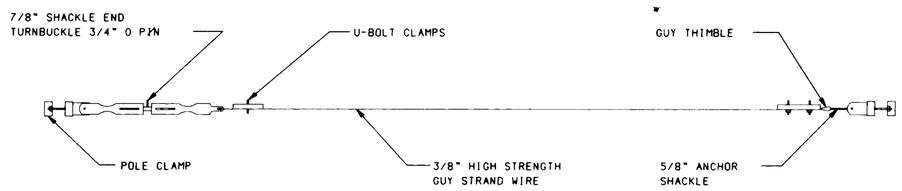
N.M. PROJECT NO. SDM-4008(208) SHEET 8-16

EXISTING SIGNAL PHASING TO BE USED



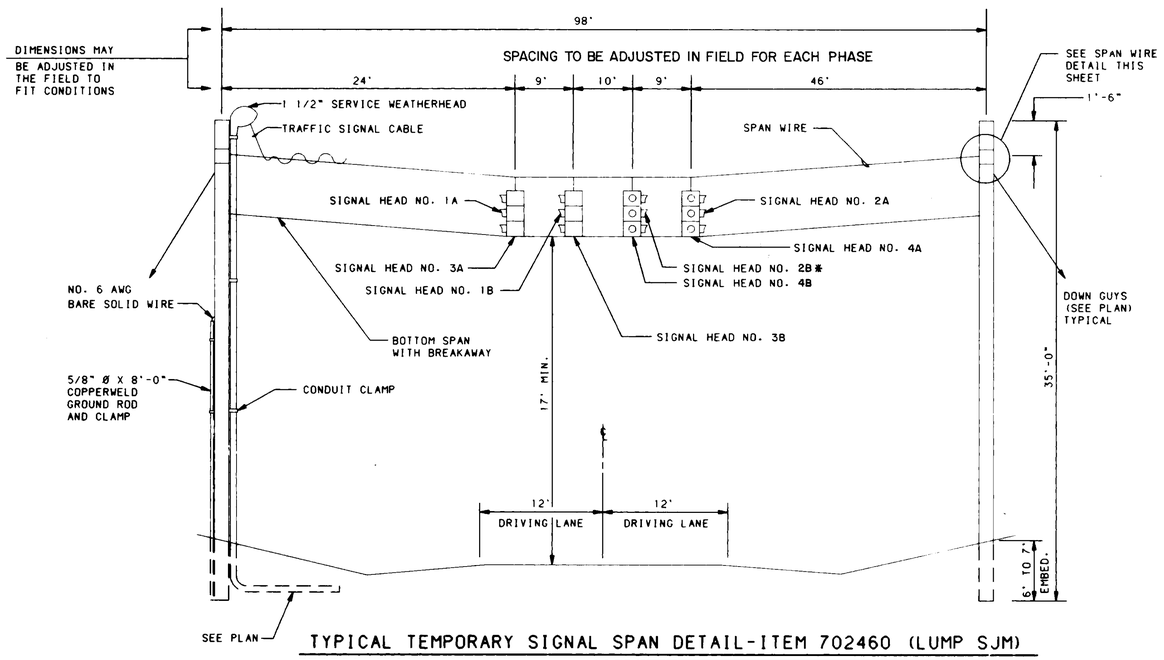

PHASE AI | PHASE AII | PHASES AIII & AIV

## SIGNAL PHASING




## SPAN WIRE DETAIL

NOT TO SCALE




## TYPICAL TEMPORARY SIGNAL SPAN DETAIL-ITEM 702460 (LUMP SJM)

NOT TO SCALE

* UNDER PHASE AII THIS ASSEMBLY SHALL BE A 5-SECTION. MINIMUM CLEARANCE MUST BE MAINTAINED.

## FUNCTION CHART

| CONDUCTOR | BASE COLOR | TRACER | (RING 1) FUNCTION | FIELD CONNECTION |
|---|---|---|---|---|
| 1. | BLACK | - | SPARE | |
| 2. | WHITE | - | SPARE | |
| 3. | RED | - | Ø1 RED | 1A,1B,2A,2B |
| 4. | GREEN | - | Ø1 GREEN | 1A,1B,2A,2B |
| 5. | ORANGE | - | Ø1 YELLOW | 1A,1B,2A,2B |
| 6. | BLUE | - | SPARE | |
| 7. | WHITE | BLACK | SPARE | |
| 8. | RED | BLACK | Ø2 RED | 3A,3B,4A,4B |
| 9. | GREEN | BLACK | Ø2 GREEN | 3A,3B,4A,4B |
| 10. | ORANGE | BLACK | Ø2 YELLOW | 3A,3B,4A,4B |
| 11. | BLUE | BLACK | Ø3 LT GREEN | 2BT |
| 12. | BLACK | WHITE | Ø3 LT YELLOW | 2BT |

## TEMPORARY SIGNAL SPAN

| MATERIAL LIST-ITEM 702460 LUMP SUM | ESTIMATED QUANTITY |
|---|---|
| 35' WOOD POLE FULLY TREATED CLASS 5 | 4 EACH |
| EYE BOLT 5/8" | 4 EACH |
| 1-1/2" SERVICE ENTRANCE WEATHERHEAD | 1 EACH |
| CONDUIT CLAMPS | 3 EACH |
| 1-1/2" GALVANIZED RIGID STEEL CONDUIT | 30 LF |
| NIPPLES, ELBOWS AND TEES | AS REQUIRED |
| COPPERWELD 5/8" X 8'-0" GROUND ROD | 1 EACH |
| GROUND ROD CLAMP | 2 EACH |
| NO. 6 BARE COPPER GROUND WIRE | 28 LF |
| 3/8" HIGH STRENGTH GUY WIRE, POLE CLAMPS, TURNBUCKLE THIMBLES, U-BOLT CLAMPS, AND DOWN GUYS | AS REQUIRED |

## NOTES

1. THE INSTALLATION OF THE CONTROLLER CABINET, SIGNAL SPANS, HEADS, WIRING AND ALL MATERIAL NOT SPECIFICALLY CALLED FOR ON THESE PLANS BUT NECESSARY FOR AN OPERATING SYSTEM IN COMPLIANCE WITH THE N.E.C. SHALL BE PROVIDED BY THE CONTRACTOR.
2. ALL SYSTEM MAINTENANCE AND ELECTRICAL ENERGY COSTS SHALL BE PAID BY THE CONTRACTOR.
3. ALL MATERIAL AND INSTALLATION METHODS FOR THE SIGNAL SHALL BE IN CONFORMANCE WITH THE APPLICABLE PARTS OF THE NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPT. STANDARD SPECIFICATIONS.
4. SIGNAL TIMING SHALL BE APPROVED BY THE PROJECT MANAGER.
5. IN THE EVENT OF ACCIDENTAL DAMAGE TO THE SIGNAL SYSTEM OR POWER OUTAGE, SHALL PROVIDE FLAGGERS OR TEMPORARY STOP SIGNS FOR THE DURATION OF PERIOD OF NON-OPERATION TO CONTROL TRAFFIC.

## FLASH CONDITION

YELLOW BALL HEADS 1A,1B,2A,2B
RED BALL HEADS 3A,3B,4A,4B

ALL RED FLASH MAY BE REQUIRED AS DIRECTED BY THE PROJECT MANAGER.

## BACK UP TIME SETTING

| | Ø1 | Ø2 | Ø3 |
|---|---|---|---|
| MINIMUM INITIAL | 3 | 3 | 3 |
| VEHICLE EXTENSION | 1.5 | 1.5 | 1.5 |
| MAXIMUM 1 | 30 | 30 | 15 |
| MAXIMUM 2 | 40 | 40 | 15 |
| YELLOW CHANGE | 3.0 | 3.0 | 3.0 |
| RED CLEAR | 2.0 | 2.0 | 0 |
| WALK | 0 | 0 | 0 |
| PEDESTRIAN CLEAR | 0 | 0 | 0 |

## INITIALIZATION

PHASE 1 YELLOW CLEARANCE INTERVAL

| NO. | DESCRIPTION | DATE | BY |
|---|---|---|---|
| 3 | | | |
| 2 | | | |
| 1 | | | |

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

TRAFFIC DESIGN SECTION

TEMPORARY SIGNAL SPAN DETAILS

NO SCALE

MAY 1, 1992

Connell Fleming West Inc

AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 8-18 |

| SIGN CODE | NO. OF SIGNS | TOTAL SIGN AREA SQ.FT. | POST LENGTHS | | | | MOUNTING REQUIREMENTS | | | | | | BASE POSTS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | FLANGED CHANNEL | | | DRIVEDOWN POST 0.1345 THICK | | PORTABLE SIGN SUPPORT | | |
| | | | LEFT | CTR. | RIGHT | TOTAL | 2.25 LB./FT. | 2.75 LB./FT. | 3.0 LB./FT. | 2-3/16 x 2-3/16 | 2-1/2 x 2-1/2 | | NO. | TOTAL LENGTH |
| PHASE AI | | | | | | | | | | | | | | |
| G20-2-60 | 2 | 20 | 11 | | 11 | 44 | ✓ | | | | | | 4 | 14 |
| R1-2-36 | 2 | 9 | | 11 | | 22 | ✓ | | | | | | 2 | 7 |
| R2-1-36-35 | 2 | 24 | 11 | | 11 | 44 | | ✓ | | | | | 4 | 14 |
| R2-5a-36 | 2 | 24 | 11 | | 11 | 44 | | ✓ | | | | | 4 | 14 |
| R3-7R-30 | 4 | 12 | | 11 | | 44 | | ✓ | | | | | 4 | 14 |
| R11-6-48 | 9 | 90 | | | | * | | | | | | | | |
| W1-6-48 | 5 | 40 | | | | * | | | | | | | | |
| W4-1-48 | 1 | 16 | 11 | | 11 | 22 | | | | | | | 2 | 7 |
| W4-2L-48 | 2 | 32 | 11 | | 11 | 44 | | | ✓ | | | | 4 | 14 |
| W20-1a-48' | 4 | 64 | 11 | | 11 | 88 | | | ✓ | | | | 8 | 28 |
| W20-1-48-1MILE | 2 | 32 | 11 | | 11 | 44 | | | ✓ | | | | 4 | 14 |
| W20-1-48-½ MILE | 2 | 32 | 11 | | 11 | 44 | | | ✓ | | | | 4 | 14 |
| W20-1-48-1500' | 2 | 36 | 11 | | 11 | 44 | | | ✓ | | | | 4 | 14 |
| W20-5L-48-½ MILE | 2 | 32 | 11 | | 11 | 44 | | | ✓ | | | | 4 | 14 |
| W20-5L-48-1500' | 2 | 32 | 11 | | 11 | 44 | | | ✓ | | | | 4 | 14 |
| R2-1-36-45 | 2 | 24 | 11 | | 11 | 44 | | | | | | | 4 | 14 |
| PANEL (SINGLE) | 58 | | | | | | | | | | | | | |
| TYPE H DRUM | 88 | | | | | | | | | | | | | |
| B1-1R-96 | 12 | | | | | | | | | | | | | |
| SEQ. ARROW | 2 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| TOTAL - AI | | 513 | | | | 616 | | | | | | | | 196 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| PHASE AII | | | | | | | | | | | | | | |
| G20-2-60 | (2) 1 | (20) 10 | 11 | | 11 | (44) 22 | ✓ | | | | | | (4) 2 | (14) 7 |
| M4-10L-48 | 1 | 6 | | | | | | | | | | | | |
| R2-1-36-35 | (2) 2 | (24) 24 | 11 | | 11 | (44) 44 | | ✓ | | | | | (4) 4 | (14) 14 |
| R2-5a-36 | (2) 2 | (24) 24 | 11 | | 11 | (44) 44 | | ✓ | | | | | (4) 4 | (14) 14 |
| R3-2-30 | 2 | 12.5 | | 11 | | 22 | ✓ | | | | | | 2 | 7 |
| | | | | | | | | | | | | | | |
| R4-7b-24 | 3 | 15 | | 8 | | 24 | | ✓ | | | | | 2 | 7 |
| R11-2-48 | 3 | 30 | 11 | | 11 | 66 | ✓ | | | | | | 6 | 21 |
| R11-6-48 | (1) | (10) | | | | * | | | | | | | | |
| W1-4L-48 | 1 | 16 | 11 | | 11 | 22 | | | ✓ | | | | 2 | 7 |
| W1-6-48 | (3) | (24) | | | | * | | | | | | | | |
| W1-4R-48 | 1 | 16 | 11 | | 11 | 22 | | | ✓ | | | | 2 | 7 |
| W4-2L-48 | 1(2) | 16(32) | 11 | | 11 | 22(44) | | | ✓ | | | | 2(4) | 7(14) |
| W4-2R-48 | 1 | 16 | 11 | | 11 | 22 | | | ✓ | | | | 2 | 7 |
| W4-3R-48 | 1 | 16 | 11 | | 11 | 22 | | | ✓ | | | | 2 | 7 |
| W6-3-48 | 6 | 96 | 11 | | 11 | 132 | | | ✓ | | | | 12 | 42 |
| W13-1-24-25 | 2 | 8 | | | | * | | | | | | | | |
| W20-1a-48 | 3(4) | 48(64) | 11 | | 11 | 66(88) | | | ✓ | | | | 6(8) | 21(28) |
| W20-1-48-1MILE | (1) | (16) | 11 | | 11 | (22) | | | ✓ | | | | (2) | (7) |
| W20-5L-48-½ MILE | 1(2) | 16(32) | 11 | | 11 | 22(44) | | | ✓ | | | | 2(4) | 7(14) |
| W20-5R-48-½ MILE | 1 | 16 | 11 | | 11 | 22 | | | ✓ | | | | 2 | 7 |
| W20-5L-48-15 | 1(2) | 16(32) | 11 | | 11 | 22(44) | | | ✓ | | | | 2(4) | 7(14) |
| W20-5R-48-15 | 1 | 16 | 11 | | 11 | 22 | | | | | | | 2 | 7 |
| PANEL (SINGLE) | (40) | | | | | | | | | | | | | |

| SIGN CODE | NO. OF SIGNS | TOTAL SIGN AREA SQ.FT. | POST LENGTHS | | | | MOUNTING REQUIREMENTS | | | | | | BASE POSTS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | FLANGED CHANNEL | | | DRIVEDOWN POST 0.1345 THICK | | PORTABLE SIGN SUPPORT | | |
| | | | LEFT | CTR. | RIGHT | TOTAL | 2.25 LB./FT. | 2.75 LB./FT. | 3.0 LB./FT. | 2-3/16 x 2-3/16 | 2-1/2 x 2-1/2 | | NO. | TOTAL LENGTH |
| PHASE AII (CONT.) | | | | | | | | | | | | | | |
| PANEL (BACK TO BACK) | 92 | | | | | | | | | | | | | |
| TYPE H DRUM | (88) 206 | | | | | | | | | | | | | |
| B1-1L-96 | 4 | | | | | | | | | | | | | |
| B1-1R-96 | (4) | | | | | | | | | | | | | |
| SEQ. ARROW | (2) 1 | | | | | | | | | | | | | |
| TOTAL-AII | | 451.5 | | | | 610 | | | | | | | | 196 |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| PHASE AIII | | | | | | | | | | | | | | |
| G20-2-60 | (3) | (30) | 11 | | 11 | (66) | ✓ | | | | | | (6) | (21) |
| M4-10L-48 | (1) 2 | (6) 12 | | | | * | | | | | | | | |
| R2-1-36-35 | (4) | (48) | 11 | | 11 | (88) | | ✓ | | | | | (8) | (28) |
| R2-5a-36 | (3) | (36) | 11 | | 11 | (66) | | ✓ | | | | | (6) | (21) |
| R3-2-30 | (2) | (125) | | 11 | | (22) | ✓ | | | | | | (2) | (7) |
| W1-4L-48 | (1)2 | (16)32 | 11 | | 11 | (22)44 | | | | | | | (2) 4 | (7)14 |
| R11-2-48 | (3) | (30) | 11 | | 11 | (66) | ✓ | | | | | | (6) | (21) |
| R11-6-48 | (1) | (20) | | | | * | | | | | | | | |
| W1-4R-48 | (1) | (16) | 11 | | 11 | (22) | | | ✓ | | | | (2) | (7) |
| W1-6-48 | (2) | (16) | | | | * | | | | | | | | |
| W4-2L-48 | (1) | (16) | 11 | | 11 | (22) | | | | | | | (2) | (7) |
| W4-2R-48 | (1) 1 | (16) 16 | 11 | | 11 | (22) 22 | | | ✓ | | | | (2) 2 | (7) 7 |
| W6-3-48 | 2(6) | 32(96) | 11 | | 11 | 44(132) | | | ✓ | | | | 4(12) | 14(42) |
| W13-1-24-25 | (2) 2 | (8) 8 | | | | * | | | | | | | | |
| W20-1a-48 | (4) | (64) | 11 | | 11 | (88) | | | ✓ | | | | (8) | (28) |
| W20-1-48-1MILE | (2) | (32) | 11 | | 11 | (44) | | | ✓ | | | | (4) | (14) |
| W20-5L-48-½ MILE | (1) | (16) | 11 | | 11 | (22) | | | ✓ | | | | (2) | (7) |
| W20-5R-48-½ MILE | (1) 1 | (16) 16 | 11 | | 11 | (22) 22 | | | ✓ | | | | (2) 2 | (7) 7 |
| W20-5L-48-15 | (1) | (16) | 11 | | 11 | (22) | | | ✓ | | | | (2) | (7) |
| W20-5R-48-15 | 1(1) | 16(16) | 11 | | 11 | 22(22) | | | ✓ | | | | 2(2) | 7(7) |
| R1-1-48 | 1 | 16 | 11 | | 11 | 22 | | | ✓ | | | | 2 | 7 |
| PANEL (SINGLE) | (38) | | | | | | | | | | | | | |
| PANEL (BACK TO BACK) | (92) 15 | | | | | | | | | | | | | |
| TYPE H DRUM | (286) 56 | | | | | | | | | | | | | |
| B1-1L-96 | (3) | | | | | | | | | | | | | |
| B1-1R-96 | (1) | | | | | | | | | | | | | |
| SEQ. ARROW | (3) | | | | | | | | | | | | | |
| R4-7b-24 | (1) | (5) | | 8 | | (8) | | | | | | | | |
| TOTAL-AIII | | 148 | | | | 176 | | | | | | | | 56 |

< > SIGN(S) AND/OR SUPPORT(S) USED IN OTHER CONSTRUCTION PHASE(S). NO ADDITIONAL PAYMENT THEREFORE.

* NO ADDITIONAL POST NEEDED. SIGN TO BE MOUNTED ON COMMON POST WITH ANOTHER SIGN.

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

**CONSTRUCTION SIGNING**

**QUANTITIES**

Gannett Fleming West Inc

AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 8-19 |

| SIGN CODE | NO. OF SIGNS | TOTAL SIGN AREA SQ.FT. | POST LENGTHS | | | | MOUNTING REQUIREMENTS | | | | | | BASE POSTS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | FLANGED CHANNEL | | | DRIVEDOWN POST 0.1345 THICK | | PORTABLE SIGN SUPPORT | | |
| | | | LEFT | CTR. | RIGHT | TOTAL | 2.25 LB./FT. | 2.75 LB./FT. | 3.0 LB./FT. | 2-3/16 x 2-3/16 | 2-1/2 x 2-1/2 | | NO. | TOTAL LENGTH |
| PHASE AIII | | | | | | | | | | | | | | |
| G20-2-60 | (2) | (20) | 11 | | 11 | (44) | ✓ | | | | | | (4) | (14) |
| R1-2-36 | (1) | (4.5) | | 11 | | (11) | ✓ | | | | | | (1) | (3.5) |
| R2-1-36-35 | (3) | (36) | 11 | | 11 | (66) | | ✓ | | | | | (6) | (21) |
| R2-52-36 | (2) | (24) | 11 | | 11 | (44) | | ✓ | | | | | (4) | (14) |
| R3-2-30 | (1) | (4) | | 11 | | (11) | ✓ | | | | | | (1) | (3.5) |
| R3-7L-30 | 2 | 12 | | 11 | | 22 | | ✓ | | | | | 2 | 7 |
| M4-10L-48 | (1) | (6) | | | | * | | | | | | | | |
| R4-7b-24 | (2) | (10) | | 11 | | (22) | | ✓ | | | | | (2) | (7) |
| R11-2-48 | 1 (3) | 5(15) | 11 | | 11 | 22(66) | ✓ | | | | | | 2(6) | 7(21) |
| R11-6-48 | (2) | (20) | | | | * | | | | | | | | |
| W1-4L-48 | (1) | (16) | 11 | | 11 | (22) | | | ✓ | | | | (2) | (7) |
| W1-4R-48 | (1) | (16) | 11 | | 11 | (22) | | | ✓ | | | | (2) | (7) |
| W1-6-48 | (2) | (16) | | | | * | | | | | | | | |
| W4-2L-48 | (1) | (16) | 11 | | 11 | (22) | | | ✓ | | | | (2) | (7) |
| W4-2R-48 | (1) | (16) | 11 | | 11 | (22) | | | ✓ | | | | (2) | (7) |
| W6-3-48 | (4) | (64) | 11 | | 11 | (88) | | | ✓ | | | | (8) | (28) |
| W13-1-24-25 | (2) | (8) | | | | * | | | | | | | | |
| W20-1a-48 | (5) | (80) | 11 | | 11 | (110) | | | ✓ | | | | (10) | (35) |
| W20-1-48-1 MILE | (2) | (32) | 11 | | 11 | (44) | | | ✓ | | | | (4) | (14) |
| W20-1-48-½ MILE | (1) | (16) | 11 | | 11 | (22) | | | ✓ | | | | (2) | (7) |
| W20-1-48-15 | (2) | (32) | 11 | | 11 | (44) | | | ✓ | | | | (4) | (14) |
| W20-5L-48-½ MILE | (1) | (16) | 11 | | 11 | (22) | | | ✓ | | | | (2) | (7) |
| W20-5R-48-½ MILE | (1) | (16) | 11 | | 11 | (22) | | | ✓ | | | | (2) | (7) |
| W20-5L-48-15 | (1) | (16) | 11 | | 11 | (22) | | | ✓ | | | | (2) | (7) |
| W20-5R-48-15 | (1) | (16) | 11 | | 11 | (22) | | | ✓ | | | | (2) | (7) |
| R1-1-48 | (1) | (16) | 11 | | 11 | (22) | | | ✓ | | | | (2) | (7) |
| PANEL (BACK TO BACK) | (60) | | | | | | | | | | | | | |
| TYPE H DRUM | (168) | | | | | | | | | | | | | |
| B1-1L-96 | (3) | | | | | | | | | | | | | |
| B1-1(RL)-96 | 3 | | | | | | | | | | | | | |
| B1-1R-96 | (2) | | | | | | | | | | | | | |
| TOTAL - AIV | | 17 | | | | 44 | | | | | | | | 14 |

| SIGN CODE | NO. OF SIGNS | TOTAL SIGN AREA SQ.FT. | POST LENGTHS | | | | MOUNTING REQUIREMENTS | | | | | | BASE POSTS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | FLANGED CHANNEL | | | DRIVEDOWN POST 0.1345 THICK | | PORTABLE SIGN SUPPORT | | |
| | | | LEFT | CTR. | RIGHT | TOTAL | 2.25 LB./FT. | 2.75 LB./FT. | 3.0 LB./FT. | 2-3/16 x 2-3/16 | 2-1/2 x 2-1/2 | | NO. | TOTAL LENGTH |
| PHASE B | | | | | | | | | | | | | | |
| G20-2-60 | (1) | (10) | 11 | | 11 | (22) | ✓ | | | | | | (2) | (7) |
| R3-2-30 | (2) | (4) | | 11 | | (11) | ✓ | | | | | | (1) | (3.5) |
| R11-2-48 | (3) | (30) | | | | * | | | | | | | | |
| W1-6-48 | (1) | (8) | | | | * | | | | | | | | |
| W20-1-48-15 | (1) 1 | (16) 16 | 11 | | 11 | (22) 22 | | | ✓ | | | | (2) 2 | (7) 7 |
| W20-4-48-10 | 2 | 32 | 11 | | 11 | 44 | | | ✓ | | | | 4 | 14 |
| W20-7a-48 | 2 | 32 | 11 | | 11 | 44 | | | ✓ | | | | 4 | 14 |
| W20-1a-48 | (3) | (48) | 11 | | 11 | (66) | | | ✓ | | | | (6) | (21) |
| TYPE H DRUM | (22) | | | | | | | | | | | | | |
| B1-1L-96 | (2) | | | | | | | | | | | | | |
| B1-1R-96 | (2) | | | | | | | | | | | | | |
| B1-1(RL)-96 | (3) | | | | | | | | | | | | | |
| TOTAL - B | | 80 | | | | 110 | | | | | | | | 84 |
| PROJECT TOTAL | | 1211.5 | | | | 1564 | | | | | | | | 497 |
| USED | | 1212 | | | | 1564 | | | | | | | | 497 |

< > SIGN(S) AND/OR SUPPORT(S) USED IN OTHER CONSTRUCTION PHASE(S). NO ADDITIONAL PAYMENT THEREFORE.

* NO ADDITIONAL POST NEEDED. SIGN TO BE MOUNTED ON COMMON POST WITH ANOTHER SIGN.

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

**CONSTRUCTION SIGNING**

**QUANTITIES**

N.M. PROJECT NO. SDM-4008(208) SHEET 8-19

# SUMMARY OF QUANTITIES

| ITEM NO. | BID ITEM | UNITS | | TOTAL |
|---|---|---|---|---|
| 606600 | TEMPORARY CONCRETE WALL BARRIER | LIN. FT. | | 0 |
| 606619 | RESETTING OF PRECAST | LIN. FT. | | 0 |
| | WALL BARRIER | | | |
| 606620 | STATE FURNISHED CONCRETE | LIN. FT. | | 0 |
| | WALL BARRIER | | | |
| 630100 | MULTIPLE GLARE SHIELD | LIN. FT. | | 0 |
| 702000 | CONSTRUCTION SIGNING | SQ. FT. | | 1212 |
| 702100 | STEEL POSTS AND BASE POSTS | LIN. FT. | | 2061 |
| | FOR CONSTRUCTION SIGNING | | | |
| 702110 | PORTABLE SIGN SUPPORT | EACH | | 0 |
| 702238 | BARRICADE, TYPE III (8 FT) | EACH | | 19 |
| 702310 | VERTICAL PANEL, SINGLE TYPE | EACH | | 58 |
| 702320 | VERTICAL PANEL, BACK TO BACK | EACH | | 107 |
| 702400 | CONSTRUCTION TRAFFIC MARKERS | EACH | | 0 |
| 702526 | CHANNELIZATION DEVICE | EACH | | 350 |
| | TYPE "DRUM" | | | |
| 702600 | SEQUENTIAL ARROW DISPLAY | EACH | | 3 |
| 702600 | PORTABLE CHANGEABLE MSG. SIGN | EACH | | 0 |
| 703200 | FLEXIBLE TRAFFIC MARKER | EACH | | 0 |
| 703300 | REFLECTIVE BARRIER DELINEATOR | EACH | | 0 |
| 704000 | REFLECTORIZED PAINTED MARKINGS | LIN. FT. | | 6100 |
| 704100 | REMOVABLE MARKING TAPE | LIN. FT. | | 0 |
| | | | | |
| 717110 | TEMPORARY REFLECTIVE PAVEMENT | EACH | | 13 |
| | MARKER TYPE "TD" | | | |
| 720100 | SAND-BARREL VEHICULAR IMPACT | EACH | | 0 |
| | ATTENUATOR UNIT | | | |
| 721000 | REMOVAL OF PAVEMENT STRIPE | LIN. FT. | | 1000 |
| * | CLEANING OF REFLECTIVE SURFACES | SQ. FT. | | 0 |
| | ON TRAFFIC CONTROL DEVICES | | | |
| | | | | |
| | | | | |

*-INCIDENTAL TO ITEM 618001 - TRAFFIC CONTROL MANAGEMENT

DESIGNED BY _____ CHECKED BY _____ DRAWN BY _____

## NOTES:

1. TRAFFIC CONTROL PLANS AND QUANTITIES MAY VARY AS FIELD CONDITIONS DICTATE. THE CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES USED. PLACING, RELOCATING AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE PROJECT MANAGER ARE TO BE INCIDENTAL TO THE UNIT BID PRICE.
2. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION - SECTION 702 (1994 EDITION) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (1988 EDITION) AND CURRENT REVISIONS.
3. ALL CONSTRUCTION SIGNING SHALL BE BLACK ON REFLECTIVE ORANGE UNLESS OTHERWISE SPECIFIED. ALL CONSTRUCTION BARRICADES AND CHANNELIZATION DEVICES SHALL BE ORANGE ON WHITE REFLECTORIZED UNLESS OTHERWISE SPECIFIED.
4. BID ITEM NO. 702100 - (STEEL POSTS AND BASE POSTS FOR CONST. SIGNS). THE CONTRACTOR SHALL HAVE THE OPTION OF SUPPLYING EITHER THE FLANGED CHANNEL OR THE DRIVEDOWN POST AS PER NEW MEXICO STANDARD SERIALS - SN 75-1, TBAC-001-10 & TBAC-002-11.
5. BID ITEM NO. 702238 - (TYPE III BARRICADE - 8'). ATTACHED TYPE "A" FLASHING BEACONS AND PLYWOOD SIGNS ARE TO BE INCIDENTAL TO BID PRICE.
6. BID ITEM NO. 702310 & 702320 - (VERTICAL PANELS, SINGLE OR BACK TO BACK 8" x 24"). VERTICAL PANELS SHALL BE ORANGE ON WHITE REFLECTORIZED SHEETING, .080" MIN. 6061 T-6. PANELS ARE TO BE MOUNTED ON DRIVEDOWN POST EITHER 3' DRIVE OR ON STANCHION.
7. FLAGGING SHALL BE PROVIDED FOR SAFETY AND/OR AS DIRECTED BY THE PROJECT MANAGER. FLAGGERS SHALL USE STOP/SLOW PADDLES (18"x18" MIN) IN ACCORDANCE WITH THE MUTCD. THE FLAGGER, APPLICABLE SIGNS AND OTHER RELATED ITEMS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, NO PAYMENT OR MEASUREMENT WILL BE MADE THEREFORE.
8. BID ITEM NO. 702525 - (CHANNELIZATION DEVICE TYPE "DRUM"). SHALL BE EQUIPPED WITH BEACON ONLY ON CHANNELIZATION TAPERS, AS SPECIFIED IN THE STANDARD AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 702.224(a), 1994 EDITION.
9. THE PROVISIONS AS INCLUDED IN THE PLANS AND SPECIFICATIONS FOR HANDLING AND CONTROLLING TRAFFIC DURING CONSTRUCTION OF THE PROJECT MAY BE CHANGED BY THE PROJECT MANAGER. IF, BECAUSE OF FIELD CONDITIONS AS ACTUALLY ENCOUNTERED, SUCH CHANGES WILL BE MADE BY WRITTEN INSTRUCTION TO THE CONTRACTOR, AND SHALL BE CONSIDERED AN AMENDMENT TO THE PLANS AND SPECIFICATION AS OF THE DATE OF THE CHANGE.
10. THE CONTRACTOR SHALL SUBMIT ANY PROPOSED CHANGES IN THE TRAFFIC CONTROL PLAN TO THE PROJECT MANAGER AND COUNTY TRAFFIC CONTROL MANAGER FOR APPROVAL.
11. NO PAYMENT WILL BE MADE FOR ANY ADDITIONAL COST RESULTING FROM APPROVED TRAFFIC CONTROL PLAN CHANGES REQUESTED BY THE CONTRACTOR.
12. ITEM NO. 704000 - (REFLECTORIZED PAINTED MARKINGS) IS INCLUDED FOR PAVEMENT STRIPING BETWEEN SURFACING LIFTS AS DIRECTED BY THE PROJECT MANAGER.
13. BID ITEM - NO. 720100 - (SAND BARREL VEHICULAR IMPACT ATTENUATOR UNIT), SHALL BECOME THE PROPERTY OF THE STATE OF NEW MEXICO AT COMPLETION OF CONSTRUCTION AND SHALL NOT REVERT TO THE CONTRACTOR, UNLESS OTHERWISE SPECIFIED. THIS ITEM SHALL BE DELIVERED AND STOCKPILED AT LOCATIONS DIRECTED BY THE PROJECT MANAGER.
14. ALL NON-APPLICABLE SIGNING SHALL BE REMOVED OR COVERED COMPLETELY WITH AN OPAQUE NON-LIGHT TRANSMITTING MATERIAL. ALL REMAINING, NON-APPLICABLE TRAFFIC CONTROL DEVICES ARE TO BE REMOVED AND STORED AT LOCATIONS DESIGNATED BY THE PROJECT MANAGER.
15. BID ITEM NO. 6064600 - (TEMPORARY CONCRETE WALL BARRIER - REFERRED TO AS CWB). ALL PRECAST CWB PROVIDED BY THE CONTRACTOR SHALL BE NEW CWB COMPLETE WITH SHOP DRAWINGS. PRECAST CWB AND ALL APPURTENANCES (I.E. CONNECTING PINS,GLARE SHIELDS, ETC.) WHEN USED FOR TRAFFIC CONTROL PURPOSES, SHALL BECOME THE PROPERTY OF THE STATE OF NEW MEXICO AT THE COMPLETION OF THE PROJECT AND SHALL NOT REVERT TO THE CONTRACTOR UNLESS OTHERWISE SPECIFIED.

    PRECAST CWB SHALL BE FABRICATED IN 10' UNITS TO THE DIMENSIONS SHOWN ON PLANS. ALL PRECAST CWB UTILIZED IN THE WORK SHALL BE OF SAME LENGTH AND DESIGN, INTERMIXING WILL NOT BE ALLOWED. WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF SECTION 510 - PORTLAND CEMENT CONCRETE, SECTION 504.21 - STEEL REINFORCEMENT.

    WHEN NEW PRECAST CWB IS CALLED FOR ON PLAN, THE CWB SHALL BE DELIVERED TO THE DESIGNATED AREA AND SITE AT COMPLETION OF WORK. CONTRACTOR IS TO UNLOAD AND STOCKPILE PRECAST CWB AS DIRECTED BY THE PROJECT MANAGER. HAULING AND STOCKPILING OF NEW PRECAST CWB TO DESIGNATED AREA AND SITE SHALL BE INCIDENTAL TO THE ITEM FOR PRECAST CWB.
16. THE FOLLOWING PROCEDURES SHALL GOVERN ALL TRAFFIC CONTROL PLANS INVOLVING SINGLE LANE TRAFFIC. THE REGULATORY AND ADVISORY SPEED LIMIT POSTINGS, AS PART OF THESE TRAFFIC CONTROL PLANS ARE SHOWN ON THE SIGN FACE DETAIL SHEET. FOR VARIATION IN THE TRAFFIC CONTROL PLAN, AN ENGINEERING STUDY SHALL BE DONE AT THE PROJECT SITE. THE ENGINEERING STUDY SHALL BE PERFORMED BY THE DISTRICT TRAFFIC ENGINEER, IN ACCORDANCE WITH SECTION 2B-10 OF THE 1988 EDITION OF THE MUTCD AND CURRENT REVISIONS.
17. EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE STANDARD HIGHWAY SIGNS MANUAL (1988 EDITION) FOR PROPER ARRANGEMENT, SPACING OF LETTERS, LETTER HEIGHT, LETTER SERIES, SYMBOLS, AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON THE PLANS.

AVID ENGINEERING, INC.

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 8-20 |

CHRIS E. BRAY NEW MEXICO 12065 REGISTERED PROFESSIONAL ENGINEER 6-27-96

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

**NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT**

**RIO BRAVO WEST EXTENSION COUNTY OF BERNALILLO**

CONSTRUCTION SIGNING QUANTITIES

NM PROJECT NO. SDM-4008(208) SHEET NO. 8-20

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 9-1 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

SCALE: 1" = 50'

60+00

PASEO DEL VOLCAN

BEGIN N.M.P. SDM-4008(208)
B.O.P. STA. 64+00

65+00

W3-1a-36

℄ ROADWAY

4" DASHED YELLOW

RIO BRAVO BLVD. N89°49'05"E

4" SOLID WHITE

℄ SURVEY

℄ STA. 67+00 MATCH LINE THIS SHEET

70+00

SPEED LIMIT 35

R2-1-36-35

75+00

80+00

SPEED LIMIT 45

R2-1-36-45

SPEED LIMIT 55

R2-1-36-55

℄ STA. 81+00 MATCH LINE THIS SHEET

85+00

REDUCED SPEED AHEAD

R2-5a-36

90+00

DO NOT DRIVE ON SHOULDER

R8-10-48

℄ STA. 95+00 MATCH LINE SEE SHEET 9-2

| NO. | DESCRIPTION | DATE | BY |
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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

PERMANENT SIGNING
& STRIPING PLAN

**BID ALTERNATE 3**

Time: 15:5:52
Date: 4/14/1997 LJS
Drawing File: L:\PROJECTS\20164\STD\SRB-9-1

ENGR. FILE :

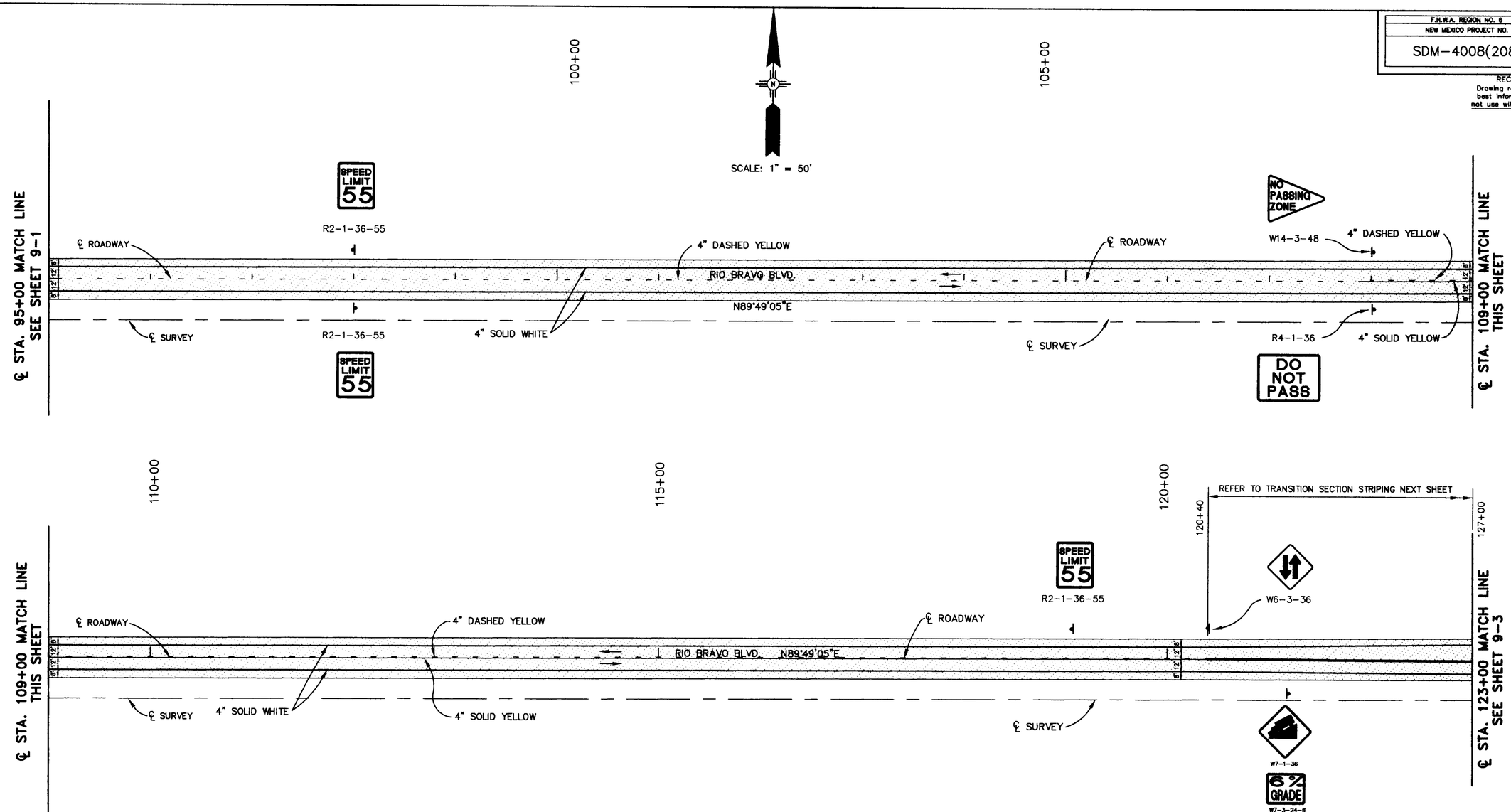
Connell Fleming West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 9-1

| F.H.W.A. REGION NO. 6 | SHEET NO. |
|---|---|
| NEW MEXICO PROJECT NO. | |
| SDM-4008(208) | 9-2 |

RECORD DRAWING
Drawing revised to reflect the best information available. Do not use without field verification.

SCALE: 1" = 50'

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REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

RIO BRAVO WEST EXTENSION
COUNTY OF BERNALILLO

# PERMANENT SIGNING & STRIPING PLAN

**BID ALTERNATE 3**

Time: 10:19:31
Date: 4/6/1997 LJS
Drawing File: L:\PROJECTS\28164\STD\SRB-9-2

Cornell Rosing West, Inc.
ENGINEERS AND PLANNERS

N.M. PROJECT NO. SDM-4008(208) SHEET 9-2