

LEGEND

MATERIALS

CONCRETE
RIP-RAP

LINES

SUBDIVISION BOUNDARY
PROPERTY LINE (PLAN)
PROPERTY LINE (SECTION)
CENTERLINE
EASEMENT LINE
MATCH LINE
SECTION CUT LINE

EARTHWORK

EXISTING NEW
CONTOUR LINE
SPOT ELEVATION
PROJECT / PHASE BOUNDARY
SWALE
DIRECTION OF FLOW

MISCELLANEOUS UTILITIES

GAS LINE
UNDERGROUND TELEPHONE
UNDERGROUND ELECTRICAL
STORM DRAIN
STORM DRAIN MANHOLE
STORM DRAIN INLET

SANITARY SEWER

SANITARY SEWER LINE
SANITARY SEWER MANHOLE
SAS SERVICE CONNECTIONS
SAS CAP OR PLUG
ENCASEMENT

WATER

WATER LINE
WATER SERVICE CONNECTIONS
GATE VALVE
FIRE HYDRANT
BUTTERFLY VALVE
REDUCER
WATER PRESSURE ZONE BOUNDARY

WATER FITTINGS

CAPS AND PLUGS
ELBOW
CROSS
TEE

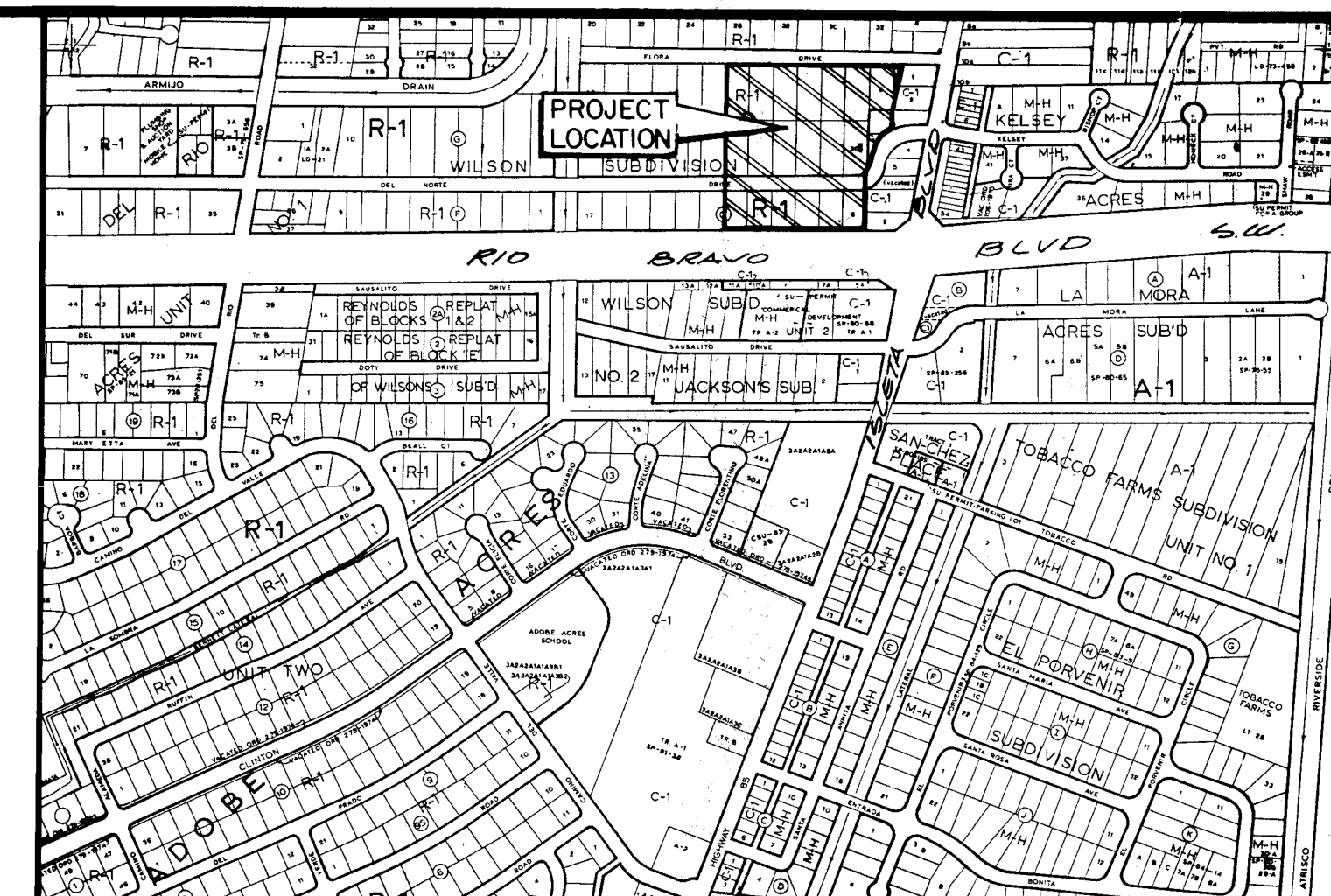
MISCELLANEOUS

CHAINLINK FENCE
FIELD FENCE
COMMON YARD WALL
RETAINING WALL
POWER OR TELEPHONE POLE

CONSTRUCTION PLANS
FOR

RIO BRAVO SHOPPING CENTER
WATER & SANITARY SEWER
LINE EXTENSIONS

BERNALILLO COUNTY, NEW MEXICO
JULY, 1988



VICINITY MAP
SCALE: 1" = 800'

P-12

GENERAL NOTES:

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS - PUBLIC WORKS CONSTRUCTION - 1986. (STANDARD SPECIFICATIONS)
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
- CONTRACTOR SHALL COMPLY WITH SECTION 19 OF THE "STANDARD SPECIFICATIONS".
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- IF CURB IS DEPRESSIONED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEM DIVISION FOR THE EXECUTION OF THE VALVE SHUT-OFF PLAN, NOT LESS THAN TWO (2) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES.

SHEET NO.

INDEX OF DRAWINGS

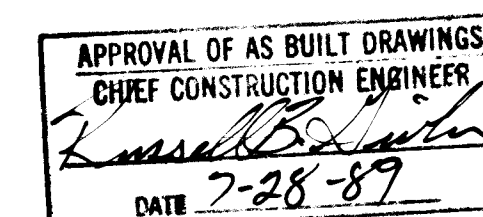
- COVER SHEET, INDEX OF DRAWINGS, VICINITY MAP, GENERAL NOTES, LEGEND
- FINAL PLAT
- 4. GRADING AND DRAINAGE PLAN
- WATER AND SANITARY SEWER SITE PLAN AND BASE LINE PLAN
- LINE "A" SANITARY SEWER AND WATER LINE PLAN AND PROFILE
- LINE "B" WATER LINE PLAN AND PROFILE
- VALVE SHUT-OFF PLAN/TRAFFIC CONTROL DETAILS

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project as determined from survey information provided by Stephen E. Walker, NMPS No. 6401, Walker Surveying Company. All vertical and horizontal dimensions should be field verified prior to use on future projects.

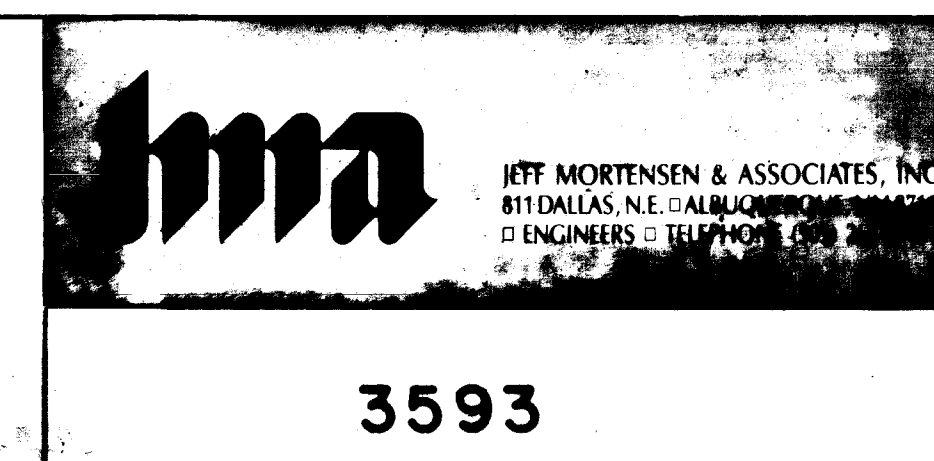
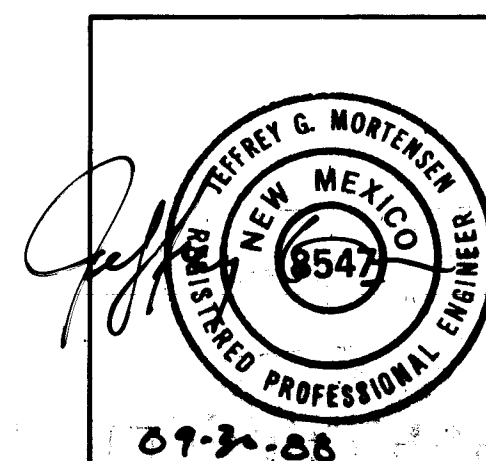
Jeffrey G. Mortensen
NMPE No. 8547

06-16-89 Date

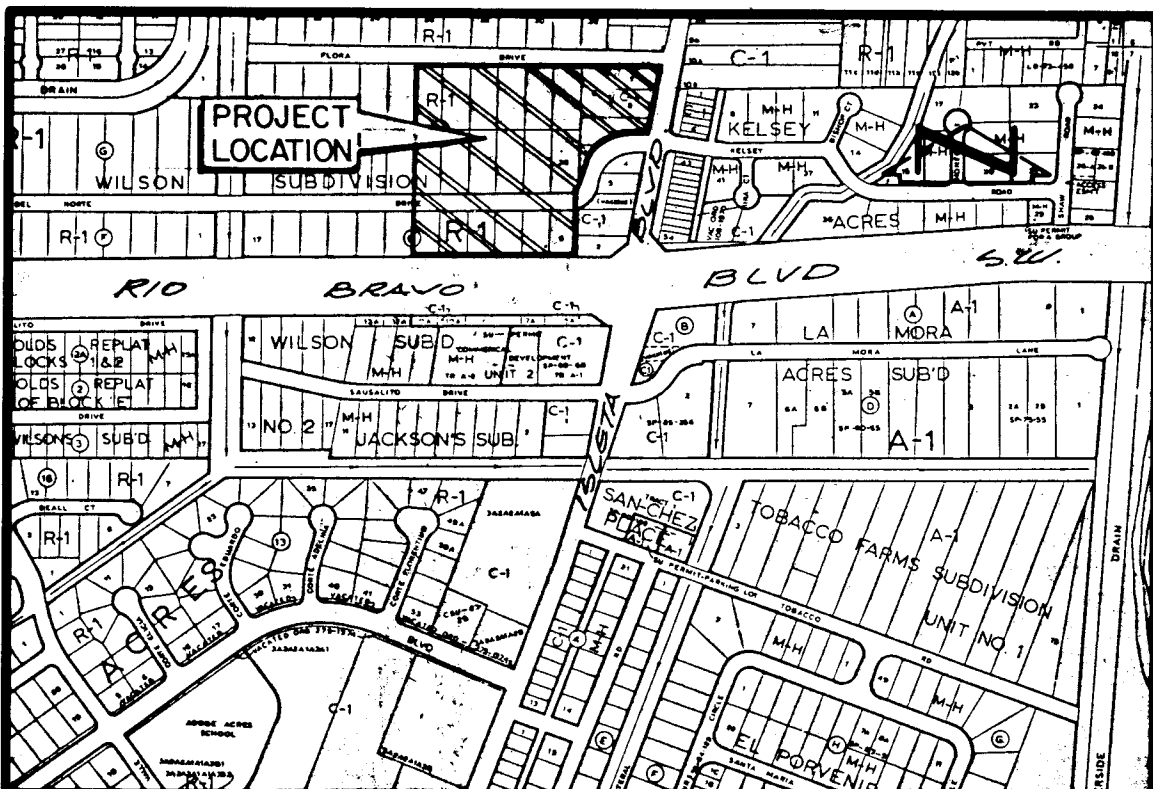


26 35930189

REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
APPROVAL OF REVISIONS							



APPROVED FOR
CONSTRUCTION
3593
SHEET 1 OF 8

VICINITY MAP
SCALE: 1" = 800'

P-12

8884443

PLAT OF
LOTS A,B,C & D, RIO BRAVO CENTER
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER, 1988

3:02 P
C-37
P-142

DESCRIPTION

A certain parcel of land located within Bernalillo County, New Mexico, comprising Lots 1, 2, 6 through 12, inclusive, 25 through 30, inclusive, the northerly remainder of Lot 3, and the westerly remainders of Lots 4 and 5, Block B, and Lots 6 through 11, inclusive, Block C of the Wilson Subdivision, as shown on the plat filed in the Office of the County Clerk of Bernalillo County, New Mexico, on September 4, 1935, Book C, Page 31, together with the adjacent portion of Del Norte Drive S.W. vacated by CRM-88-4 on April 26, 1988, and being more particularly described as follows:

Beginning at the northwest corner of the parcel herein described, being the northwest corner of said Lot 12, Block B, Wilson Subdivision, and also being a point on the south right-of-way line of Flora Vista Drive S.W.; thence N 89°25'48" E a distance of 906.84 feet along said right-of-way line to a point of intersection with the west right-of-way line of Isleta Boulevard S.W.; thence S 09°27'00" W a distance of 259.03 feet along said right-of-way line to a point of intersection with the north right-of-way line of Del Norte Drive S.W.; thence N 80°33'00" W a distance of 50.43 feet along said right-of-way line; thence along the arc of a curve to the left with DELTA = 97°58'12", R = 150.00 feet and L = 256.48 feet along said right-of-way line; thence S 01°28'48" W a distance of 9.42 feet along said right-of-way line; thence along the arc of a curve to the right with DELTA = 52°00'01", R = 90.00 feet and L = 81.68 feet along said right-of-way line; thence S 00°24'57" E a distance of 251.69 feet to a point on the north right-of-way line of Rio Bravo Boulevard S.W.; thence S 89°36'16" W a distance of 99.80 feet along said right-of-way line; thence S 00°32'14" E a distance of 4.72 feet along said right-of-way line; thence along the arc of a curve to the right with DELTA = 02°20'36", R = 10,345.00 feet and L = 423.12 feet (Chord Bearing = S 88°17'29" W, Chord Length = 423.09 feet) along said right-of-way line; thence S 89°27'46" W a distance of 77.18 feet along said right-of-way line; thence N 00°24'48" W a distance of 732.18 feet to the point of beginning and containing 11.9189 acres more or less.

Notes:

- A field survey was performed; corners were found or set as shown.
- No street mileage was created.
- All distances are ground distances.
- Sit located within Section 12, T9N, R1E, N.M.P.M.
- Bearing base is west right-of-way line of Isleta Blvd. S.W. per New Mexico State Highway Department Right-of-way Maps. Bearing = N 09°27'00" E
- Record boundary data shown in parenthesis.
- The purpose of this plat is to eliminate existing common lot lines, show vacated easements and rights-of-way, grant the necessary new easements as shown and create a new plat with four new parcels.
- A blanket private easement for access, utilities and drainage is hereby granted within Lots A, B and C and Lots 1 and 2, Block C, Wilson Subdivision, to serve those lots. Said easement shall conform with the approved site development plan (DRB-88-21). Maintenance of this easement shall be the responsibility of the respective property owner.
- Del Norte Drive S.W. relocation geometry determined from Quiclain Deeds and Documents filed May 26, 1966, Book D804, page 843; Oct. 11, 1966, Book D815, pages 440 to 444, and Apr. 22, 1966, Book D802, pages 157 to 162.
- The above signed owners of Lots A, B and C do hereby agree to assume financial responsibility for the relocation of PNM facilities in conjunction with Vacation Action CRM-88-4 (DRB-88-21) and to grant the easements necessary for said relocations.

John Mya 10/18/88
Public Service Company of New Mexico Date
Joe Dunlop 10-18-88
Gas Company of New Mexico Date
Greg Hunt 10-18-88
Mountain Date
Karen A. Voke 10-18-88
Albuquerque Cable T.V. Date

DEDICATION AND FREE CONSENT

The undersigned owners of the land shown hereon do hereby consent to the subdivision of said land in the manner shown on this plat and do hereby grant the easements shown hereon including the rights of ingress and egress and the right to trim interfering trees.

ROBERT PEIRSON, PRESIDENT, SUNWEST DEVELOPMENT CO., INC. (LOTS A, B & C)
Yenny Dore

VERNON DOAK, SUNWEST BANK OF ALBUQUERQUE (LOT D)

ACKNOWLEDGEMENT

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO)

The foregoing instrument was acknowledged before me this 17th day of October, 1988.

James K. McMillin
Notary Public

APPROVALS: DRB. 88-21

Frank Cloud 10-20-88
Planning Director, City of Albuquerque, N.M. Date
William 10-18-88
Water Utilities, City of Albuquerque, N.M. Date
Frank C. Capron 10-19-88
City Engineer, City of Albuquerque Date
Frank J. Capron 10/20/88
A.M.A.F.C.A. Date
David W. Hammer 10/18/88
Traffic Engineer, City of Albuquerque, N.M. Date
David M. Sten 10-18-88
Parks and Recreation, City of Albuquerque, N.M. Date
Wendy Chit 10/18/88
Chief City Surveyor, City of Albuquerque, N.M. Date
Norman M. Sore 10/19/88
Property Manager, City of Albuquerque, N.M. Date

CERTIFICATION

I, Stephen E. Walker, a registered Professional Surveyor under the laws of the State of New Mexico, do hereby certify that this plat was prepared by me or under my supervision; shows all easements noted in a title report prepared by FIRST AMERICAN TITLE, GF# 56783, PSEP(MYT) GF# 59367, PAUG (MYT); meets the minimum requirements of monumentation and surveys of the Albuquerque Subdivision Ordinance, and is true and correct to the best of my knowledge and belief.

Stephen E. Walker 10-18-88
Stephen E. Walker, N.M.P.S. No. 6404 Date

ACKNOWLEDGEMENT

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO)

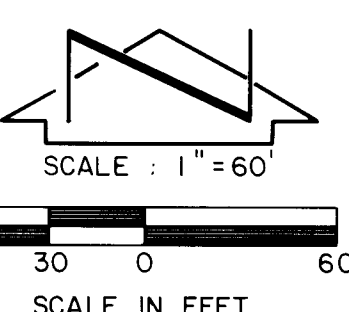
The foregoing instrument was acknowledged before me on this 18th day of October, 1988.

Charles H. Hays
Notary Public



JEFF MORTENSEN & ASSOCIATES, INC.
811 DALLAS, N.E. ALBUQUERQUE, NM 87110
ENGINEERS TELEPHONE (505) 265-5611

SHEET 1 OF 2



FLORA VISTA DRIVE S.W.

CURVE	ARC	DELTA	RADIUS	CHORD LENGTH	CHORD BEARING	TAN LENGTH
C1	81.60	32°00'00"	90.00	78.93	S 27°28'45" W	43.30
C2	15.73	90°00'00"	10.00	14.14	S 41°50'12" W	10.00
C3	13.35	90°00'00"	8.50	12.03	S 45°24'48" W	8.50
C4	26.43	16°40'11"	10.00	26.36	N 61°53'59" E	13.32
C5	15.12	05°44'51"	130.00	16.11	S 71°48'02" E	7.87

8894443

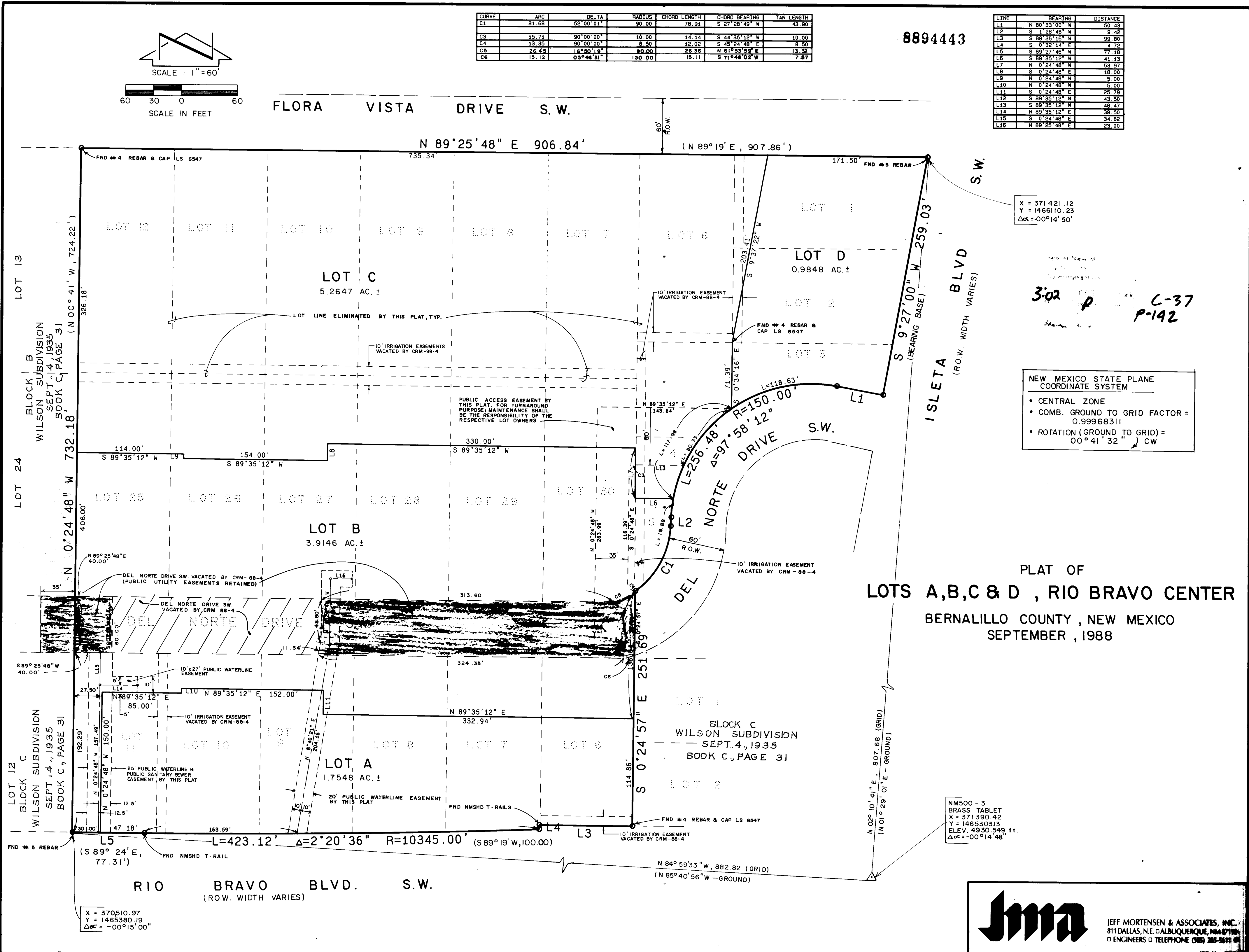
LINE	BEARING	DISTANCE
L1	N 80°33'00" W	50.43
L2	S 1°28'48" W	9.42
L3	S 89°36'16" W	99.80
L4	S 0°32'14" E	4.72
L5	S 89°27'46" W	77.18
L6	S 89°35'12" W	41.33
L7	N 0°24'48" W	732.18
L8	S 0°24'48" E	19.00
L9	N 0°24'48" W	5.00
L10	N 0°24'48" W	5.00
L11	S 0°24'48" E	25.79
L12	S 89°35'12" W	43.56
L13	S 89°35'12" W	48.47
L14	N 89°35'12" E	35.50
L15	S 0°24'48" E	34.65
L16	N 89°25'48" E	23.00

X = 371 421.12
Y = 1466110.23
Δα = 0°04'50"

3:02 P
C-37
P-142

NEW MEXICO STATE PLANE
COORDINATE SYSTEM
• CENTRAL ZONE
• COMB. GROUND TO GRID FACTOR =
0.99968311
• ROTATION (GROUND TO GRID) =
0°04'32" CW

PLAT OF
LOTS A,B,C & D, RIO BRAVO CENTER
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER, 1988

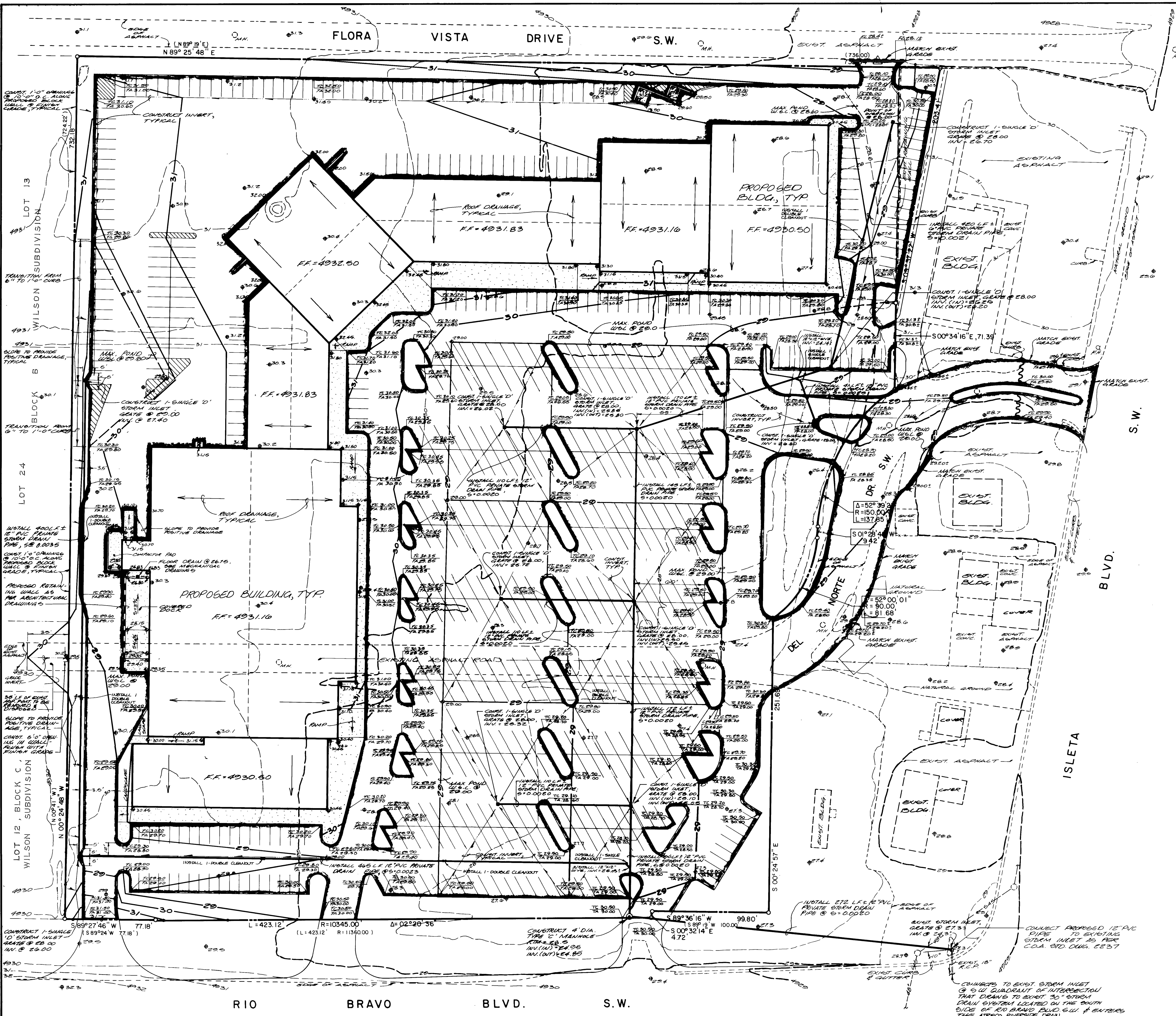


NM500-3
BRASS TABLET
X = 371 390.42
Y = 1465303.13
ELEV. 4930.549 ft.
Δα = 0°04'48"



JEFF MORTENSEN & ASSOCIATES, INC.
811 DALLAS, N.E. ALBUQUERQUE, NM 87110
ENGINEERS TELEPHONE (505) 265-5611

SHEET 2 OF 2



SCALE: 1" = 40'

LEGEND

- PROPERTY LINE
- RECORD BEARING - DIST.
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED 20.5 EXISTING SPOT ELEV.
- PROPOSED 20.6 EXISTING SPOT ELEV.
- PROPOSED CURVE
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED WATERBLOCK
- APPROX. LIMITS OF EXIST. 100 YEAR FLOODPLAIN

VICINITY MAP

SCALE: 1" = 800'

P-12

PROJECT BENCHMARK
N.M.S.N.C.A.C.E. STATION NM 500+3, BEING A STANDARD 1/4" X 1/4" X 1/4" TARGET ORANGE 1024 NM 500+3, SET IN TOP OF A CONCRETE POST FLUSH WITH GROUND. STATION IS LOCATED IN THE INTERSECTION OF RIO BRAVO BLVD. & DEL NORTE BLVD., IN THE CENTER OF THE EAST MEDIAN OF RIO BRAVO BLVD., ABOUT 15 FEET EAST OF THE MEDIAN NOSE. ELEVATION = 4330.85 FEET (M.S.L.D.)

TEMPORARY BENCHMARK
T.B.M. = PROJECT BENCHMARK

LEGAL DESCRIPTION
LOTS 1-12, 25-30, BLOCK B, LOTS 1, 2, 6-11, BLOCK C, WILSON SUBDIVISION

- CONSTRUCTION NOTES:**
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 765-1234, FOR LOCATION OF EXISTING UTILITIES.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 - ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
 - ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
 - IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES IN PLANNING AND CONDUCTING EXCAVATION. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
 - RACFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
 - MAINTENANCE OF THESE FACILITIES SHALL BE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
 - CONTRACTOR SHALL, AT ALL TIMES, SHALL PROVIDE POSITIVE DRAINAGE FROM ADJOINING PROPERTIES ONTO PROJECT SITE DURING CONSTRUCTION IN ORDER TO PREVENT FLOODING OF ADJOINING PROPERTIES.
 - THE CONTRACTOR SHALL, AT ALL TIMES, PROTECT ADJACENT PROPERTIES FROM FLOODING BY THE PROJECT SITE.
 - ALL UNFORESEEN UNDERGROUND CONDITIONS (I.E. SEPTIC TANK, FOUNDATIONS, TREE STUMPS, ETC) SHALL BE REMOVED AND DISPOSED. ALL Voids SHALL BE BACK FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO A MINIMUM OF 90% OF OPTIMUM AS PER ASTM D-1557 IN ACCORDANCE WITH SECTIONS 201 & 204 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1986.
 - DEL NORTE DRIVE S.W. GRADES ARE APPROXIMATE; REFER TO COUNTY ROAD DEPARTMENT DRAWINGS FOR APPROVED GRADES.
- STORM SEWER**
- MANHOLES SHALL BE 4-FOOT DIAMETER TYPE "C" AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2101.
 - SINGLE "D" STORM INLETS SHALL BE AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2206.
 - ALL TRENCH BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90% OF OPTIMUM, AS PER ASTM D-1557.
 - ALL STORM DRAIN SHALL BE PVC (SDR 35).
 - RCP IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC. RCP SHALL BE ASTM CLASS IV (MIN).
- EROSION CONTROL MEASURES**
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE PROPERTY LINES AND WRITING THE SOIL TO KEEP IT FROM BLOWING.
 - THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
 - THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE FEE" PRIOR TO BEGINNING CONSTRUCTION.



DRAINAGE PLAN

The following items concerning the Rio Bravo/Isleta Shopping Center Drainage Plan are contained hereon:

1. Vicinity Map
2. Grading Plan
3. Calculations

As shown by the Vicinity Map, this site is located on the northwest quadrant of the intersection of Rio Bravo Boulevard S.W. and Isleta Boulevard S.W. Flows from this site is undeveloped. Much of the surrounding area is also developed, thereby making this a modification to the existing site. As shown by Panel 40 of the National Flood Insurance Program Flood Boundary and Floodway Maps for the City of Albuquerque, Bernalillo County, this site lies within an AH Flood Zone. Because of this, the finished floor elevation of the proposed buildings have been established at least 1.5' above the corresponding flood elevation of 4929.0 shown on the aforementioned flood map. At present, runoff generated by the site is contained within an existing depression located within the site. Some offsite flows may occur along the north, south, east and west property lines quantified herein will be accepted and conveyed through the project site as discussed below.

The grading plan shows 1) existing and proposed grades indicated by spot elevations and contours at 1'0" intervals, 2) continuity between existing and proposed grades, and 3) the limit and character of the proposed improvements. As shown on the plan, the proposed improvements will include regrading of the site area to provide for improved drainage paving and landscaping. Flows generated by the proposed improvements will be routed from north to south to a series of proposed detention ponds sized to handle the difference between the developed 10-year runoff and the existing 10-year runoff. The flow from the first pond will be directed eastward as a surface flow along Rio Bravo Boulevard S.W. and will be connected to an existing storm drain system. From that point, runoff will flow east within the intersection of Rio Bravo Boulevard S.W. and Elecia Boulevard S.W. From that point, runoff will flow east within the underground storm drain system to the Alameda River. The primary purpose of the proposed improvements is to control runoff and prevent flooding. The proposed improvements allow runoff generated by the proposed improvements at a controlled rate. Based upon the fact that this site is an industrial facility, the primary concern of the project is to control runoff and prevent flooding. The proposed improvements discharge from the site to the Alameda River through the existing storm drain facilities, and the elimination of the flooding problem, that controlled rate of discharge from the site is PROPOSED.

The Calculations which appear hereon analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The Rational Method has been used to quantify the peak rate of discharge and the SCS Method has been used to quantify the volume of runoff. Both Methods have been used in accordance with the City of Albuquerque Development Process Manual, Volume II, and the Mayor's Emergency Rule adopted January 14, 1986. As shown by these calculations, the peak runoff generated by the proposed improvements will increase by approximately 6 cfs.

CALCULATIONS

Ground Cover Information

From SCS Bernaillillo County Soil Survey,
Plate 40, VbA - Vinton sandy loam & Va - Vinton loamy sand
Hydrologic Soil Group: B
Existing Pervious CN = 70 (DPM Plate 22.2 C-2
Pasture or Range Land: fair condition)
Developed Pervious CN = 61 (DPM Plate 22.2 C-2

Time of Concentration/Time to Peak

$$T_C = 0.0078 L^{0.77}/S^{0.385} \text{ (Kirpich Equation)}$$
$$T_D = T_C = 10 \text{ min.}$$

Point Rainfall

P₆ = 2.26 in. (DPM Plate 22.2 D-1)

Rational Method

Discharge: $Q = C i A$

where C varies
 $i = P_6 (6.84) T_C^{-0.51} = 4.78 \text{ in/hr}$
 $P_6 = 2.26 \text{ in (DPM Plate 22.2D-1)}$
 $T_C = 10 \text{ min (minimum)}$
 $A = \text{area, acres}$

SCS Method

Volume: $V = 3630 \text{ (DRO) A}$

Where DRO = Direct runoff in inches
A = area, acres

Existing Condition

Atotal = 456,770 sf = 10.49 Ac
 Roof area = 47,590 sf (0.10)
 Paved area = 68,500 sf (0.15)
 Dirt area = 150,000 sf (0.33)
 Landscaped area = 190,680 sf (0.42)
 C = 0.47 (Weighted average per Emergency Rule, 1/14/86)
 Q100 = CIA (0.47)(4.78)(10.49) = 23.6 cfs
 Limp = 116,090 cfs + impervious = 25 +
 Composite CN = 71 (DPM Paving 22.2 C-3)
 DRO = 0.4 in (DPM Paving 22.2 C-4)
 V100 = 3630 (DRO)A = 15,230 cf

Developed Condition

Atotal = 456,770 sf = 10.49 Ac
 Roof area = 110,500 sf (0.24)
 Paved area = 288,770 sf (0.63)
 Landscaped area = 57,500 sf (0.13)
 C = 0.85 (Weighted average per Emergency Rule, 1/14/86)
 Q100 = CIA = (0.85)(4.78)(10.49) = 42.6 cfs
 Aimp = 399,270 sf; % impervious = 87 %
 Composite CN = 93 (DPM Plate 22.2 C-3)
 DRO = 1.50 in (DPM Plate 22.2 C-4)
 V100 = 3630 (DRO)A = 57,120 cf

$$\begin{aligned} \Delta V_{pond} &= 1/2[(A_{28.0} + A_{29.0})(29.0 - 28.0) + (A_{29.0} + A_{29.8})(29.80 - 29.0) \\ &\quad (A_{28.00} + A_{28.60})(28.60 - 28.00)] \\ &= 1/2[(0+140,690)(1.0) + (0+6000)(0.8) + (0+3000)(0.60)] \\ &= 73,645 - V_{sewitrtd} = 69,570 \text{ cf (by hydrograph analysis)} \end{aligned}$$

Offsite Flows

$A_{\text{total}} = 1,050,000 \text{ sf} = 24.1 \text{ Ac}$
 $C = \frac{0.47}{T_c} \quad (\text{Based on Onsite Existing Conditions})$
 $T_c = 15 \text{ min}$
 Where $s = 0.007$
 $L = 1.600 \text{ ft}$

$i = 3.80 \text{ in/hr}$
 $Q_{100} = C_i A = (0.47)(3.80)(24.1) = 43 \text{ cfs}$
 Composite CN = 71 (Based on Onsite Existing Conditions)
 $DRO = 0.40 \text{ in}$ (Based on Onsite Existing Conditions)
 $V_{100} = 3630 (DRO) A = 35,000 \text{ cf}$

Drainage Basin Contributing to Existing Storm System

(Included Proposed Development & Offisgte Flows)

Atotal = 2,175,000 sf = 49.93 Ac
Paved area = 288,600 sf = (0.13)
Rooft area = 665,400 sf = (0.31)
Landscaped area = 327,800 sf = (0.15)
C = 0.61 (Based on Onsite Existing Conditions)
Tc = 15 min
Where s = 0.007
L = 1,600 ft
i = 3.80 in/hr
Q100 = CIA = (0.61)(3.80)(49.93) = 116 cfs

Capacity of 30" Storm Drain System

$Q = \text{CARZgh} = 48 \text{ cfs}$
 Where $C = 0.7$
 $A = 3.14 \text{ sf (Area of 30" storm drain outlet downsized to 24" Dia)}$
 $g = 32.2 \text{ ft/sec}^2$
 $h = 4930 - 4922.4 = 7.6 \text{ ft (NMSH Asbults - ST - (m) - 4008 (202+203))}$

Capacity of 18" Lateral (Outlet for Proposed Development)

Q = 6 cfs (Feild's Hydraulics Calculator for Gravity Flow in Pipes
Manning Formula)

Where $s = 0.003$ (NMSH Asbuilts - St - (m) - 4008 (202 + 203)
Dia = 18"
 $n = 0.013$

$$Q_{\text{allowable}} = \frac{6 \text{ cfs}}{34.6 \text{ acres}} = 0.17 \text{ cfs/acre}$$


Comparison

$$\Delta Q_{100} = 42.6 - 24.6 = 18 \text{ cfs (increase)}$$

$$\Delta V_{100} = 57,120 - 15,230 = 41,890 \text{ cf (increase)}$$

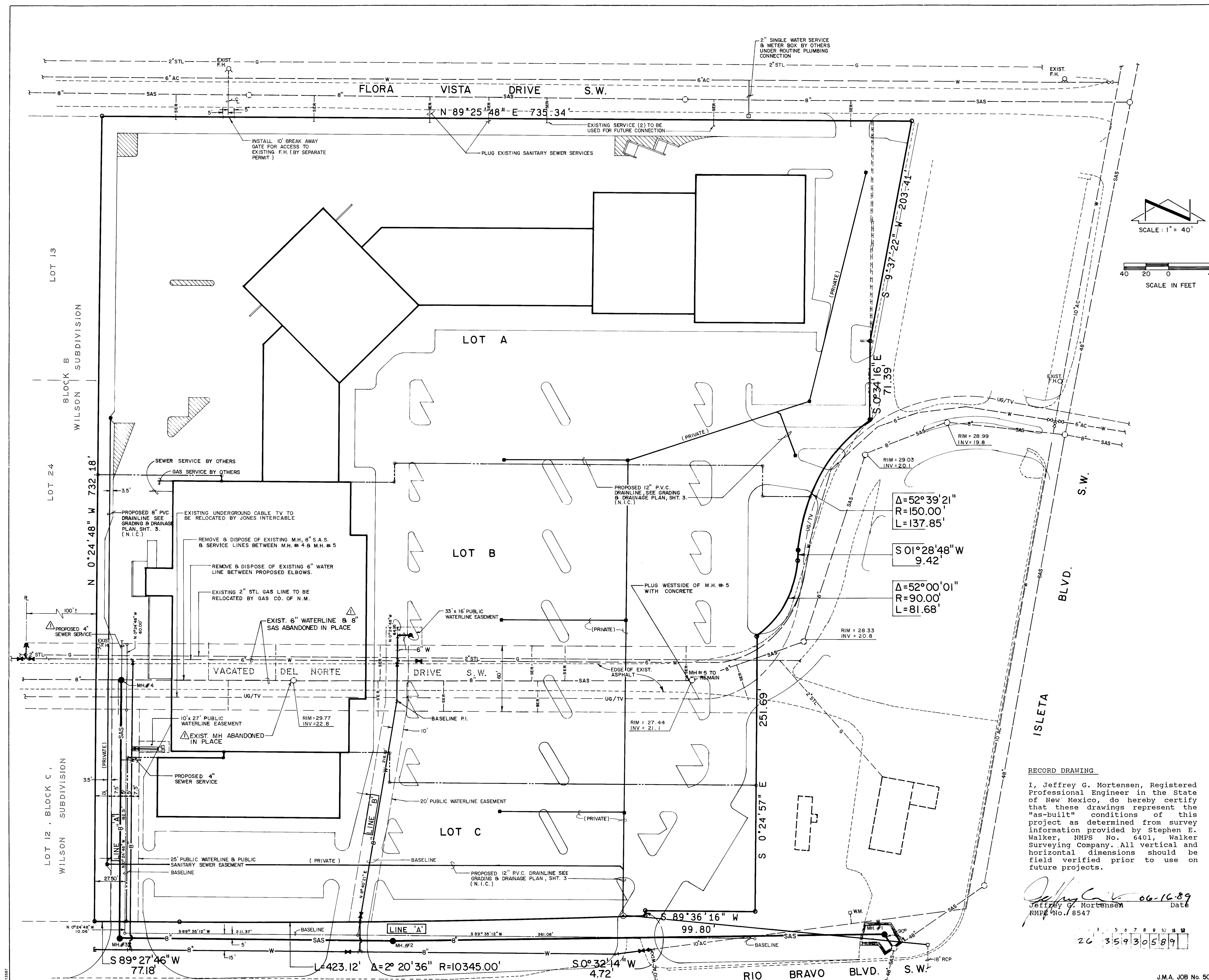
GRADING AND DRAINAGE PLAN

RIO BRAVO SHOPPING CENTER

DESIGN BY	L. P. U.	No.	Date	By	Revision	JOB NO.	50232
			11/1988	L. P. U.	REVISE GRADES & CALC'S	DATE	6 - 1988
DRAWN BY	C. V. M.					SHEET	OF
						2	2
APPROVED BY	J. G. M.						

3593

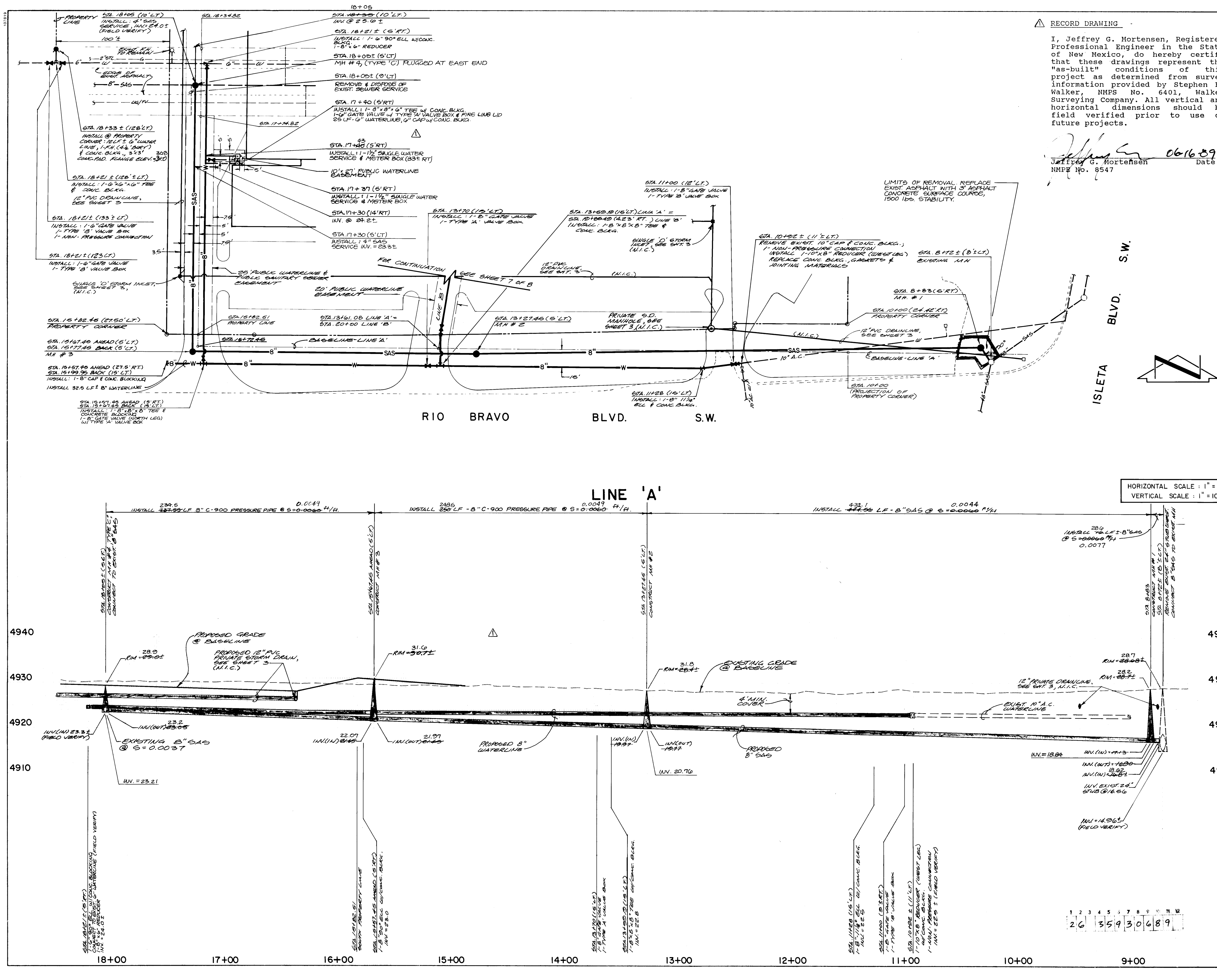
SHEET 4 OF 8



SANITARY SEWER SYSTEM		AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
		CONTRACTOR	DATE	WORK STARTED BY	DATE	FIELD BY	DATE	NO.	
		ASSIGNED	DATE	ANALYZED BY	DATE	FIELD VERIFICATION BY	DATE		
						MICRO-FILM INFORMATION		RECORDED BY	NO.
1.	ALL STATIONING IS BASED ON BASELINE DATA UNLESS INDICATED OTHERWISE. FOR BASELINE DATA, REFER TO BASELINE PLAN (SHEET 5).								
2.	ALL SEWER PIPE SHALL BE PVC (SDR 35) UNLESS INDICATED OTHERWISE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER (SEE NOTE 7).								
3.	SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.								
4.	ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE "B" AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.								
5.	MANHOLE TYPE 'C' SHALL BE FOUR-FOOT DIAMETER AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2101 WHERE SPECIFIED.								
6.	SEWER SERVICE LATERALS SHALL BE CONSTRUCTED AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125.								
7.	VITRIFIED CLAY AND DUCTILE IRON ARE ACCEPTABLE PIPE MATERIALS IN LIEU OF PVC, UNLESS AWWA C-900 IS SPECIFIED.								
<u>WATER DISTRIBUTION SYSTEM</u>									
8.	ALL STATIONING IS BASED ON BASELINE DATA UNLESS INDICATED OTHERWISE. FOR BASELINE DATA, REFER TO BASELINE (SHEET 5).								
9.	WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER (SEE NOTE 12).								
10.	WATER LINE SHALL HAVE A MINIMUM COVER OF 4'0" (FINISHED GRADE TO TOP OF PIPE).								
11.	ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.								
12.	DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.								
13.	ALL PIPE SHALL BE FURNISHED WITH CLASS "C" BEDDING UNLESS OTHERWISE NOTED. ALL TRENCHING BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90% OF OPTIMUM, AS PER ASTM D-1557.								
14.	WHERE SEWER AND WATER LINES CROSS, IF VERTICAL CLEARANCE DOES NOT EXCEED 1'6", THE SEWER LINE MUST BE PVC AWWA C-900 PRESSURE RATED PIPE BETWEEN THE MANHOLES ON EACH SIDE OF THE CROSSING.								
15.	FIRE HYDRANTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD DRAWING 2340.								
16.	NO DEFLECTION OF PVC PIPE WILL BE ALLOWED AT THE JOINT. DEFLECTION SHALL ONLY OCCUR ALONG THE BARREL OF THE PIPE. MAXIMUM DEFLECTION SHALL NOT EXCEED 2/3 OF THE MAXIMUM RECOMMENDED BY MANUFACTURER.								
17.	REPLACEMENT GASKETS & JOINTING MATERIALS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.								

093000

	JEFF MORTENSEN & ASSOCIATES, INC. 811 DALLAS, N.E. ALBUQUERQUE, NM 87110 © ENGINEERS • TELEPHONE (505) 265-9611 ©										DESIGNED _____ DRAWN BY _____ CHECKED _____
							6/15/____	NO.	SAT		
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP											
TITLE:	RIO BRAVO SHOPPING CENTER SITE PLAN AND BASELINE PLAN										
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE						
D.R.C Chair	[Signature]	11/16/88									
Trans. Dev.	N/A										
Utility Dev.	[Signature]	11/14/88									
DRAWING NO.	3593		MAP NO.	P - 12	SHEET		OF	5 8			



RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project as determined from survey information provided by Stephen E. Walker, NMPS No. 6401, Walker Surveying Company. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Jeffrey G. Mortensen
NMPS No. 8547

06-16-89 Date

SANITARY SEWER SYSTEM

- ALL STATIONING IS BASED ON BASELINE DATA UNLESS INDICATED OTHERWISE. FOR BASELINE DATA, REFER TO BASELINE PLAN (SHEET 5).
- ALL SEWER PIPE SHALL BE PVC (SDR 35) UNLESS OTHERWISE INDICATED OTHERWISE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER (SEE NOTE 7).
- SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
- ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE "E" AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.
- MANHOLE TYPE "C" SHALL BE FOUR-FOOT DIAMETER AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2101 WHERE SPECIFIED.
- SEWER SERVICE LATERALS SHALL BE CONSTRUCTED AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125.
- VITRIFIED CLAY AND DUCTILE IRON ARE ACCEPTABLE PIPE MATERIALS IN LIEU OF PVC, UNLESS AWWA C-900 IS SPECIFIED.

WATER DISTRIBUTION SYSTEM

- ALL STATIONING IS BASED ON BASELINE DATA UNLESS INDICATED OTHERWISE. FOR BASELINE DATA, REFER TO BASELINE (SHEET 5).
- WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER (SEE NOTE 12).
- WATER LINE SHALL HAVE A MINIMUM COVER OF 4'0" (FINISHED GRADE TO TOP OF PIPE).
- ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
- DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
- ALL PIPE SHALL BE FURNISHED WITH CLASS "C" BEDDING UNLESS OTHERWISE NOTED. ALL TRENCHING BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90% OF OPTIMUM, AS PER ASTM D-1557.
- WHERE SEWER AND WATER LINES CROSS, IF VERTICAL CLEARANCE DOES NOT EXCEED 1'6", THE SEWER LINE MUST BE PVC AWWA C-900 PRESSURE RATED PIPE BETWEEN THE MANHOLES ON EACH SIDE OF THE CROSSING.
- FIRE HYDRANTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD DRAWING 2340.
- NO DEFLECTION OF PVC PIPE WILL BE ALLOWED AT THE JOINT. DEFLECTION SHALL ONLY OCCUR ALONG THE BARREL OF THE PIPE. MAXIMUM DEFLECTION SHALL NOT EXCEED 2/3 OF THE MAXIMUM RECOMMENDED BY MANUFACTURER.
- REPLACEMENT GASKETS & JOINTING MATERIALS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

AS BUILT INFORMATION

CONTRACTOR: NMPS NO. 8547
WORK: RIO BRAVO SHOPPING CENTER
DATE: 06-16-89
INSPECTOR: J.G.M.
ACCEPTANCE BY: J.G.M.
DATE: 06-16-89
DRAWING NO.: 3593
SHEET: 6 OF 8

ENGINEER'S SEAL

JEFF MORTENSEN
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
06-16-89

REVISIONS

NO.	DATE	REVISIONS
1	6/15/89	AS-BUILT WATERLINE & S.A.S.

DESIGN

DESIGNED BY	CHECKED BY	DATE
P.M.L.	J.G.M.	6-88
C.V.M.	J.G.M.	6-88

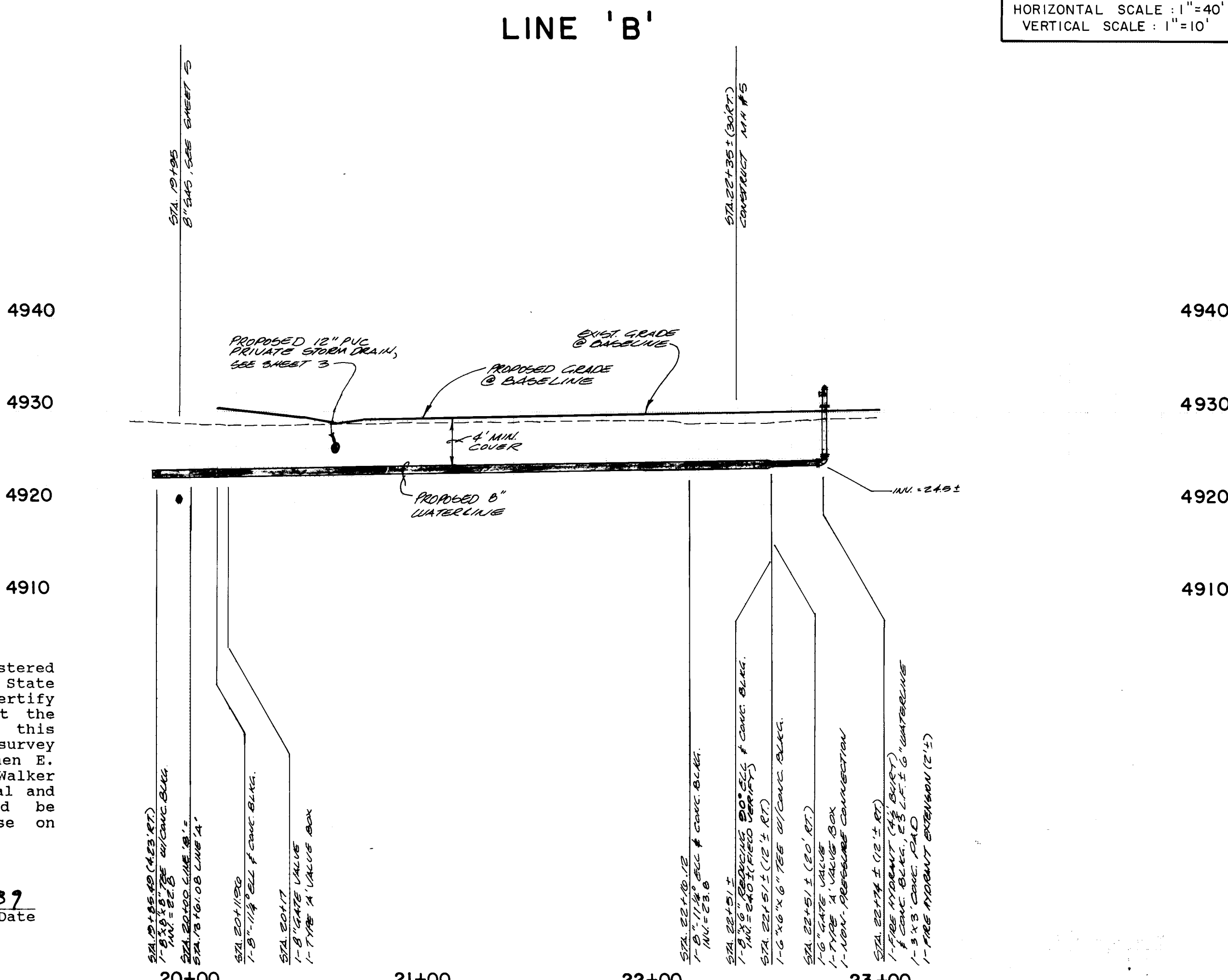
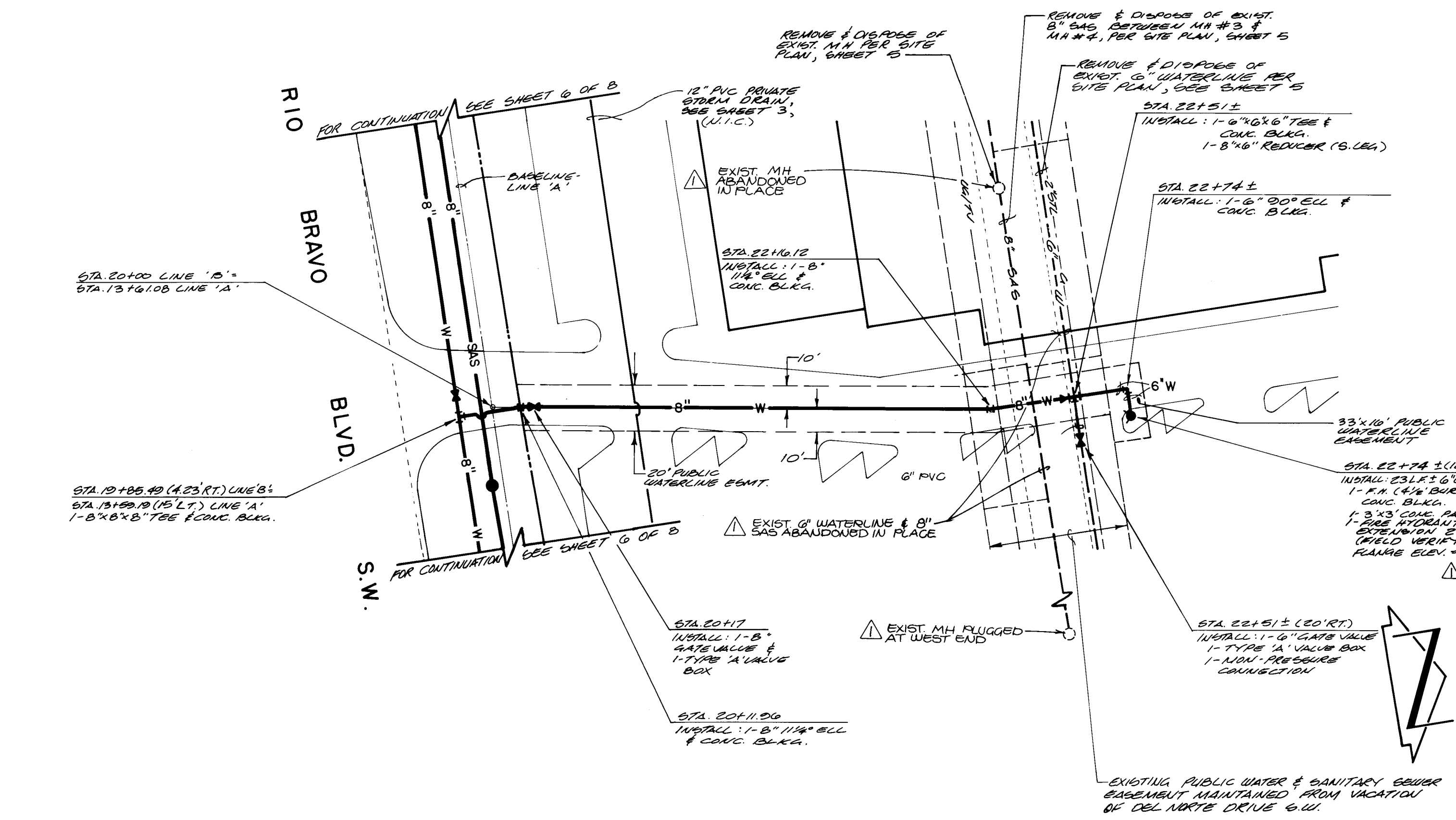
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RIO BRAVO SHOPPING CENTER
LINE 'A' - SANITARY SEWER AND WATERLINE
PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	J.G.M.	11/1/89			
Trans. Dev	N/A				
Utility Dev	J.G.M.	11/4/88			

DRAWING NO. 3593
MAP NO. P-12
SHEET 6 OF 8

JOB No. 50233



RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project as determined from survey information provided by Stephen E. Walker, NMFS No. 6401, Walker Surveying Company. All vertical and horizontal dimensions should be field verified prior to use on future projects.

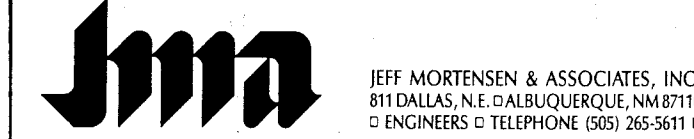
Jeffrey G. Mortensen 06-16-89 Date
NMES No. 8547

SANITARY SEWER SYSTEM

1. ALL STATIONING IS BASED ON BASELINE DATA UNLESS INDICATED OTHERWISE. FOR BASELINE DATA, REFER TO BASELINE PLAN (SHEET 5).
2. ALL SEWER PIPE SHALL BE PVC (SDR 35) UNLESS INDICATED OTHERWISE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER (SEE NOTE 7).
3. SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
4. ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE "E" AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.
5. MANHOLE TYPE "C" SHALL BE FOUR-FOOT DIAMETER AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2101 WHERE SPECIFIED.
6. SEWER SERVICE LATERALS SHALL BE CONSTRUCTED AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125.
7. VITRIFIED CLAY AND DUCTILE IRON ARE ACCEPTABLE PIPE MATERIALS IN LIEU OF PVC, UNLESS AWWA C-900 IS SPECIFIED.

WATER DISTRIBUTION SYSTEM

8. ALL STATIONING IS BASED ON BASELINE DATA UNLESS INDICATED OTHERWISE. FOR BASELINE DATA, REFER TO BASELINE (SHEET 5).
9. WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER (SEE NOTE 12).
10. WATER LINE SHALL HAVE A MINIMUM COVER OF 4'0" (FINISHED GRADE TO TOP OF PIPE).
11. ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
12. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
13. ALL PIPE SHALL BE FURNISHED WITH CLASS "C" BEDDING UNLESS OTHERWISE NOTED. ALL TRENCHING BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90% OF OPTIMUM, AS PER ASTM D-1557.
14. WHERE SEWER AND WATER LINES CROSS, IF VERTICAL CLEARANCE DOES NOT EXCEED 1'6", THE SEWER LINE MUST BE PVC AWWA C-900 PRESSURE RATED PIPE BETWEEN THE MANHOLES ON EACH SIDE OF THE CROSSING.
15. FIRE HYDRANTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD DRAWING 2340.
16. NO DEFLECTION OF PVC PIPE WILL BE ALLOWED AT THE JOINT. DEFLECTION SHALL ONLY OCCUR ALONG THE BARREL OF THE PIPE. MAXIMUM DEFLECTION SHALL NOT EXCEED 2/3 OF THE MAXIMUM RECOMMENDED BY MANUFACTURER.
17. REPLACEMENT GASKETS & JOINTING MATERIALS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.



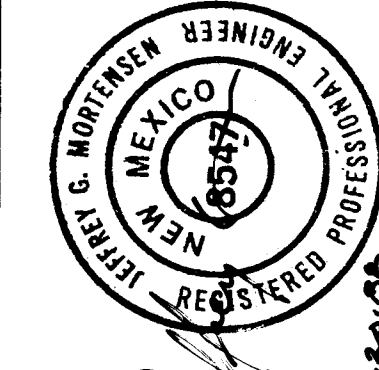
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RIO BRAVO SHOPPING CENTER
LINE 'B' - WATERLINE PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair		11/17/88			
Trans. Dev					
Utility Dev		11/17/88			

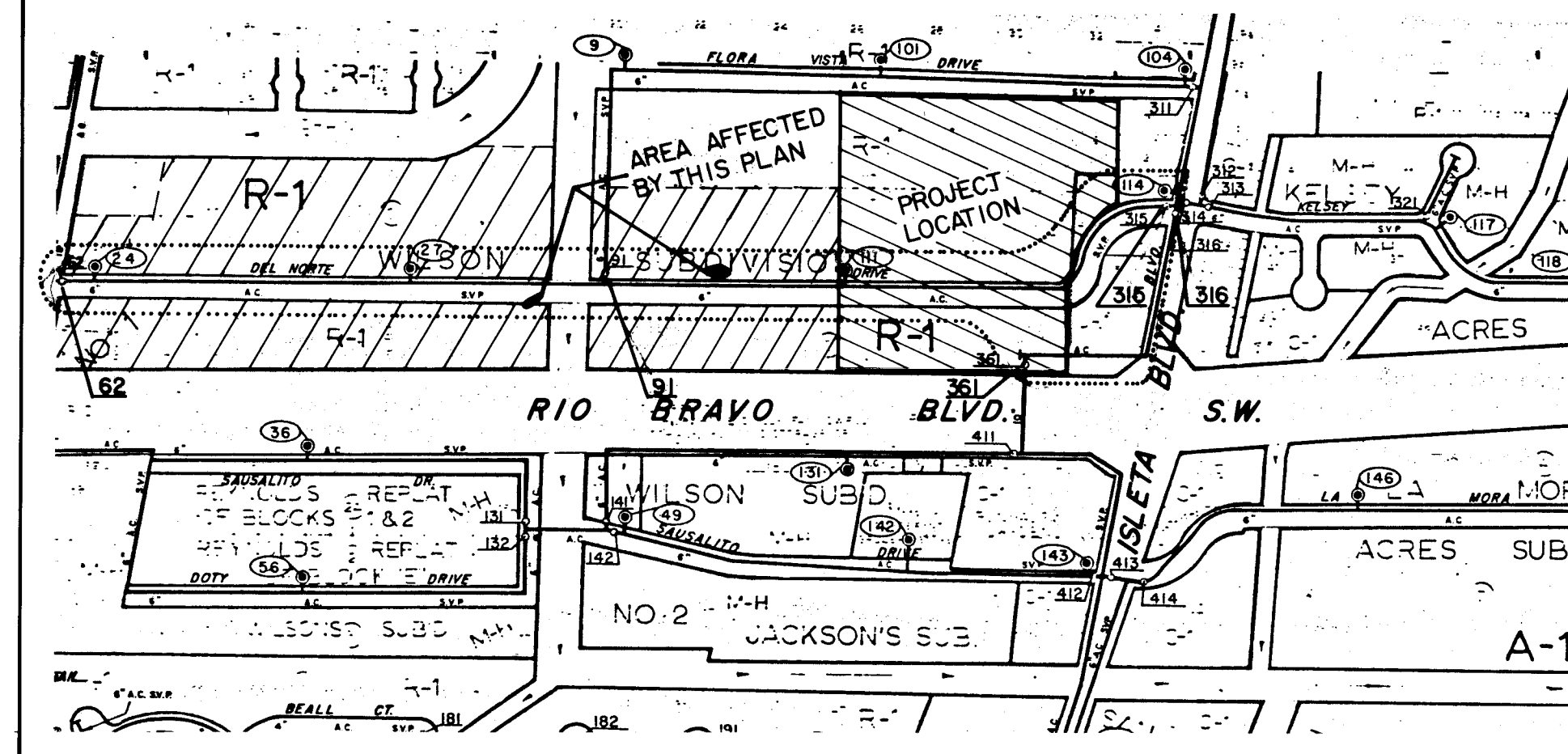
DRAWING NO. 3593 MAP NO. P-12 SHEET 7 OF 8

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN		CHECKED BY	
CONTRACT NO.		INSTR. / ACS STATION	MM 500-3, BEING A STANDARD INSHC	DATE		NO.		NO.		DATE		DATE	
WORKED BY		POST FLUSH W/GROUND	SECTION OF RIO BRAVO BLVD. & ISLETA BLVD. IN THE CENTER OF THE EAST MEDIAN ON RIO BRAVO, ABOUT 15 FEET EAST OF THE MEDIAN NOSE.	DATE						DATE		DATE	
INSPECTED BY													
ACCEPTANCE BY													
VERIFICATION BY													
DRAWING NO.													
DATE													
RECORDED BY													
NO													



09-30-88

DESIGNED BY P.M.L. DATE 6-88
DRAWN BY C.V.M. DATE 6-88
CHECKED BY J.G.M. DATE 6-88

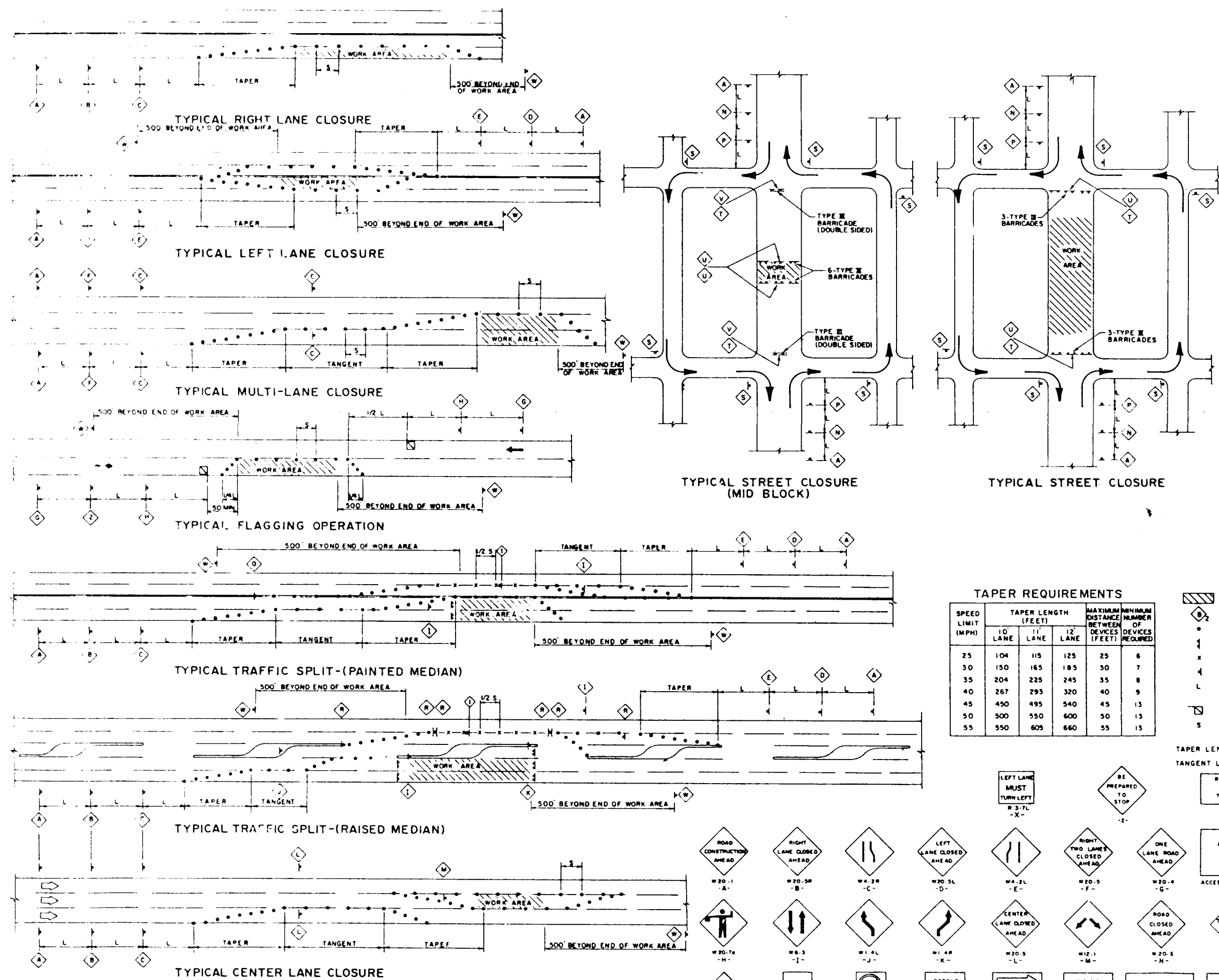


VALVE SHUT-OFF PLAN

P-12-N

VALVE SHUT-OFF PLAN

1. CLOSE VALVES 62, 91 AND 316 FOR CONNECTIONS ALONG EXISTING 6" LINE IN DEL NORTE DRIVE. THE CONNECTIONS SHALL ALL BE MADE DURING ONE SHUT-OFF PERIOD TO MINIMIZE SHUT DOWN TIME.
2. CLOSE VALVES 316 AND 361 ON EXISTING 10" LINE FOR EAST END OF LINE "A" CONNECTION.



NOTES

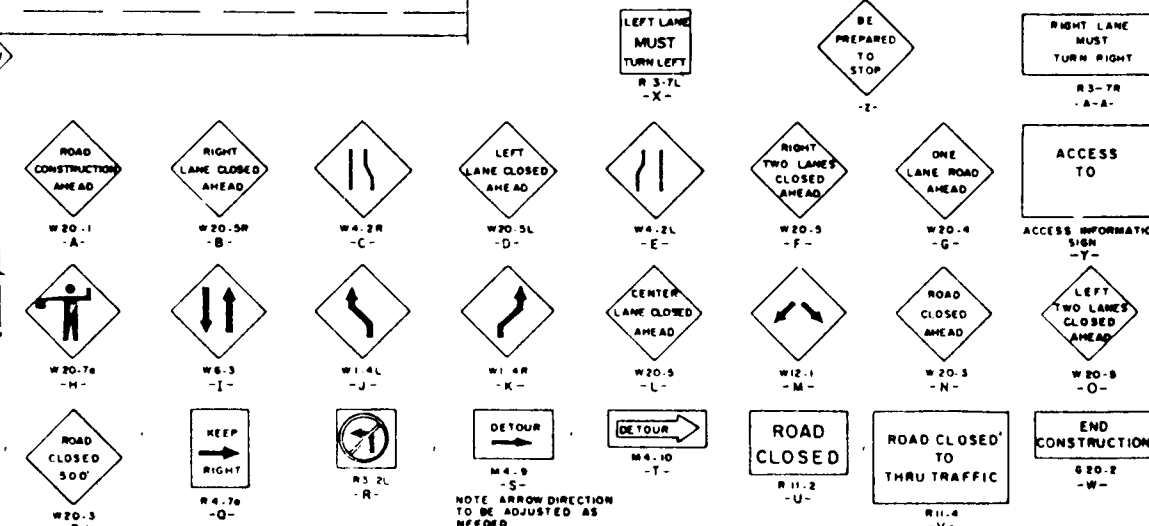
ALL ADVANCE WARNING SIGNS ARE TO BE DOUBLE INDICATED WHENEVER MEDIANS ARE PRESENT.
TRANSFORMATION FROM EXISTING SIGNALS TO SPAN WIRE IS TO OCCUR AT OFF PEAK HOURS

LEGEND

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (FEET)			MINIMUM ADVANCE WARNING (FEET)	MINIMUM TAPER LENGTH (FEET)
	10 LANE	12 LANE	14 LANE		
25	104	125	125	25	8
30	150	185	185	30	7
35	204	235	245	35	8
40	267	295	320	40	9
45	400	435	540	45	13
50	500	550	600	50	13
55	550	605	660	55	13

WORK AREA
TRAFFIC SIGN & QUANTITY (SEE THIS SHEET FOR DESIGNATION)
BARRICADE - TYPE I, TYPE S, OR BARREL
VERTICAL PANEL
WARNING SIGN
DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
FLAGMAN POSITION
SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
TAPER LENGTH - SEE CHART AT LEFT
TANGENT LENGTH - IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET



TRAFFIC CONTROL DETAILS

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORKED BY	DATE
INSPECTED BY	DATE
ACCEPTANCE BY	DATE
VERIFICATION BY	DATE
DRAWING BY	DATE
REVISIONS	DATE
RECORDED BY	DATE
NO	

BENCH MARKS	
NMSHC / ACS STATION NM 500-3, BEING A STANDARD NMSHC BRASS TABLET STAMPED "STA NM 500-3", SET IN TOP OF A CONC. POST FLUSH W/ GROUND. STATION IS LOCATED IN THE INTERSECTION OF RIO BRAVO BLVD. & ISLETA BLVD. IN THE CENTER OF THE EAST MEDIAN ON RIO BRAVO, ABOUT 15 FEET EAST OF THE MEDIAN NOSE.	ELEVATION = 4930.55 FEET (M.S.L.D.)

SURVEY INFORMATION	
FIELD NOTES	DATE
BY	
NO	

ENGINEER'S SEAL	
JEFF MORTENSEN	REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO	1984
09-30-88	

REMARKS	
NO	DATE
DESIGNED BY	P.M.L.
DRAWN BY	C.V.M.
CHECKED BY	J.G.M.
DATE	6-88
DATE	6-88
DATE	6-88



JEFF MORTENSEN & ASSOCIATES, INC.
811 DALLAS, N.E. ALBUQUERQUE, NM 87110
ENGINEERS & ARCHITECTS (505) 265-5011

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: RIO BRAVO SHOPPING CENTER
VALVE SHUT-OFF PLAN / TRAFFIC CONTROL DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chair	NA	11/1/88			
Trans. Dev.	NA				
Utility Dev.	NA	11/1/88			

DRAWING NO.	3593	MAP NO.	P-12	SHEET	8	OF	8
-------------	------	---------	------	-------	---	----	---