

TRACTS G-1A-2A THRU G-1A-2E

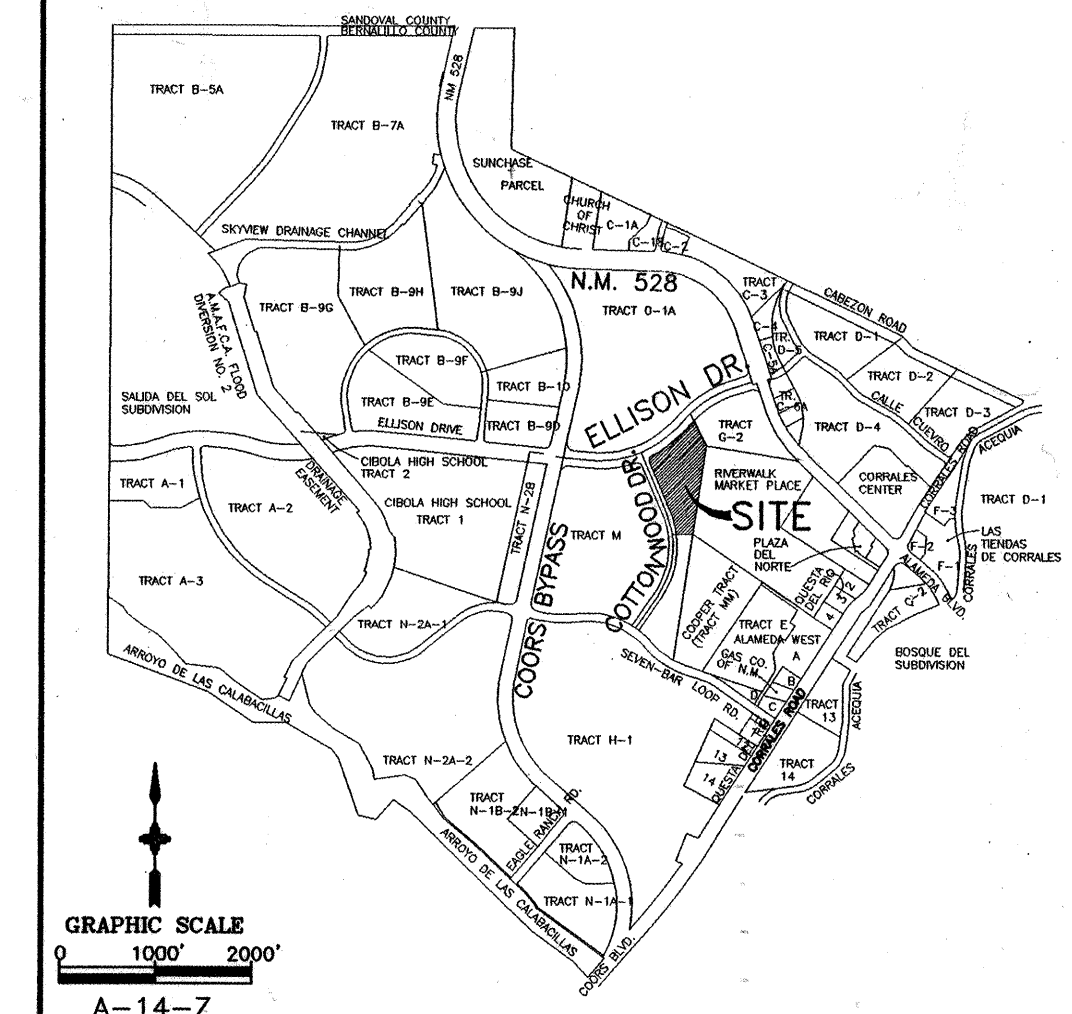
7 BAR RANCH

CITY OF ALBUQUERQUE, NEW MEXICO

BERNALILLO COUNTY

GRADING, PAVING AND

PUBLIC UTILITIES



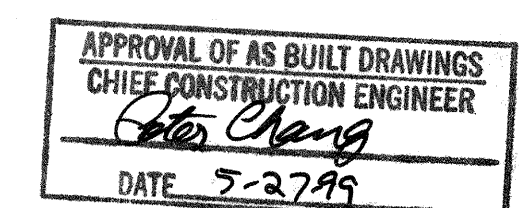
VICINITY MAP

RECORD DRAWING

I, R. P. Bohannon, hereby certify that this drawing has been revised in accordance with the survey information furnished by Surv-Tek, Inc. to reflect the construction as actually accomplished.



R.P. Bohannon 4/5/97
R. P. Bohannon Date
N.M.P.E. No. 9814



GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THRU UPDATE NO. 6, AND NEW MEXICO UTILITIES INC. SPECIFICATIONS FOR WATER & WASTEWATER FACILITIES, LATEST REV. A COPY OF THE NEW MEXICO UTILITIES SPECIFICATIONS MAY BE OBTAINED FROM NEW MEXICO UTILITIES INC., SEE ADDRESS BELOW.
- CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER, AND SHALL BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEY SECTION. WHEN A CHANGE IS MADE IN ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES. CONTACT NEW MEXICO UTILITIES INC. (898-2661) FOR WATER AND SEWER LOCATIONS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
- THE CONTRACTOR SHALL CONTACT NEW MEXICO UTILITIES INC. (898-2661) FIVE (5) WORKING DAYS PRIOR TO NEEDING SHUT-OFF OR TURN-ON OF VALVES. ONLY NEW MEXICO UTILITIES INC. PERSONNEL ARE AUTHORIZED TO OPERATE VALVES.
- THE PUBLIC WATER LINE MUST BE A MINIMUM OF 18" ABOVE THE SEWER LINE AT ALL CROSSINGS.
- THE CONTRACTOR SHALL FURNISH EMD'S ON ALL WATER AND SEWER SERVICE STUBS, CAPS AND PLUGS.
- 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 DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED BY CONTRACTOR WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS IN EXISTING STRIPING LOCATIONS UNLESS OTHERWISE INDICATED BY THIS PLAN SET.
- ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES 24 HOUR CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR, OR REMOVAL AND REPLACEMENT OF ANY PAVEMENT, PAVEMENT MARKINGS, CURB AND GUTTER, DRIVEPADS, SIDEWALK, WHEELCHAIR RAMP OR ANY OTHER EXISTING IMPROVEMENTS DAMAGED BY THE CONTRACTORS OPERATIONS.
- THE CONTRACTOR SHALL PERFORM ALL PROJECT CONSTRUCTION AND CONSTRUCTION TRAFFIC CONTROL IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE ORANGE BARREL POLICY.
- ELLISON DRIVE IS AN ARTERIAL STREET AND ANY WORK REQUIRING CLOSURE OF THROUGH LANES SHALL BE PERFORMED ON A 24 HOUR PER DAY BASIS UNTIL COMPLETE.
- TO THE GREATEST EXTENT POSSIBLE WITHOUT COMPROMISING SAFETY, CONTRACTORS SHALL CONSTRUCT ALL WORK BEHIND THE EXISTING CURB WITHOUT BARRICADING.
- A TOTAL OF FOURTEEN (14) CALENDAR DAYS WILL BE ALLOWED FOR EACH COMBINATION OF MEDIAN OPENING / TURN LANE AND CURB OPENING / TURN LANE FROM THE START OF WORK TO COMPLETION OF WORK WITHIN THE RIGHT-OF-WAY. UTILITY TIE-IN WORK AT EACH LOCATION SHALL BE INCLUDED IN THIS TIMEFRAME.
- THE ABOVE NOTES REFLECT ANTICIPATED TRAFFIC CONTROL REQUIREMENTS. ACTUAL REQUIREMENTS SHALL BE DETERMINED AT TIME OF ISSUANCE OF THE BARRICADE PERMIT(S).

INDEX TO DRAWINGS

SHEET No.	DESCRIPTION
1	COVER SHEET
2-3	SUBDIVISION PLAT
4-5	GRADING & DRAINAGE PLANS & DETAILS
6	STREET & UTILITY MASTER PLAN
7-9	COTTONWOOD PARK STREET, WATER, SEWER & STORM DRAIN PLAN & PROFILE
10	CONNECTOR STREET STREET, WATER, SEWER & STORM DRAIN PLAN & PROFILE
11	EAST PROPERTY LINE STORM DRAIN PLAN & PROFILE
12	COTTONWOOD DR. WATERLINE, MEDIAN, DRIVEWAYS & WATERLINE PLAN
13	ELLISON DR. DRIVEWAYS & DECEL LANE PLAN
14	ELLISON DR. MEDIAN PLAN
15-16	TRAFFIC CONTROL

DRB CASE No. 96-353

UTILITY COMPANY CONTACTS

NEW MEXICO UTILITIES
(Water & Sanitary Sewer)
Bob Gay
4700 Irving Blvd. N.W.
Albuquerque, NM 87114
(505) 898-2661

PNM ELECTRIC
Jim Vann
4201 Edith Blvd. NE
Albuquerque, New Mexico 87107
(505) 848-3426

PNM GAS
Debbie O'Callaghan
4625 Edith Blvd., NE
Albuquerque, New Mexico 87107
(505) 761-7705

US WEST COMMUNICATIONS
Norma Carrillo
201 Third Street
P.O. Box 1355, Sta. 952
Albuquerque, New Mexico 87103
(505) 245-8706

AT&T
Ismael Pantoja
111 Third St., NW
Albuquerque, New Mexico 87103
(505) 842-2806

JONES INTERCABLE
Karen Shore
4611 Montbel Pl., NE
P.O. Box 27138
Albuquerque, NM 87125-7138
(505) 761-8220

NOTE

THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES. MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY 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. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

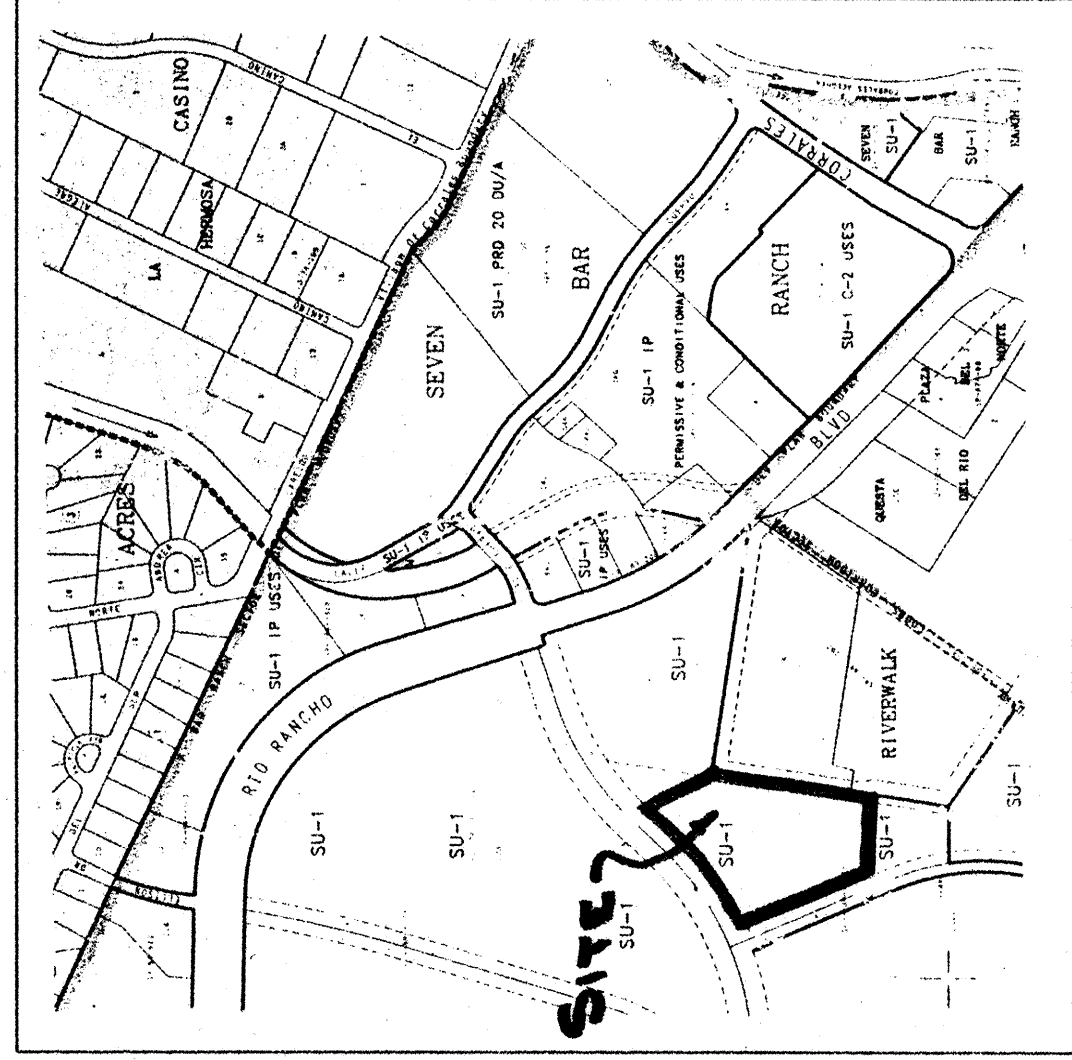
NOTE

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

NOTE

THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF EASTERLING & ASSOCIATES, INC. IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC CHAIR		<i>Billie G. Gentry</i>		6-17-97	
		TRANSPORTATION		<i>Billie G. Gentry</i>		6-17-97	
		WATER/WASTEWATER		<i>R.W. Kane</i>		6-17-97	
		HYDROLOGY		<i>Anna Calogian</i>		6-17-97	
		CIP					
CONSTR. MNGMT.							
CONST. COORD.							
CITY PROJECT NO.		566181		SHEET		OF	
				1		16	



Vicinity Map

N.T.S.

GENERAL NOTES

1. Bearings are grid based upon the New Mexico State Plane Coordinate System, Central Zone (NAD-83), and related Monument NM-448-NZ.
2. Distances are ground.
3. Distances along curved lines are arc lengths.
4. All corners are a 3/8" rebar, and surveyor stamped "HUGG LS" to grid at the Albuquerque Central Survey Monument NM-448-NZ.
5. Delta Alpha = $-00^{\circ}13'46''$
6. Ground to Grid factor = 0.9996795
7. Zone Atlas Page A-14.
8. U.C.L.S. Log Number 9610116250468

DISCLOSURE STATEMENT

The purpose of this report is to divide Tract G-1A-2 into five (5) lots, as shown on the attached plat, and to dedicate the additional street right of way shown hereon.

NOTE:

These properties are within the New Mexico Utilities, Inc. (NMU, Inc.) service area. The City of Albuquerque is the owner of the water and sewer infrastructure improvements must, however, be approved by both the City of Albuquerque and NMU, Inc.

960271b1

TRACTS G-1A-2A THRU G-1A-2E
SEVEN - BAR RANCH
(BEING A REPLAT OF TRACT G-1A-2, SEVEN-BAR RANCH)
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
NOVEMBER, 1996

Reserved for County Clerk Seal

PUBLIC UTILITY EASEMENTS

PUBLIC UTILITY EASEMENTS shown on this plat are granted for the common and joint use of:

- A. PNM Electric Services for installation, maintenance, and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide electrical service.
- B. PNM Gas Services for installation, maintenance and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide natural gas.
- C. U.S. West Communications for the installation, maintenance, and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide telephone service.
- D. New Mexico Utilities, Inc. for the installation, maintenance and service of sewer and water lines, valves and other related equipment reasonably necessary to provide sewer and water services.
- E. Jones Interconnect, Inc. for the installation, maintenance and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide cable TV service.

included, is the right to build, rebuild, construct, reconstruct, locate, relocate, change, remove, modify, renew, operate, and maintain facilities for the purposes described above, together with the right to install, maintain, operate, and use such facilities, and the right to run and remove trees, shrubs or bushes which interfere with the purposes set forth herein. No building, sign, structure, or other structure shall be erected or constructed on said easements, nor shall any well be drilled or operated thereon. Property owners shall be solely responsible for correcting any encroachments or obstructions on the easements, including, but not limited to, poles, decking, or any structures adjacent to or near easements shown on this plat.

approving this plat, PNM Electric Services and Gas Services (PNM) did not conduct a title search.

APPROVALS

Heidi J. Hibel 1-9-97 Date

PNM Electric Services

Joe S. Sandoz 1-7-97 Date

PNM Gas Services

Norma S. Canales 1-7-97 Date

U.S. West Communications

Walter Watson 1-7-97 Date

Jones Interconnect

[Signature] 1-7-97 Date

New Mexico Utilities, Inc.

SURVEYORS CERTIFICATION

I, Gary P. Hugg, New Mexico Professional Surveyor Number 5823, hereby certify that this plat of survey was prepared by me or under my supervision; that it meets the Standards for Land Surveys in New Mexico as adopted by the New Mexico State Board of Registration for Professional Engineers and Surveyors; that it complies with the minimum requirements for surveys and monumentation of the Albuquerque Subdivision Ordinance; that it shows all easements of record; and that it is true and correct to the best of my knowledge and belief.

Gary P. Hugg
Gary P. Hugg
NMPS No. 5823
November 1, 1996

SHEET 1 OF 3

SURV+TEK, INC.

Consulting Surveyors
5643 Paradise Blvd., N.E. Albuquerque, New Mexico 87114
Phone: 505-897-3366
Fax: 505-897-3377

TRACTS G-1A-2A THRU G-1A-2E
SEVEN - BAR RANCH
(BEING A REPLAT OF TRACT G-1A-2, SEVEN-BAR RANCH)
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
NOVEMBER, 1996

Reserved for County Clerk Seal

LEGAL DESCRIPTION

That certain parcel of land situated within the Town of Alameda Grant in projected Section 5, Township 11 North, Range 3 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, being and comprising Tract G-1A-2, Seven-Bar Ranch, as the same is shown and designated on the plat entitled "TRACTS G-1A-2, SEVEN-BAR RANCH, BEING A REPLAT OF TRACT G-1A-2, SEVEN-BAR RANCH, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO", filed in the office of the County Clerk of Bernalillo County, New Mexico, on December 26, 1996, in Volume 96C, folio 342.

Said parcel contains 7.7978 acres, more or less.

FREE CONSENT AND DEDICATION

SURVEYED AND REPLATED and now comprising TRACTS G-1A-2A THRU G-1A-2E SEVEN-BAR RANCH (BEING A REPLAT OF TRACT G-1A-2, SEVEN-BAR RANCH), CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, with the free consent of and approval of the undersigned owner(s) and operator(s) of the water and sewerage system, and all public utility easements shown hereon and do hereby dedicate the additional street right of way shown hereon to the City of Albuquerque in fee simple and do hereby certify that they are so authorized to act.

Donald L. Chalmers
WRANGLER PROPERTIES LIMITED LIABILITY COMPANY
Chalmers Limited Liability Company
Donald L. Chalmers, Manager

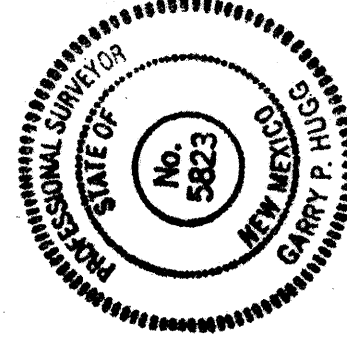
ACKNOWLEDGEMENT

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

This instrument was acknowledged before me on this 13th day of NOVEMBER, 1996.

Notary Public

My Commission expires: 12-18-2000



SURV+TEK, INC.

5643 Paradise Blvd., N.E. Albuquerque, New Mexico 87114
Phone: 505-897-3366
Fax: 505-897-3377

SHEET 2 OF 3

960271b2

NOTE: Flood hazard areas are currently shown on the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Maps (FIRM). The latest FIRM (FIRM number: 1305002E02) for the City of Albuquerque (Community Panel No. 3500022 0002 C, effective date October 14, 1983), Existing Improvements and the proposed drainage improvements to be constructed by the City of Albuquerque Special Assessment District No. 223 (SAD 223) are expected to minimize the flood hazard on the subject property. This request for a letter of map revision (LOMR) from FEMA and the supporting information are being submitted for the City's review and approval of the drainage report; however, the City does not guarantee FEMA approval of the request or issuance of a LOMR.

Additional street right of way dedicated to the City of Albuquerque in fee simple by this plat. Q.0338 A.C.
(shaded area)

Reserved for County Clerk Seal

TRACTS G-1A-2A THRU G-1A-2E
SEVEN - BAR RANCH
(BEING A REPLAT OF TRACT G-1A-2, SEVEN-BAR RANCH)
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
NOVEMBER, 1996

TRACTS A THRU I
COTTONWOOD CORNERS
Filed— June 7, 1998 Volume 96C, folio 250

TRACT M-1
SEVEN-BAR RANCH
Filed- January 6, 1995 Volume 95C folio 3

TRACT G-1A-1
SEVEN-BAR RANCH

Fd. 5/8" rebar and
aluminum cap stamped
"S 5823" in conc

LINE	DESCRIPTION	ESTIMATE
L1	250' x 100' W	3,100
L2	250' x 100' W	3,100
L3	250' x 100' W	3,100
L4	250' x 100' W	3,100
L5	250' x 100' W	3,100
L6	250' x 100' W	3,100
L7	250' x 100' W	3,100
L8	250' x 100' W	3,100
L9	250' x 100' W	3,100
L10	250' x 100' W	3,100
L11	250' x 100' W	3,100
L12	250' x 100' W	3,100
L13	250' x 100' W	3,100
L14	250' x 100' W	3,100
L15	250' x 100' W	3,100
L16	250' x 100' W	3,100
L17	250' x 100' W	3,100
L18	250' x 100' W	3,100
L19	250' x 100' W	3,100
L20	250' x 100' W	3,100
L21	250' x 100' W	3,100
L22	250' x 100' W	3,100
L23	250' x 100' W	3,100
L24	250' x 100' W	3,100
L25	250' x 100' W	3,100
L26	250' x 100' W	3,100
L27	250' x 100' W	3,100
L28	250' x 100' W	3,100
L29	250' x 100' W	3,100
L30	250' x 100' W	3,100

RIVERWALK MARKETPLACE
 First - November 17, 1989
 Volume C40, Folio 45

[illegible]

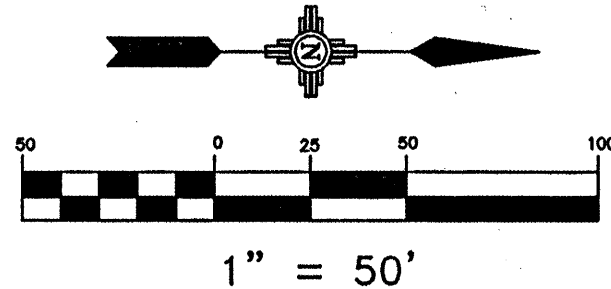
New Mexico State Highway Commission Monument "NM-448-N12"
New Mexico State Plane Coordinates
Central 1230.91 (NAD 27)
X = 11230.910.54
Y = 357108.54
Delta Alpha = -00713.46"
Ground to Grid Factor = 0.99957595
Elevation = 5023.41 feet (SLD 1929)

SURV  **TEK, INC.**
Consulting Surveyors
5643 Pennell Blvd. N.W., Albuquerque, New Mexico 87109

Page 3 OF 3

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960271P3



Flood Hazard Zone Line
sourced from FIRM Map
Number 350002 002 C
ZONE AO

7-BAR RANCH
TRACT M-1

FUTURE RIGHT TURN / DECELERATION
LANE IMPROVEMENTS BY OTHERS

EXISTING R/W

PROPOSED R/W

8' WIDE SIDEWALK AND
UTILITY EASEMENT

TRACT G-1A-2A

BASIN
2A1

1.3881 AC.

MIN. FFE
5037.50

CENTERLINE CURVE DATA
Δ = 18°42'38"
R = 200.00'
L = 68.33'

TRACT G-1A-2B

BASIN
2B1

1.3676 AC.

MIN. FFE
5037.50

CENTERLINE CURVE DATA
Δ = 79°17'14"
R = 215.00'
L = 297.52'

TRACT G-1A-2C

BASIN
2C

1.2868 AC.

MIN. FFE
5035.50

CENTERLINE CURVE DATA
Δ = 61°21'41"
R = 210.00'
L = 230.26'

TRACT G-1A-2D

BASIN
2D

1.4075 AC.

MIN. FFE
5035.00

CENTERLINE CURVE DATA
Δ = 61°21'41"
R = 210.00'
L = 230.26'

TRACT G-1A-2E

BASIN
2E

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2F

BASIN
2F

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2G

BASIN
2G

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2H

BASIN
2H

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2I

BASIN
2I

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2J

BASIN
2J

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2K

BASIN
2K

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2L

BASIN
2L

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2M

BASIN
2M

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2N

BASIN
2N

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2O

BASIN
2O

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2P

BASIN
2P

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2Q

BASIN
2Q

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2R

BASIN
2R

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2S

BASIN
2S

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2T

BASIN
2T

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2U

BASIN
2U

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2V

BASIN
2V

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2W

BASIN
2W

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2X

BASIN
2X

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2Y

BASIN
2Y

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2Z

BASIN
2Z

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2AA

BASIN
2AA

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2AB

BASIN
2AB

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2AC

BASIN
2AC

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2AD

BASIN
2AD

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2AE

BASIN
2AE

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
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R = 200.00'
L = 68.33'

TRACT G-1A-2AF

BASIN
2AF

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
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R = 200.00'
L = 68.33'

TRACT G-1A-2AG

BASIN
2AG

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
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TRACT G-1A-2AH

BASIN
2AH

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
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L = 68.33'

TRACT G-1A-2AI

BASIN
2AI

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
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L = 68.33'

TRACT G-1A-2AJ

BASIN
2AJ

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2AK

BASIN
2AK

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2AL

BASIN
2AL

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
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TRACT G-1A-2AM

BASIN
2AM

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
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TRACT G-1A-2AN

BASIN
2AN

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
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TRACT G-1A-2AO

BASIN
2AO

2.3141 AC.

MIN. FFE
5034.50

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TRACT G-1A-2AP

BASIN
2AP

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
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TRACT G-1A-2AQ

BASIN
2AQ

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
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R = 200.00'
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TRACT G-1A-2AR

BASIN
2AR

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
Δ = 19°04'04"
R = 200.00'
L = 68.33'

TRACT G-1A-2AS

BASIN
2AS

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
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R = 200.00'
L = 68.33'

TRACT G-1A-2AT

BASIN
2AT

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
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R = 200.00'
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TRACT G-1A-2AU

BASIN
2AU

2.3141 AC.

MIN. FFE
5034.50

CENTERLINE CURVE DATA
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TRACT G-1A-2AV

BASIN
2AV

2.3141 AC.

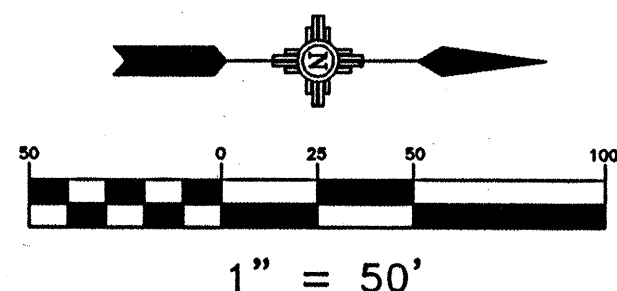
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CENTERLINE CURVE DATA
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TRACT G-1A-2AW

BASIN
2AW

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Flood Hazard Zone Line
scaled from FIRM Map
Number 350002 002 C
ZONE AO

RECORD DRAWING

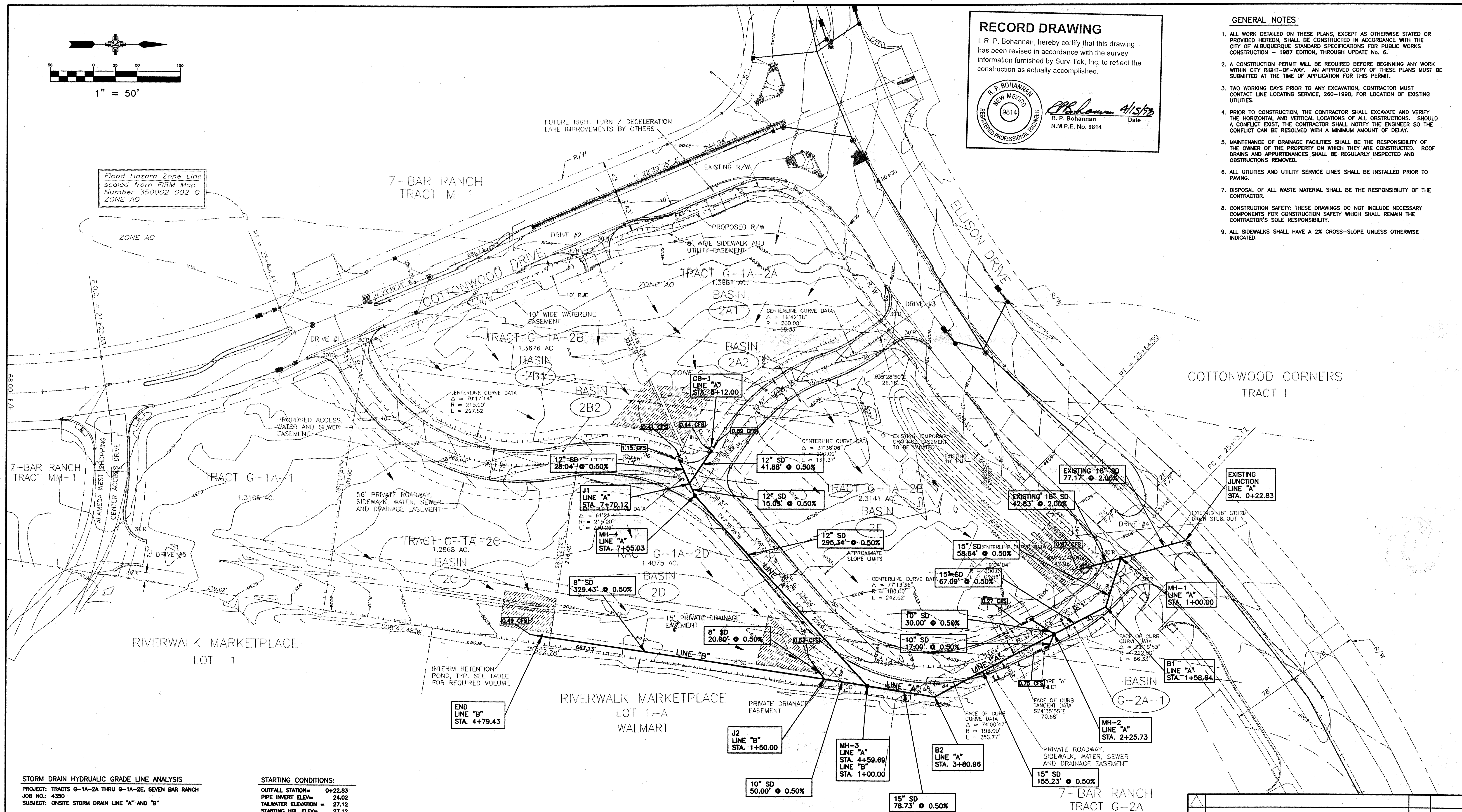
I, R. P. Bohannon, hereby certify that this drawing
has been revised in accordance with the survey
information furnished by Surv-Tek, Inc. to reflect the
construction as actually accomplished.



R. P. Bohannon 4/15/97
R. P. Bohannon Date
N.M.P.E. No. 9814

GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1987 EDITION, THROUGH UPDATE NO. 6.
2. A CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. MAINTENANCE OF DRAINAGE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY ON WHICH THEY ARE CONSTRUCTED. ROOF DRAINS AND APPURTENANCES SHALL BE REGULARLY INSPECTED AND OBSTRUCTIONS REMOVED.
6. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
7. DISPOSAL OF ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. CONSTRUCTION SAFETY: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE CONTRACTOR'S SOLE RESPONSIBILITY.
9. ALL SIDEWALKS SHALL HAVE A 2% CROSS-SLOPE UNLESS OTHERWISE INDICATED.



STORM DRAIN HYDRAULIC GRADE LINE ANALYSIS

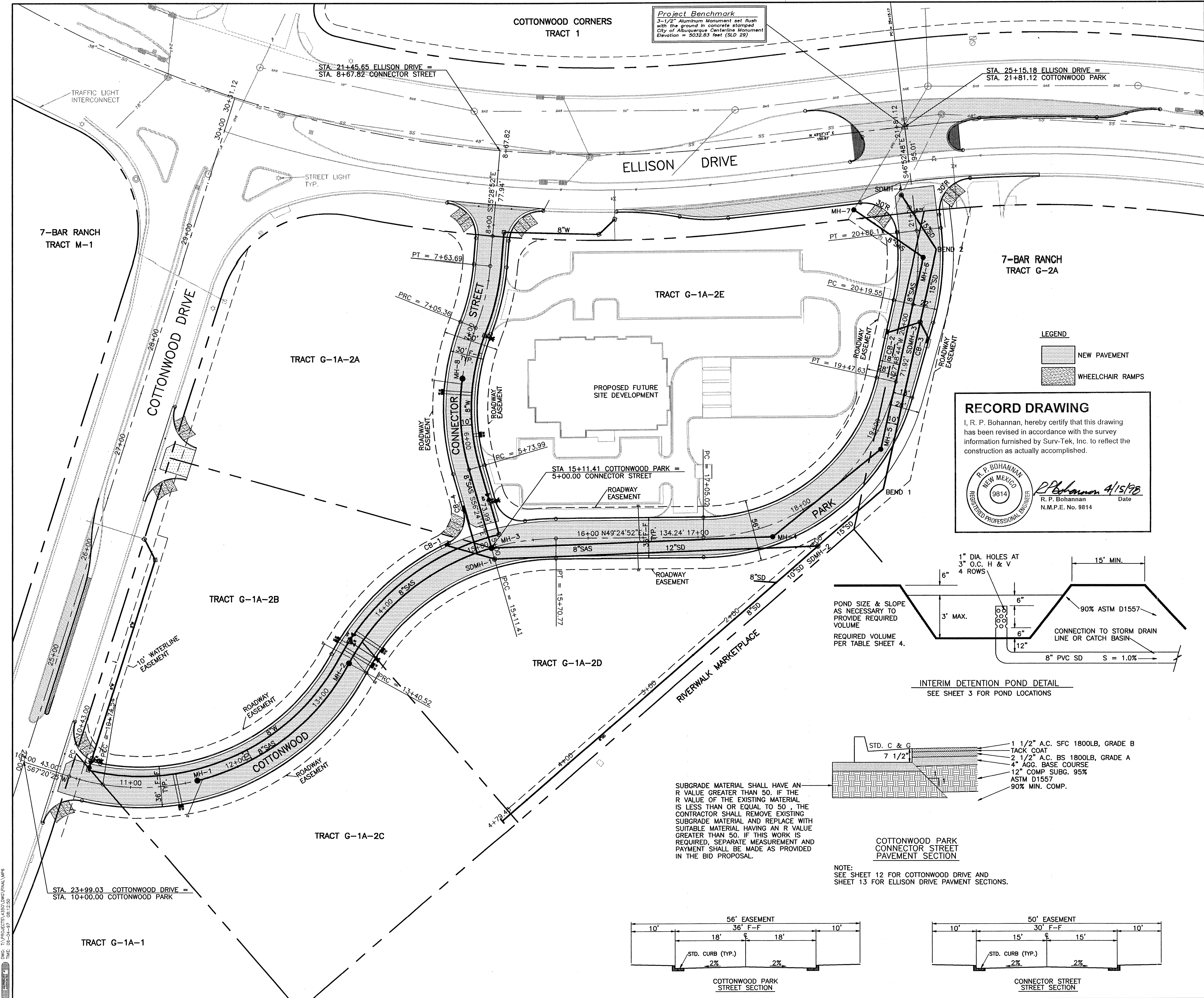
PROJECT: TRACTS G-1A-2A THRU G-1A-2E, SEVEN BAR RANCH
JOB NO.: 4350
SUBJECT: ONSITE STORM DRAIN LINE "A" AND "B"

STARTING CONDITIONS:

OUTFALL STATION= 0+22.83
PIPE INVERT ELEV.= 24.02
TAILWATER ELEVATION = 27.12
STARTING HGL ELEV.= 27.12
STARTING GROUND ELEV.= 32.19

PIPE DATA		STRUCTURE(S) @ UPSTREAM END										PIPE ELEVATION DATA				GROUND ELEV				PRESSURE FLOW HYDRAULICS				HEAD LOSS CALCULATIONS						EGL & HGL @ UPSTREAM END OF PIPE SEGMENT						HGL BELOW GROUND?			
FROM	TO	STA, OFFSET	MAIN FLOW (cfs)	PIPE DIA. (inches)	MANNING COEFF. ("n")	LAY LENGTH (feet)	PIPE SLOPE (ft/ft)	MANHOLE LOSS (1=year)	BEND ANGLE (degrees)	JUNCTION ANGLE (degrees)	LATERAL DIAMETER (inches)	TRANSITION LOSS (1=year)	PIPE DOWN STREAM (elev.)	INVERT UP STREAM (elev.)	PIPE DOWN STREAM (elev.)	SOFFIT UP STREAM (elev.)	DOWN STREAM (elev.)	UP STREAM (elev.)	FLOW AREA (sq.ft.)	FLOW VELOCITY (fps)	FLOW DEPTH (feet)	FRICITION SLOPE (ft/ft)	VELOCITY HEAD (feet)	FRICITION LOSS Hf	MANHOLE LOSS Hm	BEND LOSS Hb	JUNCTION LOSS HJ	TRANS LOSS Htx	TRANS LOSS Htco	SUM OF LOSSES	STORM DRAIN STA	EGL ELEV. BACK	EGL ELEV. AHEAD	HGL ELEV. BACK	HGL ELEV. AHEAD	DEFAULT HGL ELEV	PIPE FULL?	FINISHED GROUND ELEV	CHECK
LINE "A"																																							
OUTFALL	MH1	STA 1+00.00	5.74	18	0.013	77.17	0.020	1	55	1	18	1	24.02	25.56	25.52	27.06	32.2	32.4	1.767	3.25	1.50	0.003	0.164	0.230	0.008	0.026	0.023	0.000	0.000	0.287	0+77.17	27.51	27.57	27.35	27.41	27.41	FULL	32.40	OK
MH1	B1	STA 1+58.64	4.87	15	0.013	58.64	0.005		45				25.81	26.11	27.06	27.36	32.4	33.1	1.227	3.97	1.25	0.006	0.245	0.333	0.000	0.035	0.000	0.000	0.000	0.368	1+35.81	27.99	28.02	27.74	27.78	27.78	FULL	33.10	OK
B1	MH2	STA 2+25.73	4.87	15	0.013	67.09	0.005	1		60	10		26.11	26.44	27.36	27.69	33.1	32.6	1.227	3.97	1.25	0.006	0.245	0.381	0.012	0.000	0.152	0.000	0.000	0.546	2+02.9	28.47	28.52	28.16	28.32	28.32	FULL	32.60	OK
MH2	B2	STA 3+80.96	3.91	15	0.013	155.23	0.005		37				26.44	27.22	27.69	28.47	32.6	33.5	1.227	3.19	1.25	0.004	0.158	0.589	0.000	0.020	0.000	0.000	0.000	0.589	3+58.13	29.05	29.07	28.88	28.91	28.91	FULL	33.50	OK
B2	MH3	STA 4+59.69	3.91	15	0.013	78.73	0.005	1	40	1	10	1	27.22	27.61	28.47	28.86	33.5	31.5	1.227	3.19	1.25	0.004	0.158	0.288	0.008	0.021	0.003	0.000	0.000	0.320	4+36.88	29.36	29.39	29.20	29.23	29.23	FULL	31.50	OK
MH3	MH4	STA 7+55.03	2.89	12	0.013	295.34	0.005	1	18				27.86	29.34	28.86	30.34	31.5	35.8	0.785	3.68	1.00	0.007	0.210	1.943	0.011	0.019	0.000	0.000	0.000	1.973	7+32.2	31.38	31.41	31.17	31.20	31.20	FULL	35.80	OK
MH4	J1	STA 7+70.12	2.89	12	0.013	15.09	0.005		60	1	12		29.34	29.41	30.34	30.41	35.8	35.9	0.785	3.68	1.00	0.007	0.210	0.099	0.000	0.034	0.209	0.000	0.000	0.343	7+47.29	31.51	31.78	31.30	31.55	31.55	FULL	35.90	OK
J1	B1	STA 8+12.00	1.33	12	0.013	41.88	0.005						29.41	29.62	30.41	30.62	35.9	35.9	0.785	1.69	1.00	0.001	0.045	0.058	0.000	0.000	0.000	0.000	0.000	0.058	7+88.17	31.85	31.85	31.60	31.60	31.60	FULL	35.90	OK
B1	DUMMY																																						
LINE "B"																																							
MH3	J2	STA 1+50.00	1.02	10	0.013	50.00	0.005						28.03	28.28	28.86	29.11	31.5	32.5	0.545	1.87	0.83	0.002	0.054	0.108	0.000	0.000	0.045	0.000	0.000	0.154	0+50.00	29.39	29.44	29.34	29.38	29.38	FULL	32.50	OK
J2	END	STA 4+79.43	0.49	8	0.013	329.43	0.005						28.45	30.09	29.11	30.76	32.5	32.7	0.349	1.40	0.67	0.002	0.031	0.542	0.000	0.000	0.000	0.000	0.000	0.542	3+79.43	29.96	29.96	29.93	29.93	30.76	(PARTIAL)	32.70	OK
END	DUMMY																																						

NO.	REVISIONS	BY	DATE
TRACTS G-1A-2A THRU G-1A-2E SEVEN BAR RANCH GRADING & DRAINAGE PLAN STORM DRAIN HYDRAULIC GRADE LINE ANALYSIS			
Easterling & Associates, Inc. CONSULTING ENGINEERS 10131 Coors Rd., NW, Suite H-7 Albuquerque, New Mexico 87114 (505) 898-8021 FAX (505) 898-8501			
DESIGNED BY: RPB	DRAWN BY: DEC	CHECKED BY: RPB	SHEET 2 OF 2
EAI JOB NO: 4350	DATE: 1-97		
CITY PROJECT No. 566181 SHEET 5 OF 16			



CITY OF ALBUQUERQUE STANDARD DRAWINGS FOR STORM DRAIN AND PAVING TO BE USED FOR THIS PROJECT (ALL SHEETS).

STORM DRAIN
2102 MANHOLE TYPE "E".
2201 STORM INLET DOUBLE TYPE "A".

PAVING
2405 RESIDENTIAL STREET SECTION
2408 ART./COLL. ST. SECTION WITH MEDIAN
2415 CURB AND GUTTER
2420 CONCRETE VALLEY GUTTER
2430 SIDEWALKS (OFFSET TYPES).
2441 WHEEL CHAIR RAMPS (CASE II).
2465 PAVEMENT CUTS FOR UTILITIES.

NEW MEXICO UTILITIES STANDARD DRAWINGS FOR SANITARY SEWER AND WATER TO BE USED FOR THIS PROJECT (TYP. FOR ALL SHEETS).

WATER
EXHIBIT "A" 1" METER SET
EXHIBIT "C" METER BOX & LID
EXHIBIT "D" METER BOX LOCATION

CITY OF ALBUQUERQUE STANDARD DRAWINGS FOR SANITARY SEWER AND WATER TO BE USED FOR THIS PROJECT (TYP. FOR ALL SHEETS).

SEWER
2102 MANHOLE TYPE "E".
2465 PAVEMENT CUTS FOR UTILITIES.

WATER
2315 PIPE TRENCH TERMINOLOGY.
2320 CONCRETE BLOCK DESIGN.
2340 FIRE HYDRANT INSTALLATION.

WATER SERVICE LOCATIONS

LOT	STA. @ PL	INV. ELEV. @ PL
G-1A-1	11+42	5038.2
G-1A-2C	13+48	5038.2
G-1A-2B	13+50	5035.0
G-1A-2D	13+52	5035.1
G-1A-2E	13+66	5035.0
G-1A-2A	6+41	5035.0
G-1A-2A	6+43	5035.0

EACH LOT SHALL HAVE A SEPARATE WATER SERVICE FOR IRRIGATION.

6" DIA. SEWER SERVICE LOCATIONS

LOT	STA. @ PL	INV. ELEV. @ PL
G-1A-1	11+47.48	5030.22
G-1A-2B	13+44.94	5028.94
G-1A-2C	13+37.21	5028.92
G-1A-2D	16+45.66	5026.94
G-1A-2E	16+45.66	5027.08
G-1A-2A	6+53.41	5028.76

RECORD DRAWING
I, R. P. Bohannon, hereby certify that this drawing has been revised in accordance with the survey information furnished by Surv-Tek, Inc. to reflect the construction as actually accomplished.

LEGEND
NEW PAVEMENT
WHEELCHAIR RAMPS

INTERIM DETENTION POND DETAIL
SEE SHEET 3 FOR POND LOCATIONS

COTTONWOOD PARK CONNECTOR STREET PAVEMENT SECTION

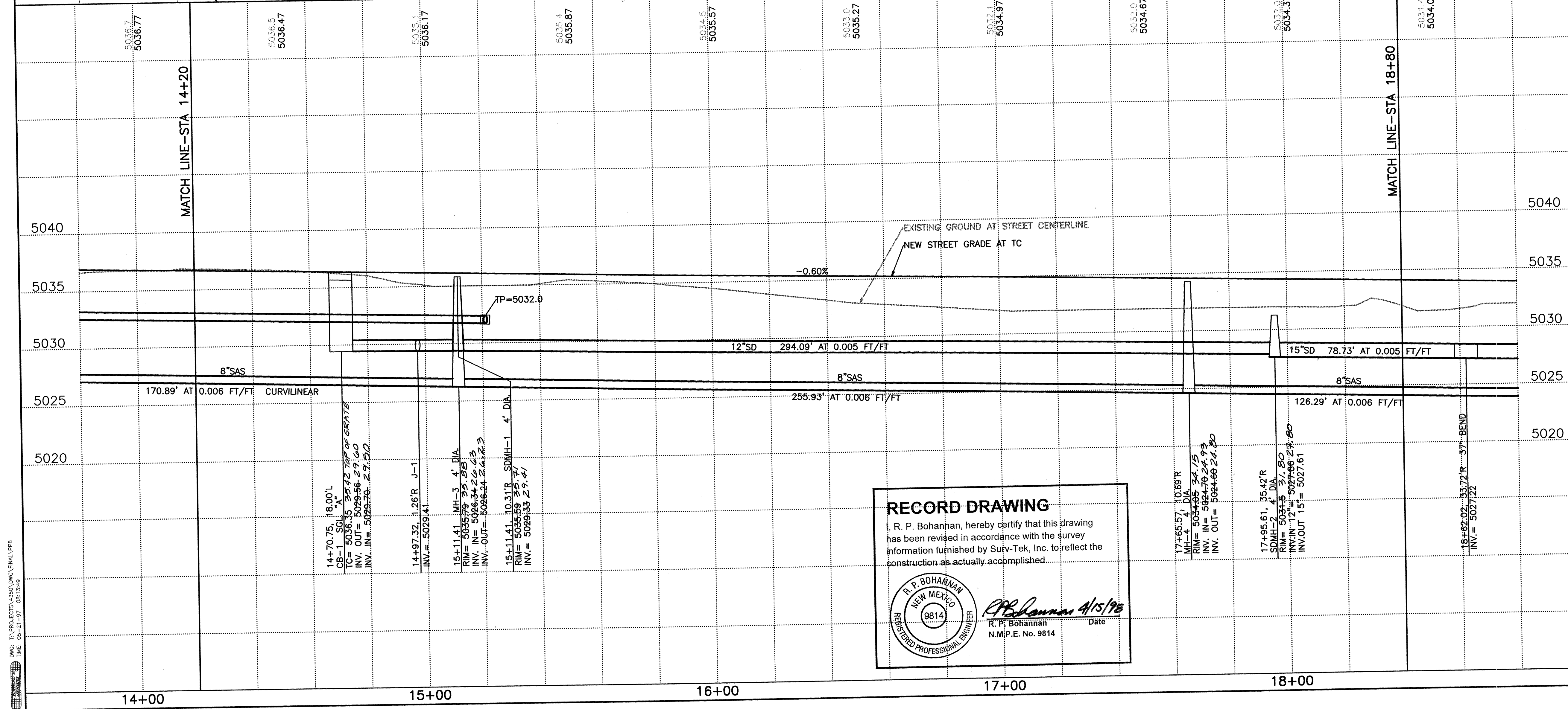
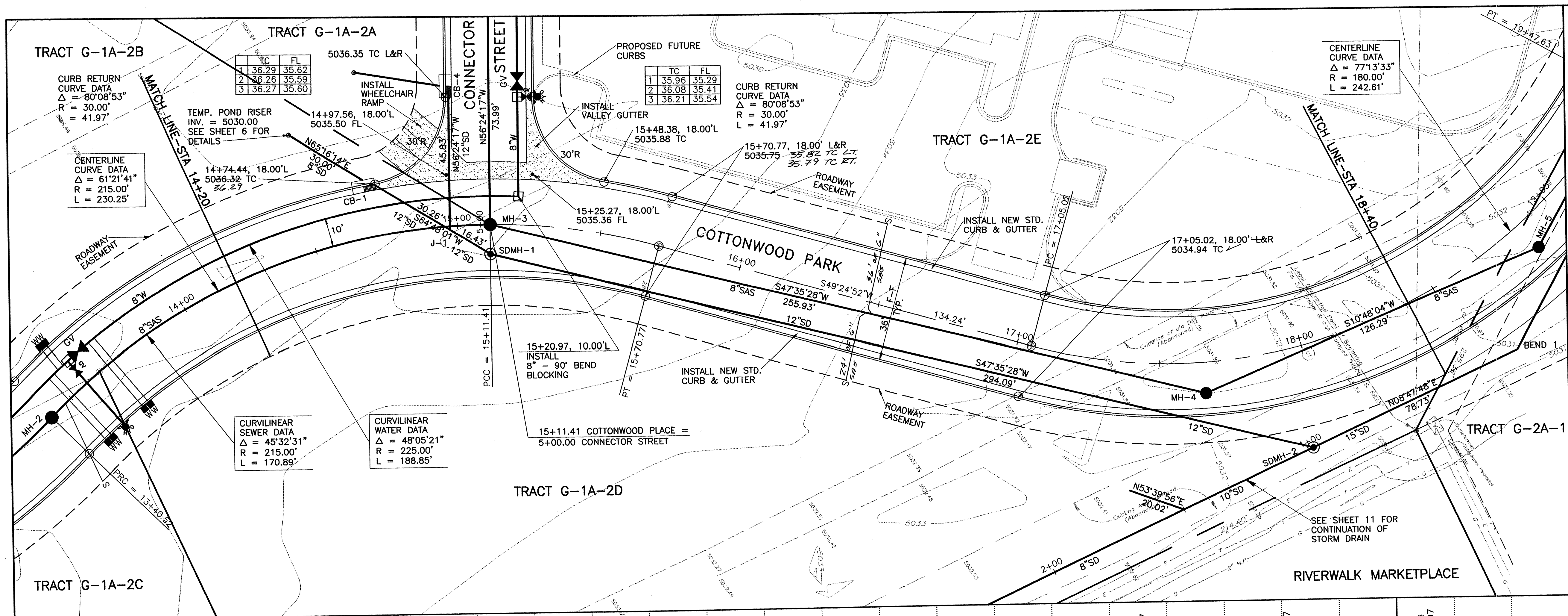
NOTE:
SEE SHEET 12 FOR COTTONWOOD DRIVE AND SHEET 13 FOR ELLISON DRIVE PAVEMENT SECTIONS.

DESIGN REVIEW COMMITTEE

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL

CITY PROJECT No. 566181 **ZONE MAP No.** A-14 **SHEET** 6 **OF** 16

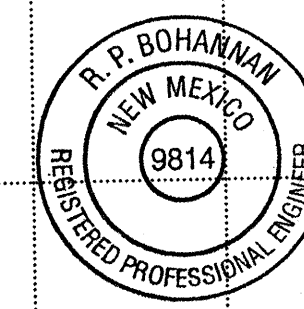
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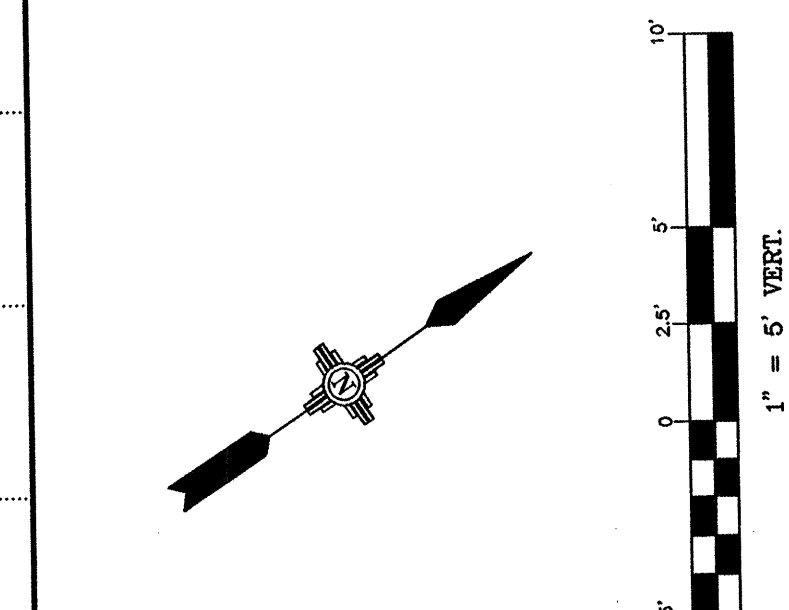
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TIME: 08:21:37

RECORD DRAWING

I, R. P. Bohannon, hereby certify that this drawing has been revised in accordance with the survey information furnished by Suiv-Tek, Inc. to reflect the construction as actually accomplished.



R. P. Bohannon 4/15/98
R. P. Bohannon
N.M.P.E. No. 9814



Easterling & Associates, Inc.
CONSULTING ENGINEERS
10131 Coors Rd., NW, Suite H-7
Albuquerque, New Mexico 87114
(505) 898-8021 FAX (505) 898-8501

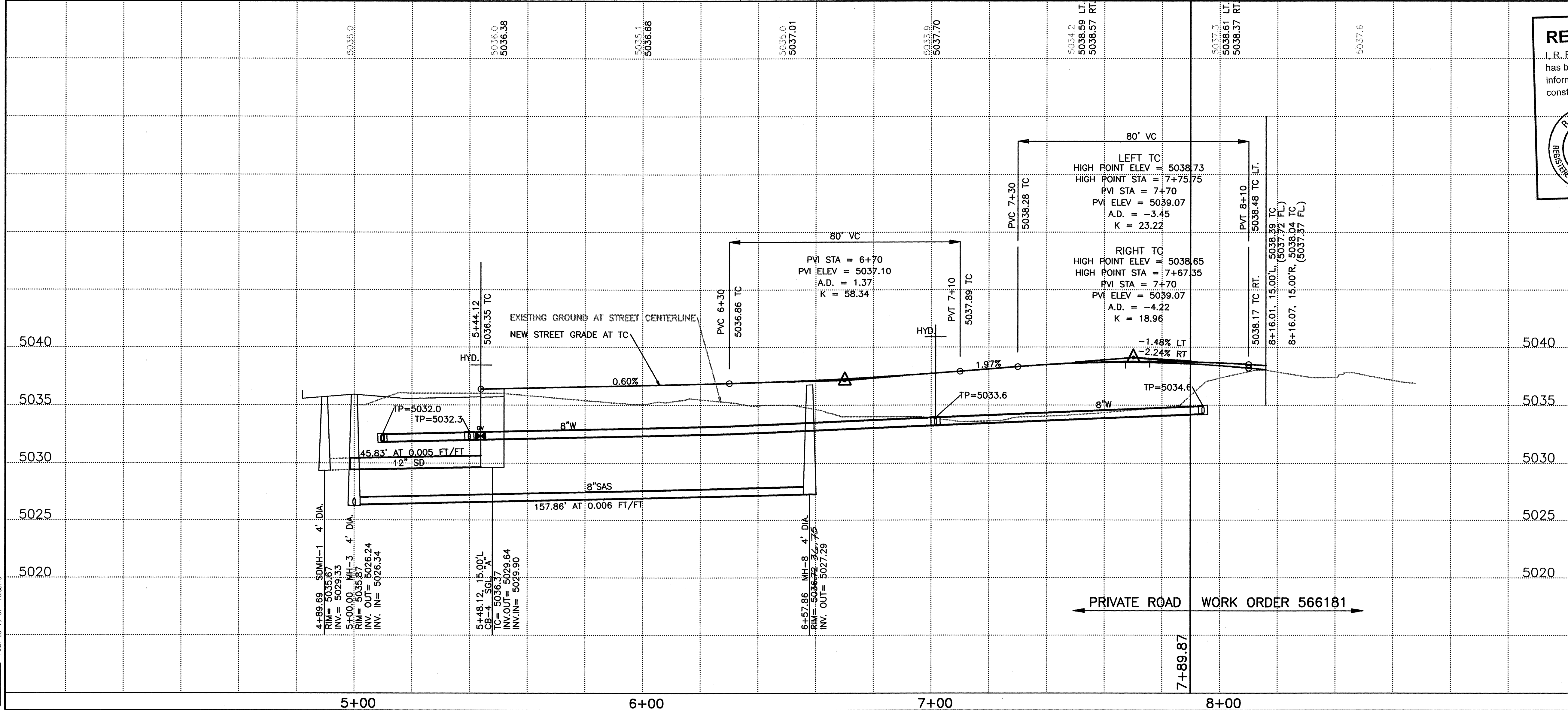
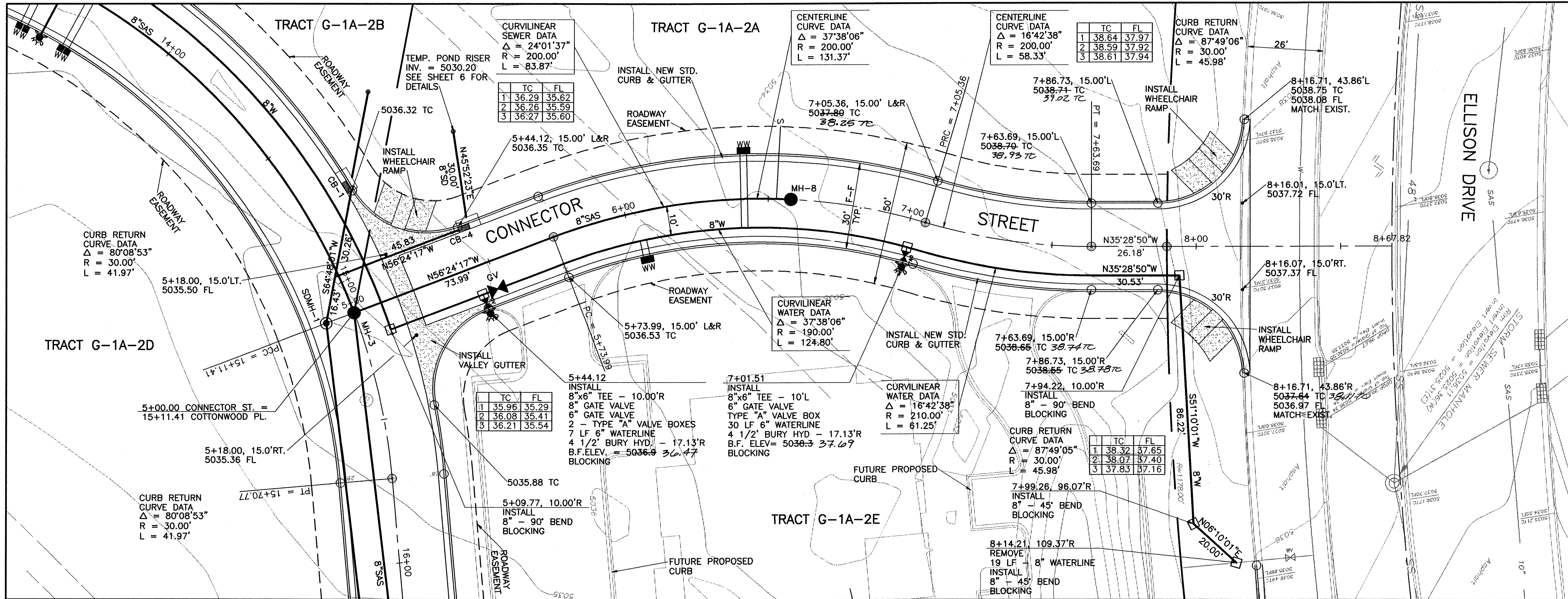
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
TRACTS G-1A-2A THRU G-1A-2E
COTTONWOOD PARK
STREET, WATER, SEWER & STORM DRAIN PLAN & PROFILE

DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL	
APPROVED DESIGN REVIEW COMMITTEE	DATE	BY	Ms./DAY/YR.
			Ms./DAY/YR.
			Ms./DAY/YR.
			Ms./DAY/YR.

CITY PROJECT No. 566181 ZONE MAP No. A-14 SHEET 8 OF 16

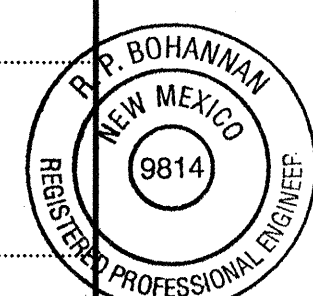
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NO.	BY	DATE	CONTRACTOR	DATE	DATE

ENGINEER'S SEAL		REMARKS	
NO.	DATE	BY	Ms./DAY/YR.
			Ms./DAY/YR.
			Ms./DAY/YR.
			Ms./DAY/YR.

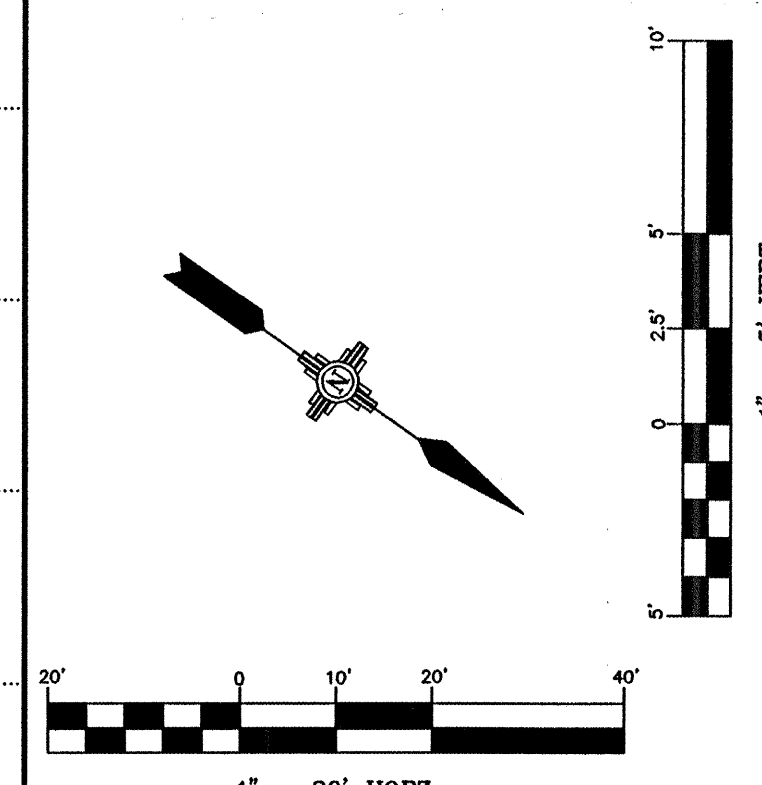


RECORD DRAWING

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R. P. Bohannon 4/15/97
R. P. Bohannon
N.M.P.E. No. 9814



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CONSULTING ENGINEERS
10131 Coors Rd., NW, Suite H-7
Albuquerque, New Mexico 87114
(505) 898-8021 FAX (505) 898-8501

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

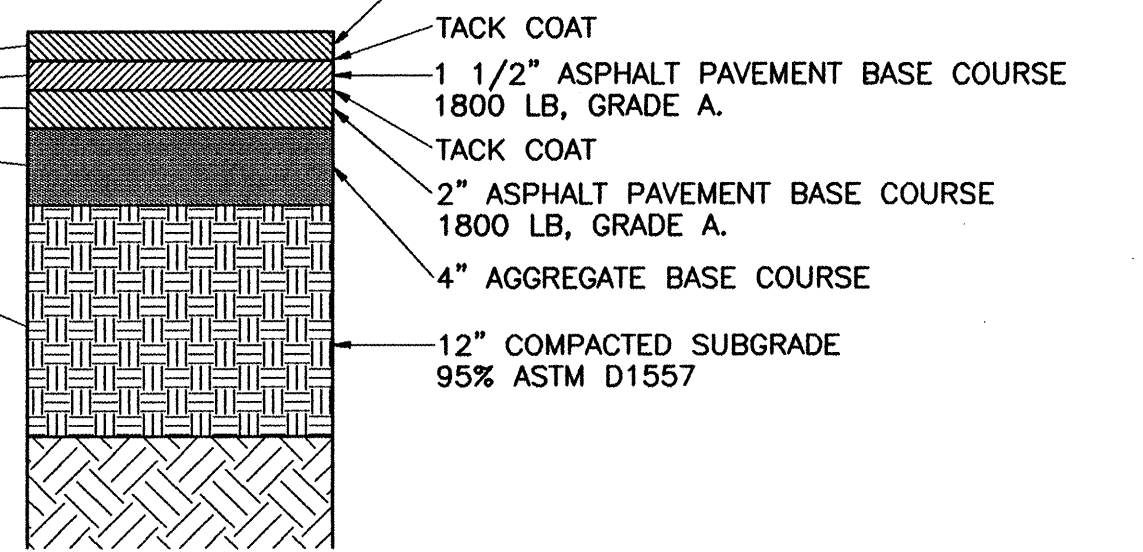
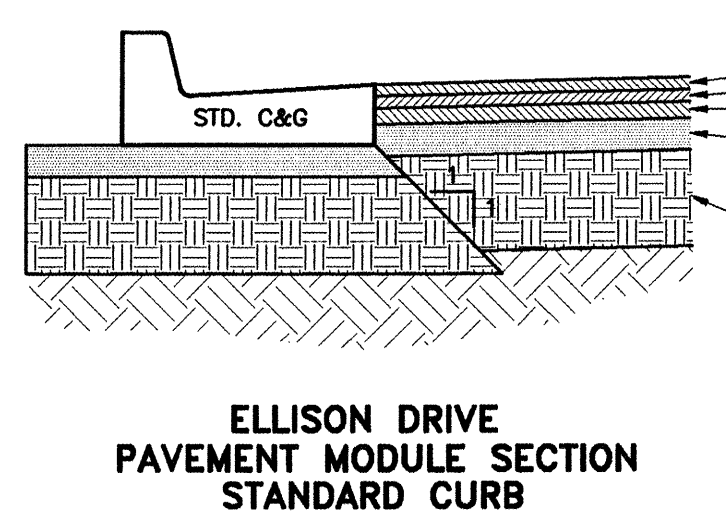
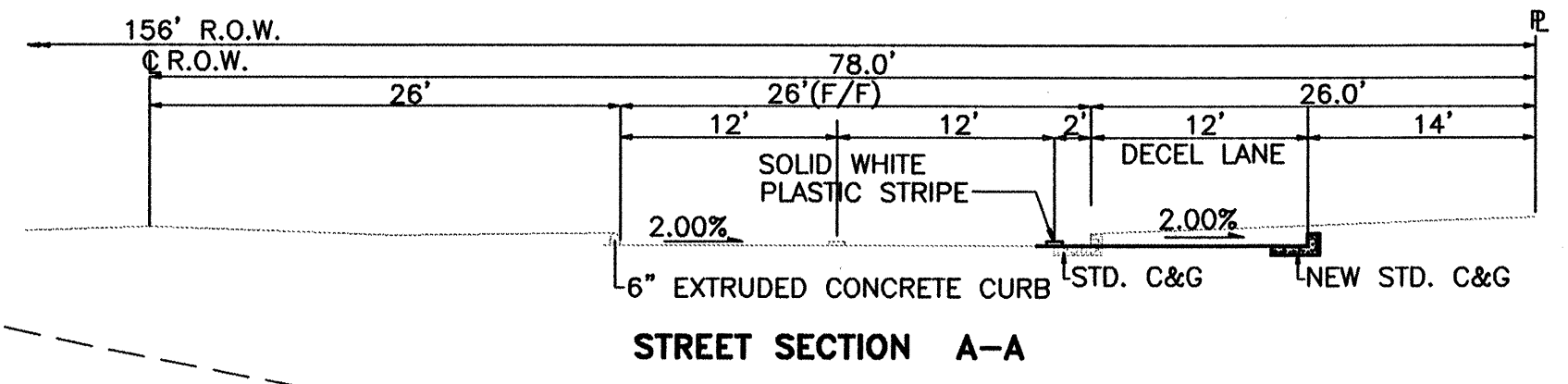
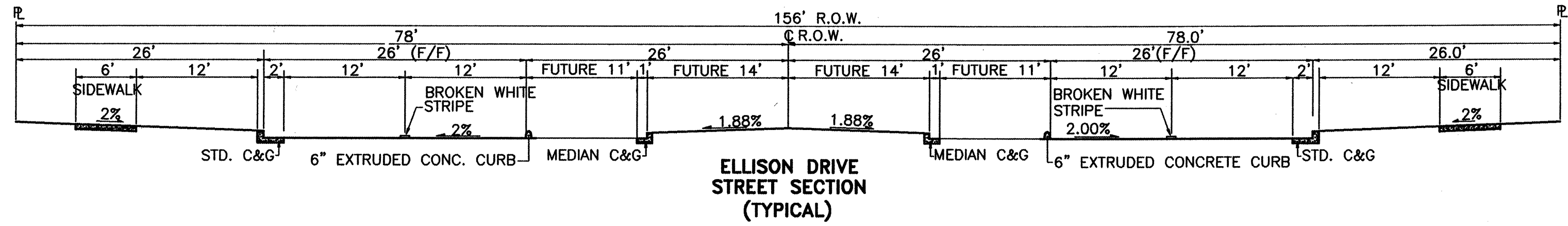
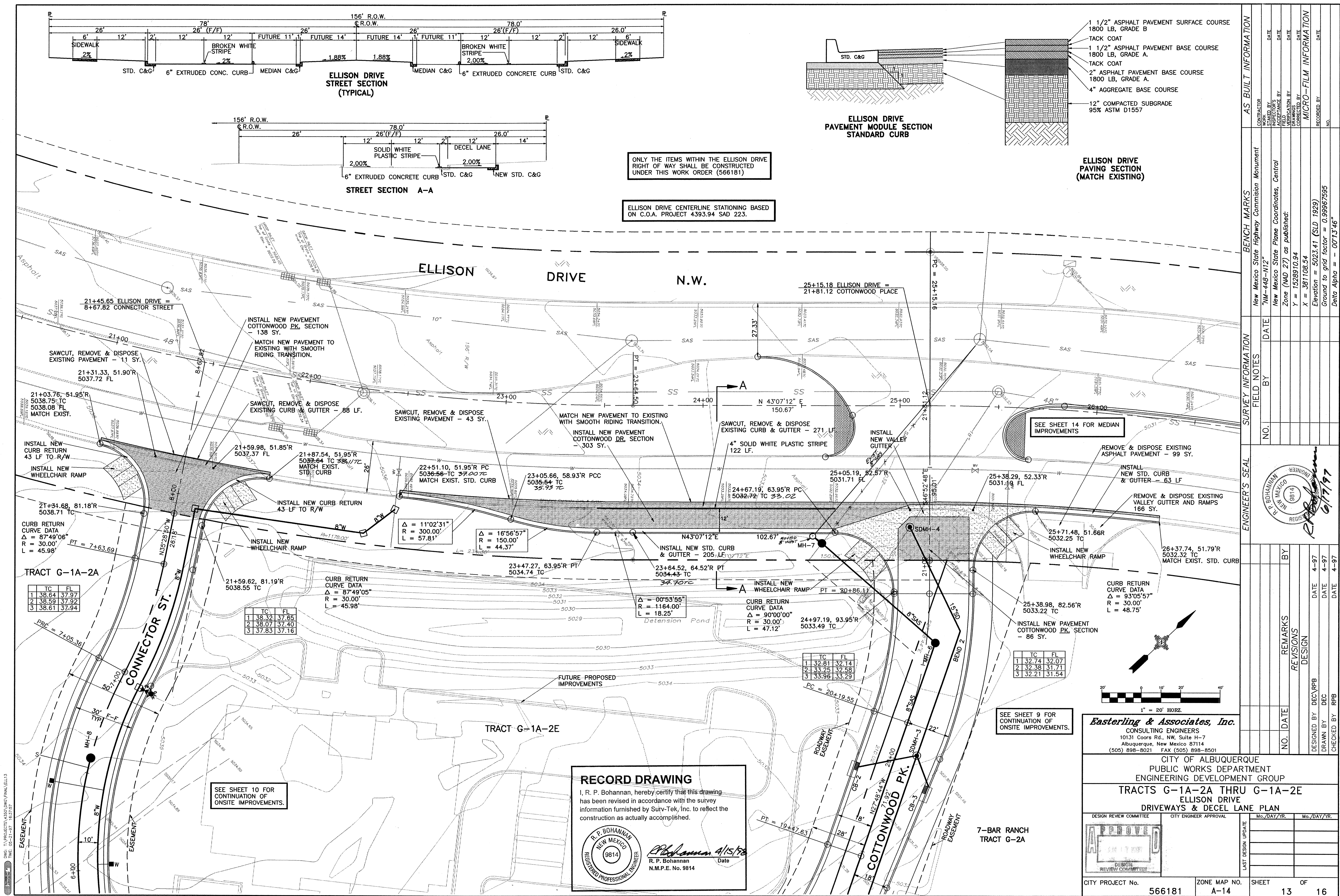
**TRACTS G-1A-2A THRU G-1A-2E
CONNECTOR STREET
STREET, WATER, SEWER & STORM DRAIN PLAN & PROFILE**

DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		Mo./DAY/YR.	
	DESIGN		REVIEW	Mo./DAY/YR.	Mo./DAY/YR.
	REVIEW		COMMITTEE		
	APPROVED				
CITY PROJECT No.		ZONE MAP No.		SHEET OF	
566181		A-14		10 16	

SURVEY INFORMATION			BENCH MARKS		AS BUILT INFORMATION			
NO.	FIELD NOTES		DATE		CONTRACTOR			
	BY				WORK	DATE	STAKE BY	DATE
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					DRAWINGS CORRECTED BY	DATE	FIELD VERIFICATION BY	DATE
					MICRO-FILM INFORMATION			
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			</					

ENGINEER'S SEAL	
	NO.
	DATE
	BY
	DATE

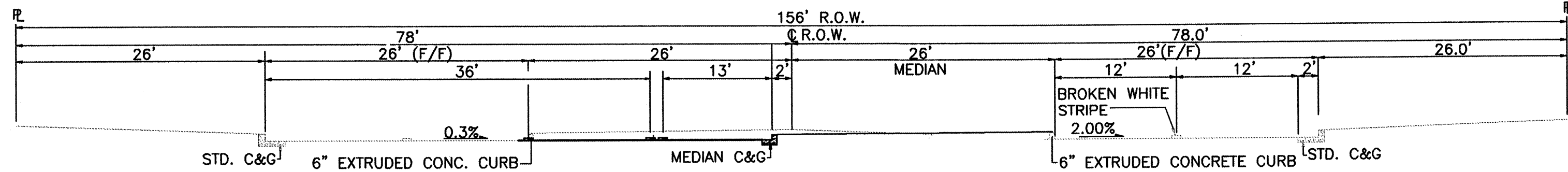
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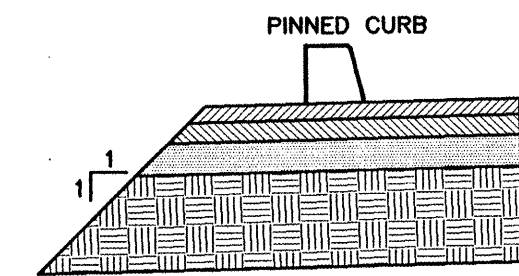
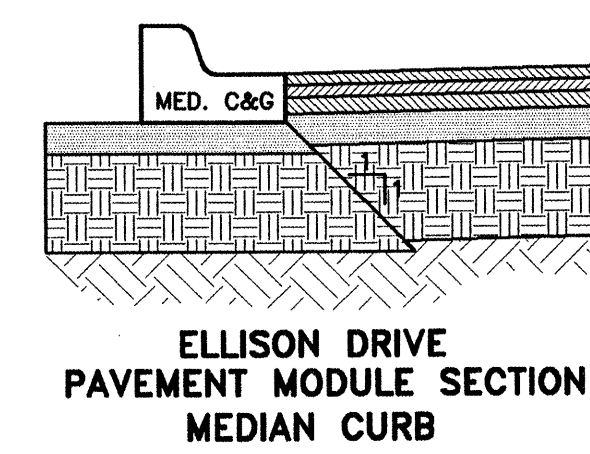
ONLY THE ITEMS WITHIN THE ELLISON DRIVE RIGHT OF WAY SHALL BE CONSTRUCTED UNDER THIS WORK ORDER (566181)

ELLISON DRIVE CENTERLINE STATIONING BASED ON C.O.A. PROJECT 4393.94 SAD 223.

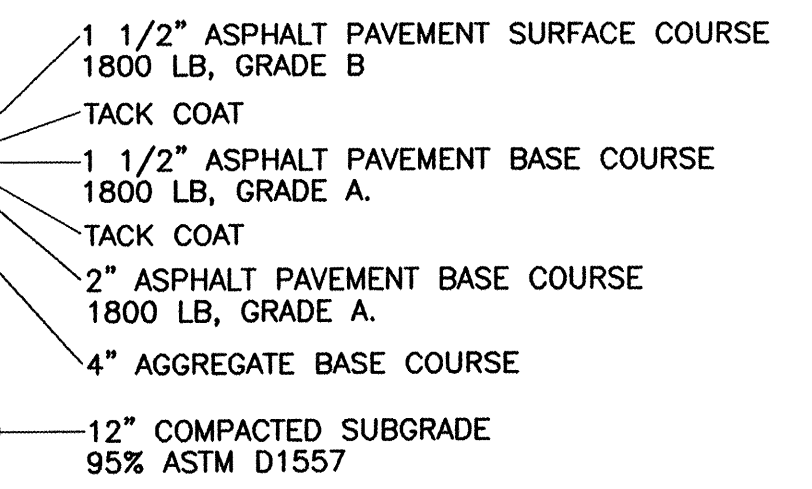
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CONTRACTOR	DATE	INSPECTOR'S	DATE	CONTRACTOR	DATE	INSPECTOR'S	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
NEW Mexico State Highway Commission		NEW Mexico State Highway Commission		NEW Mexico State Highway Commission		NEW Mexico State Highway Commission									
Zone (NAD 27) as published:		Zone (NAD 27) as published:		Zone (NAD 27) as published:		Zone (NAD 27) as published:									
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X = 38110854		X = 38110854		X = 38110854		X = 38110854									
Elevation = 5023.41 (SLD 1929)		Elevation = 5023.41 (SLD 1929)		Elevation = 5023.41 (SLD 1929)		Elevation = 5023.41 (SLD 1929)									
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Delta Alpha = -001'346"		Delta Alpha = -001'346"		Delta Alpha = -001'346"		Delta Alpha = -001'346"									
REVISIONS				REVISIONS				REVISIONS				REVISIONS			
NO.	DATE	BY	REMARKS	NO.	DATE	BY	REMARKS	NO.	DATE	BY	REMARKS	NO.	DATE	BY	REMARKS
1	4-97	DEC/RPB	DESIGN	1	4-97	DEC/RPB	DESIGN	1	4-97	DEC/RPB	DESIGN	1	4-97	DEC/RPB	DESIGN
2	4-97	DEC/RPB	DESIGN	2	4-97	DEC/RPB	DESIGN	2	4-97	DEC/RPB	DESIGN	2	4-97	DEC/RPB	DESIGN
3	4-97	DEC/RPB	DESIGN	3	4-97	DEC/RPB	DESIGN	3	4-97	DEC/RPB	DESIGN	3	4-97	DEC/RPB	DESIGN
CITY OF ALBUQUERQUE				CITY OF ALBUQUERQUE				CITY OF ALBUQUERQUE				CITY OF ALBUQUERQUE			
PUBLIC WORKS DEPARTMENT				PUBLIC WORKS DEPARTMENT				PUBLIC WORKS DEPARTMENT				PUBLIC WORKS DEPARTMENT			
ENGINEERING DEVELOPMENT GROUP				ENGINEERING DEVELOPMENT GROUP				ENGINEERING DEVELOPMENT GROUP				ENGINEERING DEVELOPMENT GROUP			
TRACTS G-1A-2A THRU G-1A-2E				TRACTS G-1A-2A THRU G-1A-2E				TRACTS G-1A-2A THRU G-1A-2E				TRACTS G-1A-2A THRU G-1A-2E			
DRIVEWAYS & DECAL LANE PLAN				DRIVEWAYS & DECAL LANE PLAN				DRIVEWAYS & DECAL LANE PLAN				DRIVEWAYS & DECAL LANE PLAN			
DESIGN REVIEW COMMITTEE				DESIGN REVIEW COMMITTEE				DESIGN REVIEW COMMITTEE				DESIGN REVIEW COMMITTEE			
CITY ENGINEER APPROVAL				CITY ENGINEER APPROVAL				CITY ENGINEER APPROVAL				CITY ENGINEER APPROVAL			
Mo./DAY/YR.				Mo./DAY/YR.				Mo./DAY/YR.				Mo./DAY/YR.			
CITY PROJECT No.				CITY PROJECT No.				CITY PROJECT No.				CITY PROJECT No.			
566181				566181				566181				566181			
ZONE MAP NO.				ZONE MAP NO.				ZONE MAP NO.				ZONE MAP NO.			
A-14				A-14				A-14				A-14			
SHEET				SHEET				SHEET				SHEET			
13				13				13				13			
OF				OF				OF				OF			
16				16				16				16			



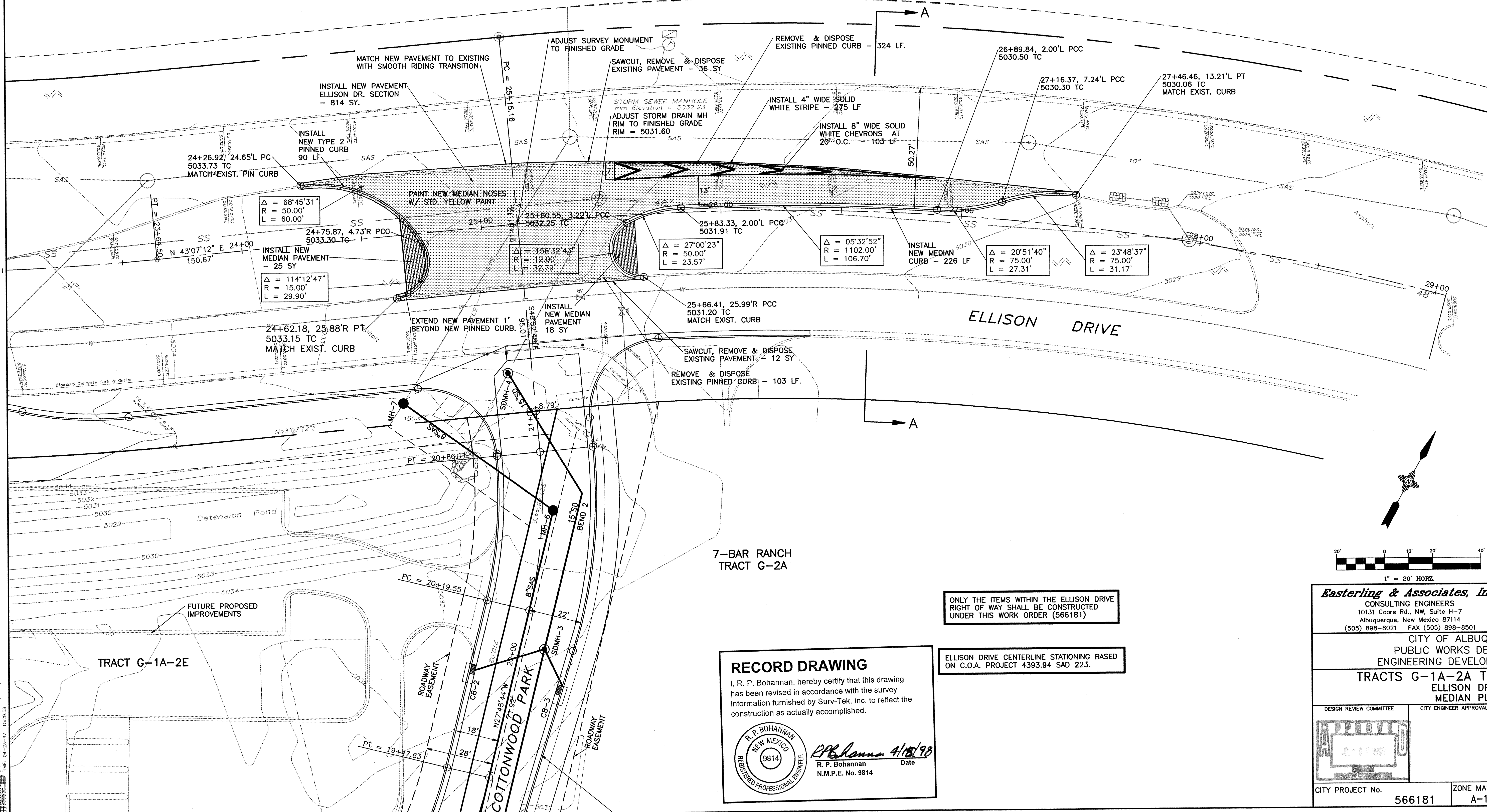
STREET SECTION A-A



COTTONWOOD DRIVE PAVEMENT MODULE SECTION PINNED CURB

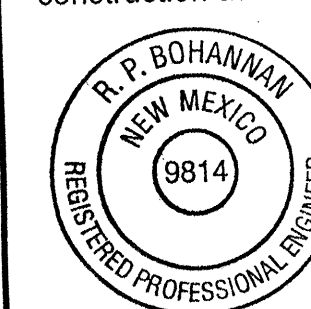


ELLISON DRIVE PAVING SECTION



RECORD DRAWING

I, R. P. Bohannon, hereby certify that this drawing has been revised in accordance with the survey information furnished by Surv-Tek, Inc. to reflect the construction as actually accomplished.



R. P. Bohannon 4/18/98
R. P. Bohannon
N.M.P.E. No. 9814

ONLY THE ITEMS WITHIN THE ELLISON DRIVE RIGHT OF WAY SHALL BE CONSTRUCTED UNDER THIS WORK ORDER (566181)

ELLISON DRIVE CENTERLINE STATIONING BASED ON C.O.A. PROJECT 4393.94 SAD 223.

Easterling & Associates, Inc.
CONSULTING ENGINEERS
10131 Coors Rd., NW, Suite H-7
Albuquerque, New Mexico 87114
(505) 898-8021 FAX (505) 898-8501

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

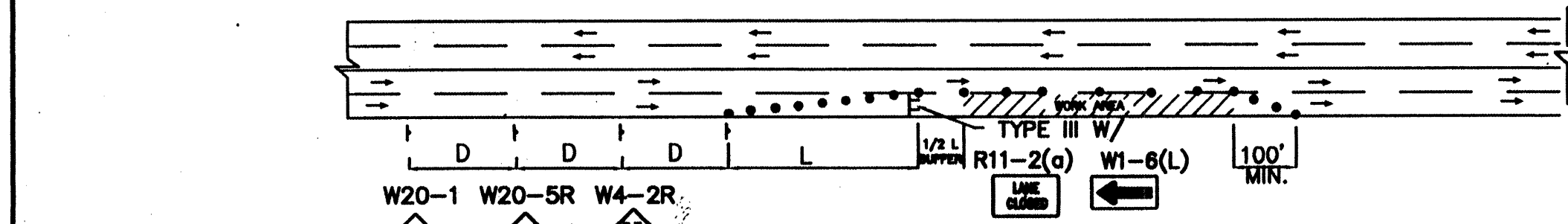
TRACTS G-1A-2A THRU G-1A-2E
ELLISON DRIVE
MEDIAN PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	Mo./DAY/YR.	Mo./DAY/YR.
APPROVED			
LAST DESIGN UPDATE			
CITY PROJECT No.	ZONE MAP No.	SHEET	OF
566181	A-14	14	16

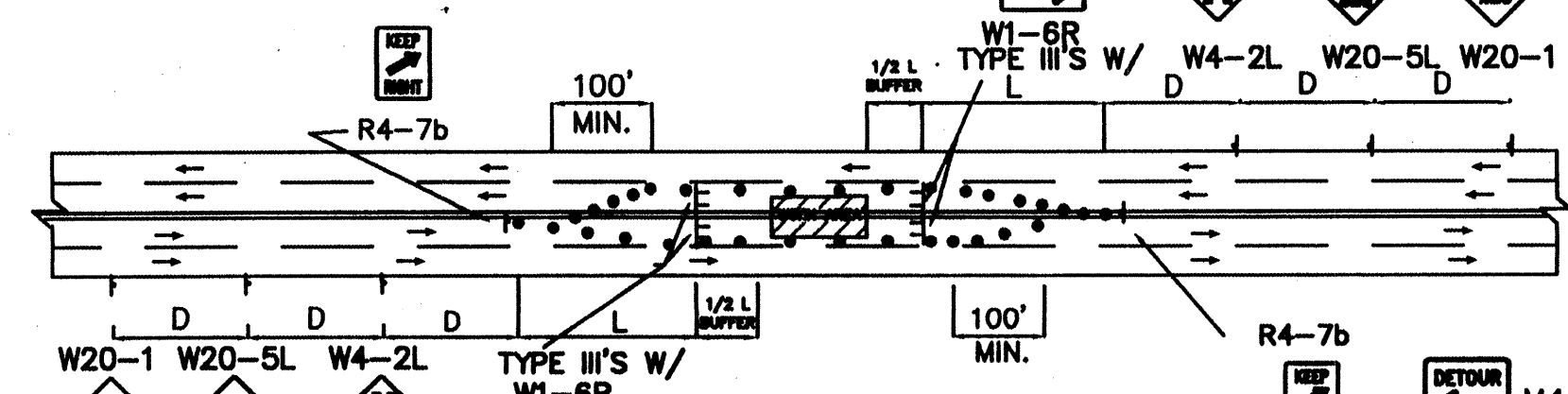
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		"NM-448-N12"			
		New Mexico State Plane Coordinates, Central			
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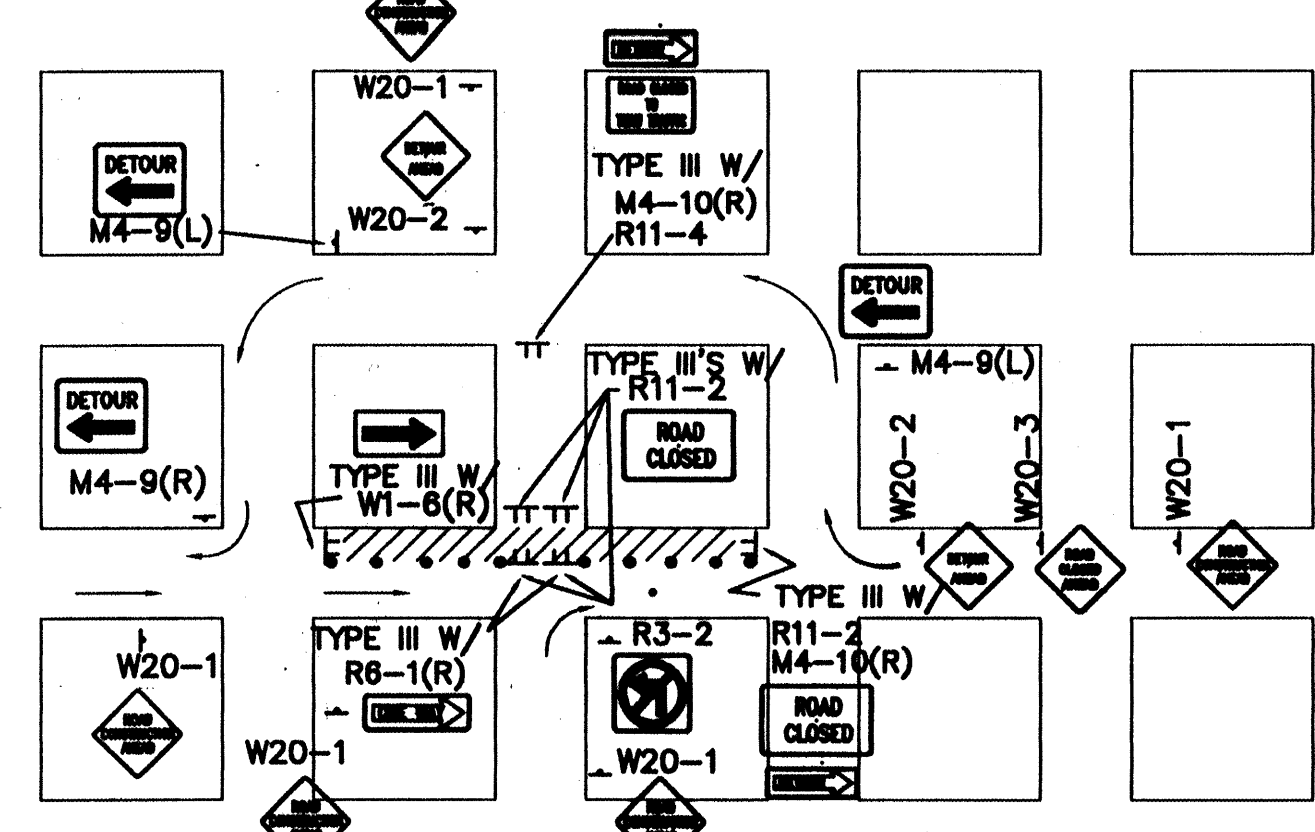
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		DESIGN	
DESIGNED BY	DATE		
DRAWN BY	DATE		
CHECKED BY	DATE		
DEC/RPB	3-97		
DEC	3-97		
RPB	3-97		



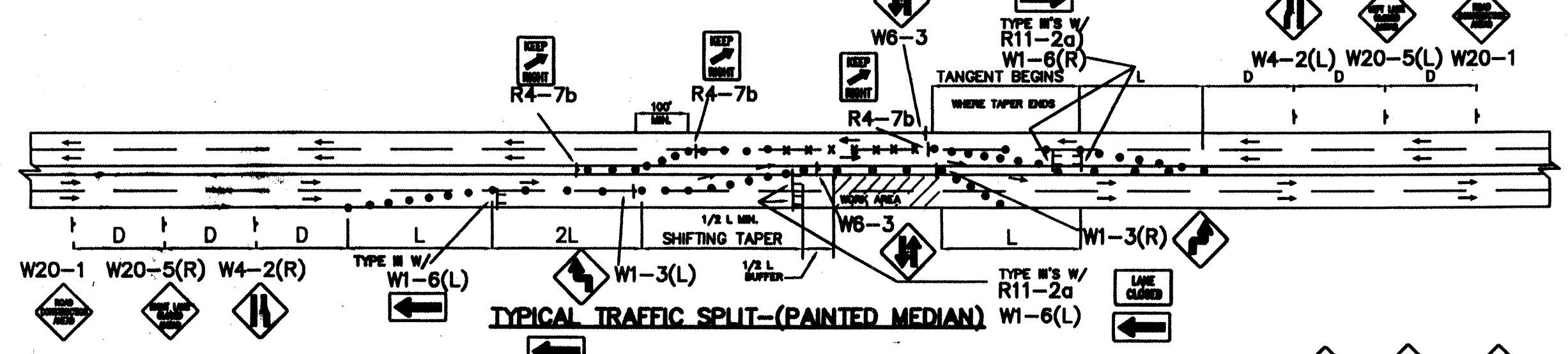
TYPICAL RIGHT LANE CLOSURE



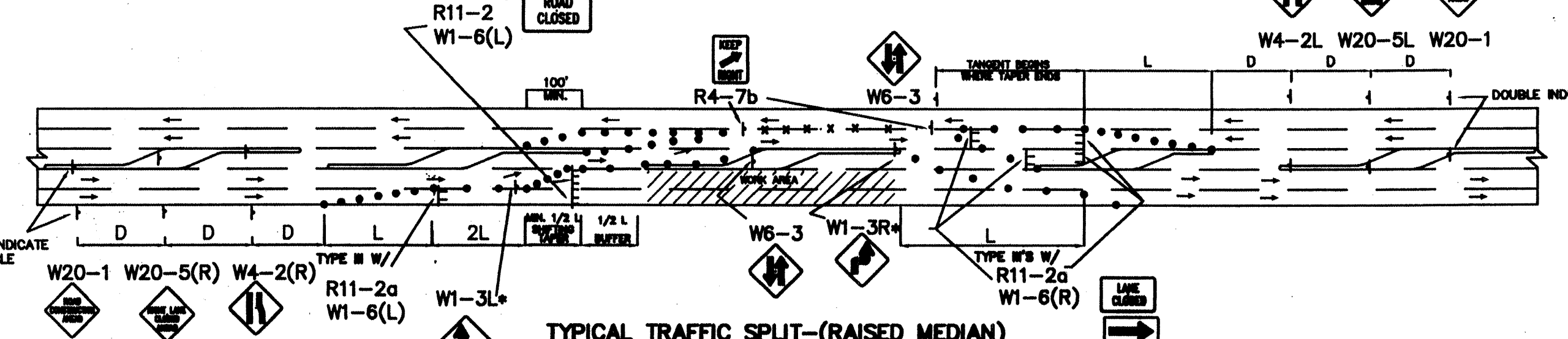
TYPICAL LEFT LANE CLOSURE



TYPICAL ONE DIRECTION DETOUR



TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)

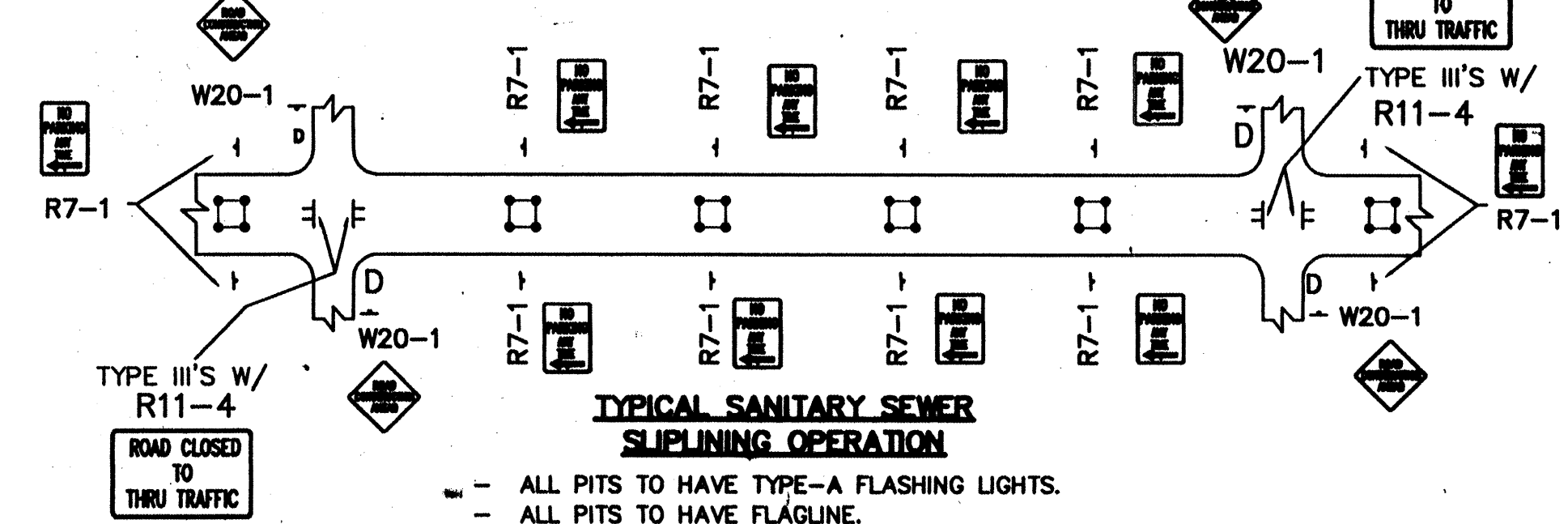


TYPICAL TRAFFIC SPLIT-(RAISED MEDIAN)

- TRAFFIC SPLIT NOTES:
1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
 2. 1/2 L IS MINIMUM DISTANCE FOR SHIFTING TAPERS.
 3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
 4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
 5. REDUCED SPEED MAY BE CONSIDERED.
 6. * USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.

GENERAL NOTE:

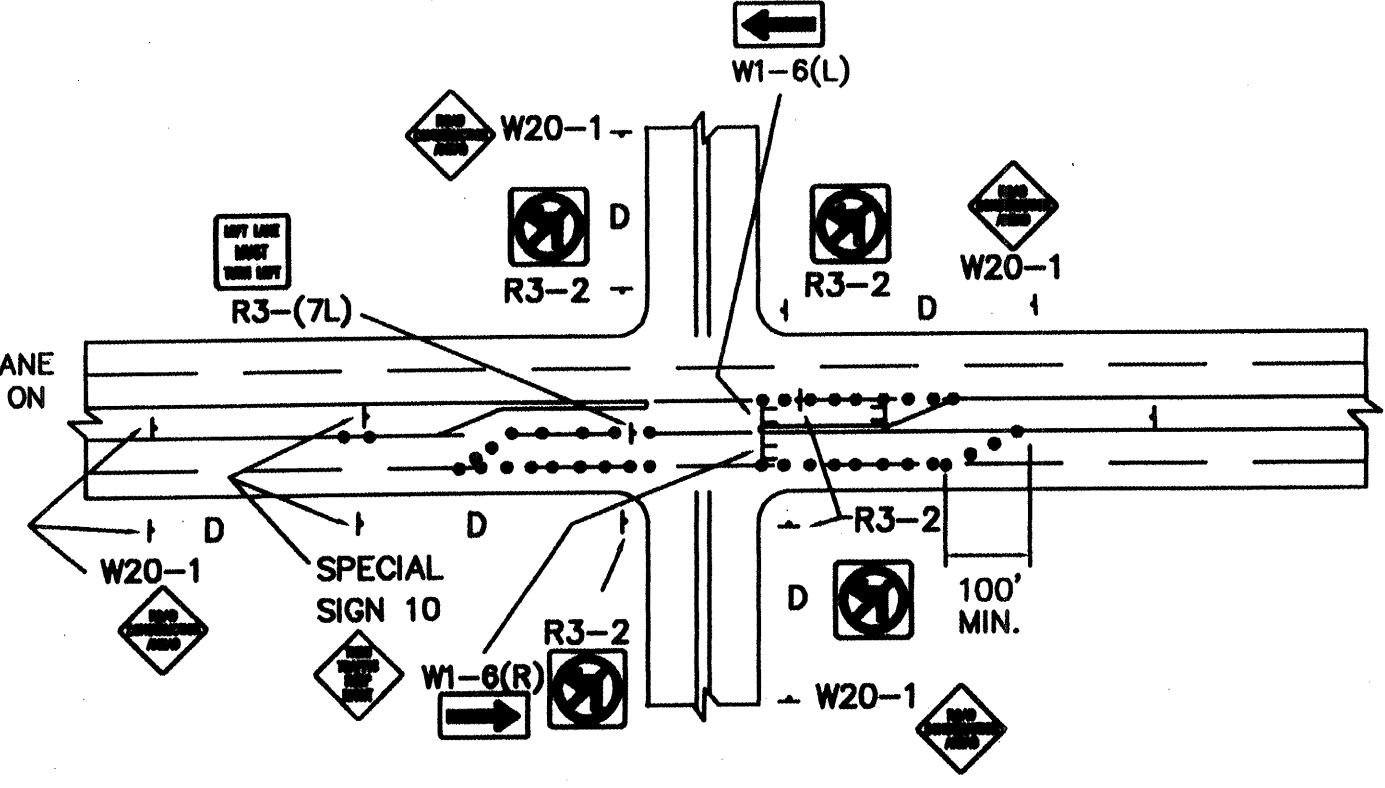
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.
ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



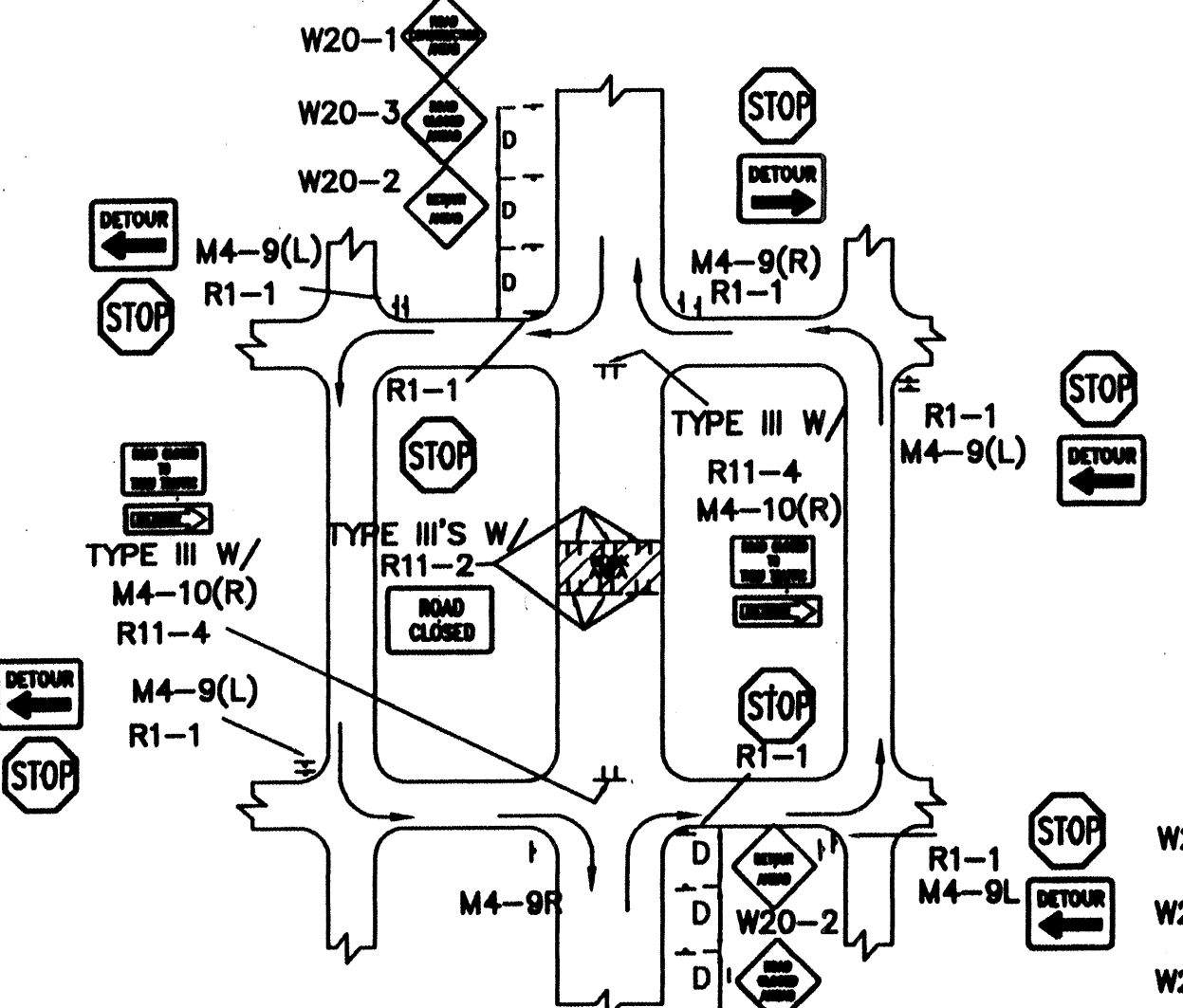
TYPICAL SANITARY SEWER SLIPLINING OPERATION

- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS.
- ALL PITS TO HAVE FLAGLINE.

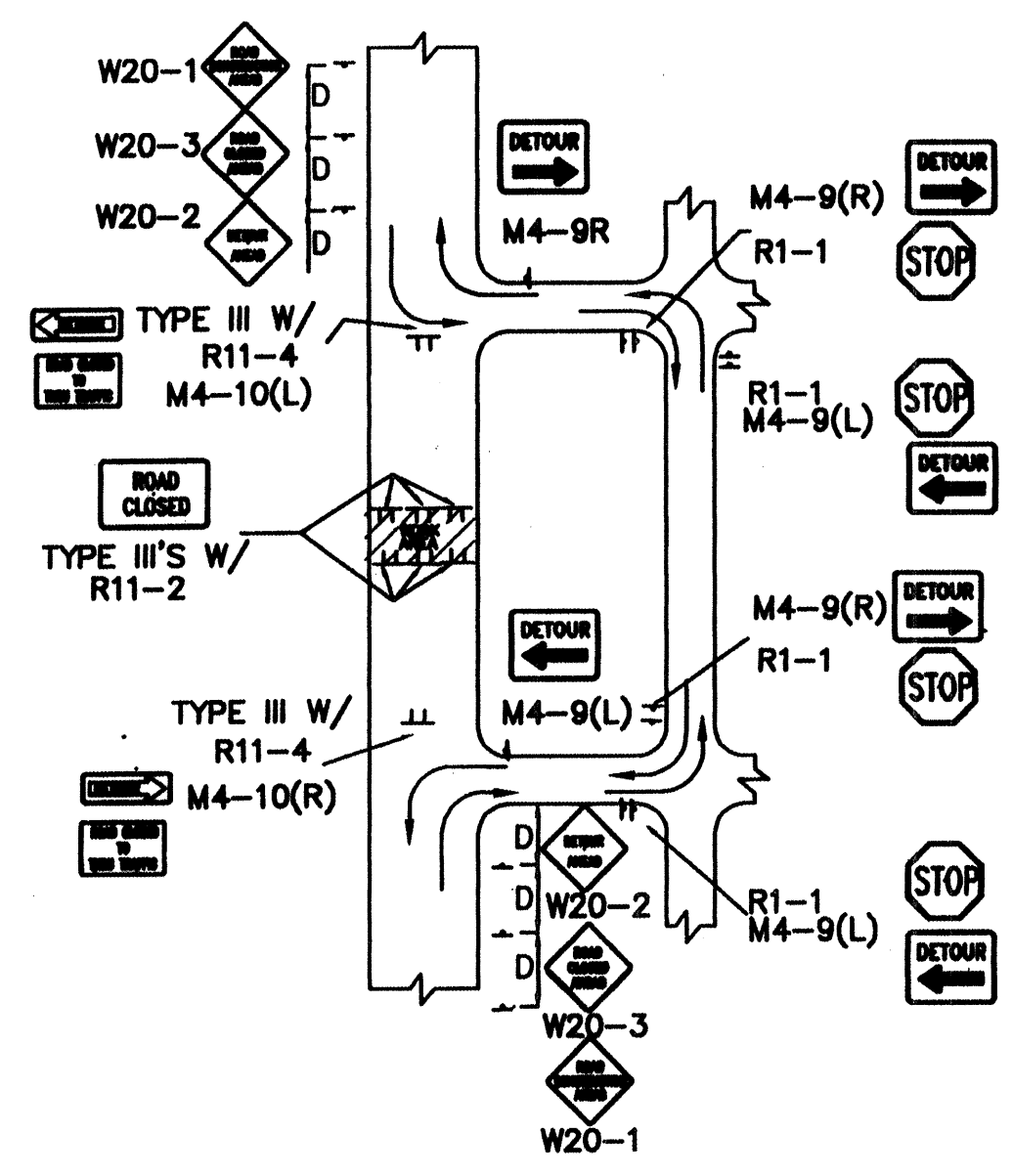
NOTE: MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.



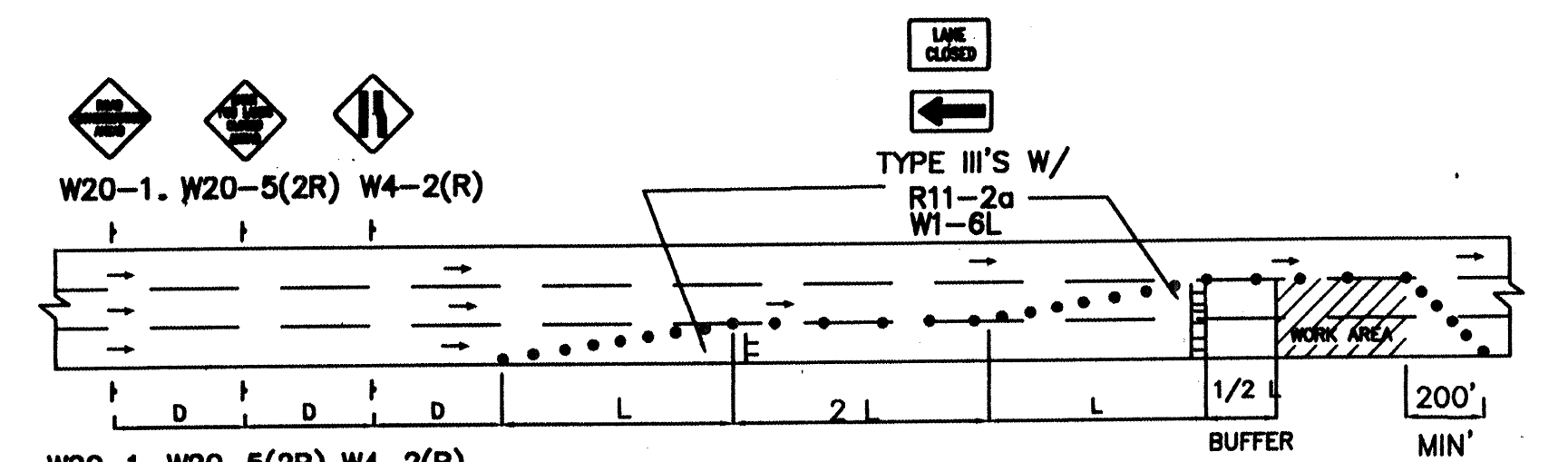
TYPICAL LANE CLOSURE AT INTERSECTION
NOTE: DEPENDING ON WORK ZONE LOCATION



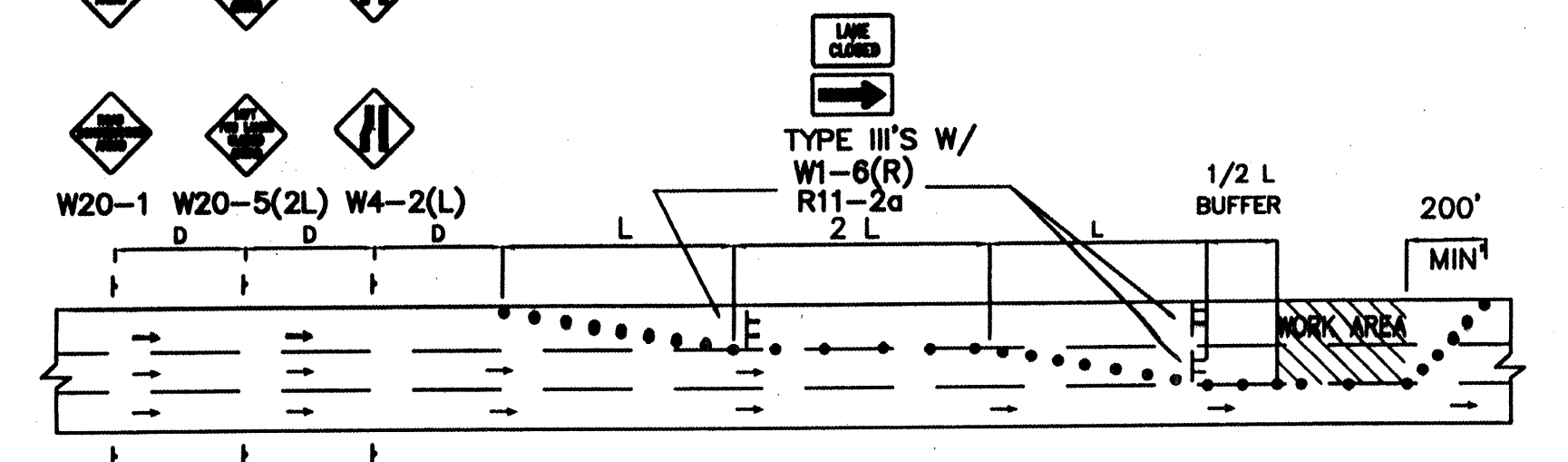
TYPICAL MID-BLOCK CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



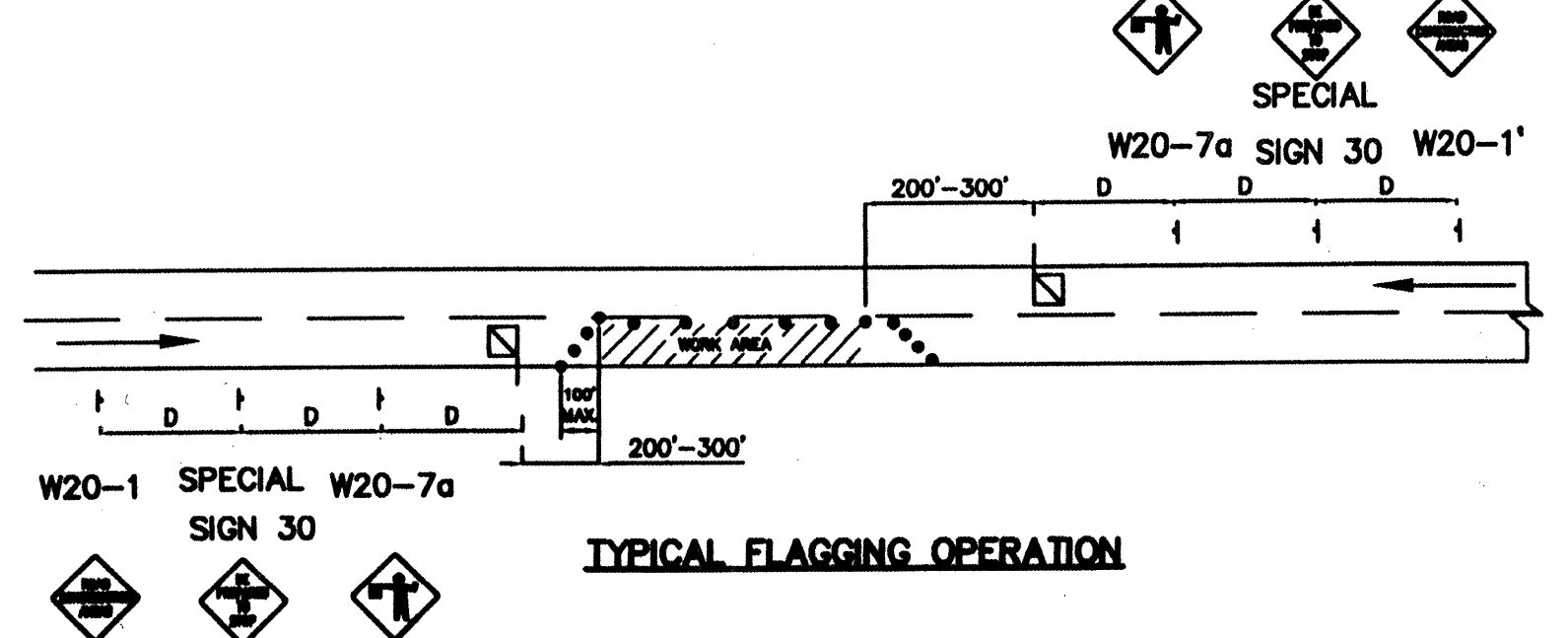
TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



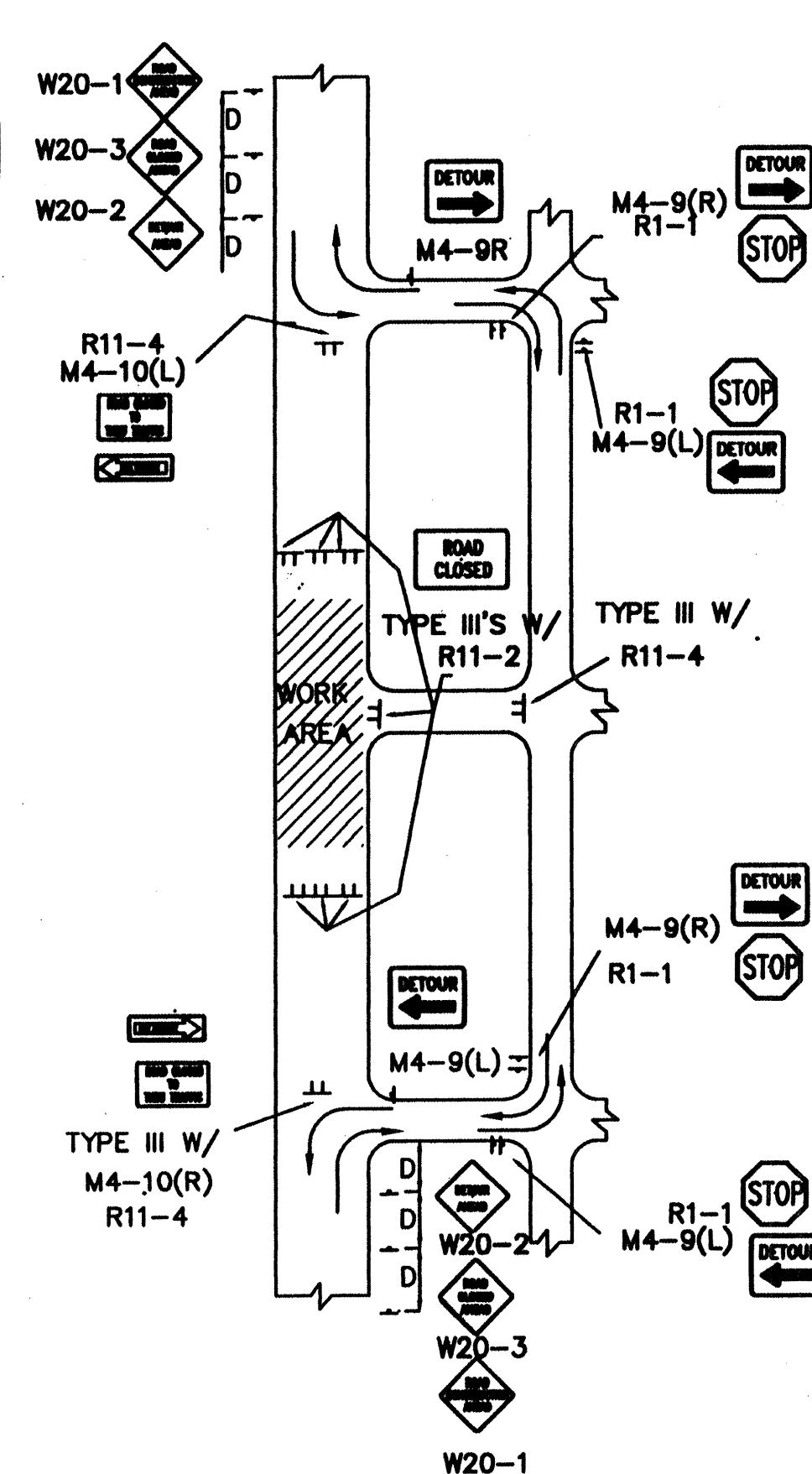
TYPICAL DOUBLE RIGHT LANE CLOSURE



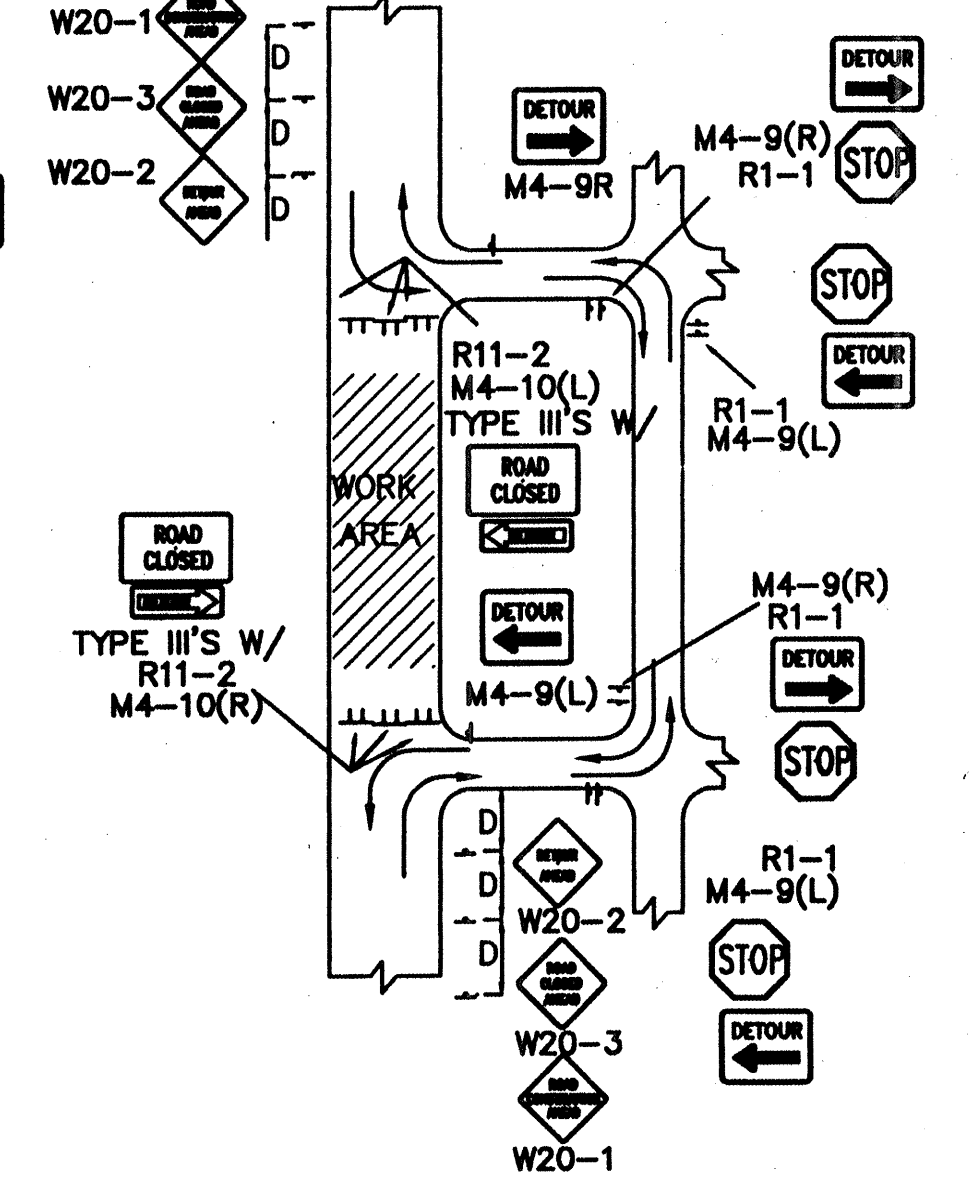
TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION



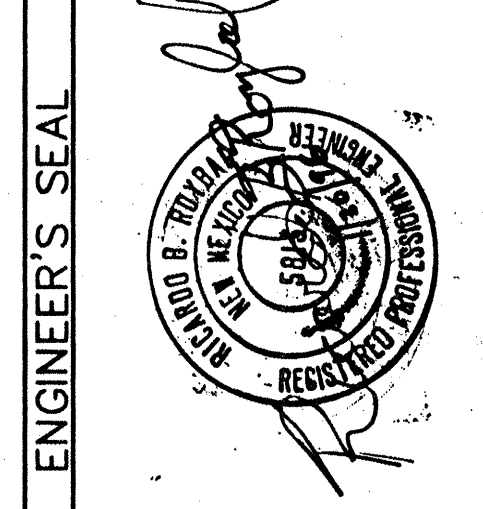
TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

AS BUILT INFORMATION	
CONTRACTOR	DATE
DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
RECORDED BY	DATE

SURVEY INFORMATION	
FIELD NOTES	DATE
NO.	BY



REMARKS	
NO.	DATE
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
TRACTS G-1A-2A THRU G-1A-2E
TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO. 2017/1R	MO. 2017/1R
LAST UPDATE			
PROJECT NO.	566181	MAP NO.	A-14
		SHEET	15
		OF	16

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

- CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.
- CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.
- THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.
- CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
- CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.
- ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
- THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.
- CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.
- ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.
- ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.
- CONTRACTOR SHALL NOT BEGIN WORK BEFORE 7:00 A.M. OR END WORK AFTER 7:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.
- EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
- CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
- CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
- ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
- 24 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.
- ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

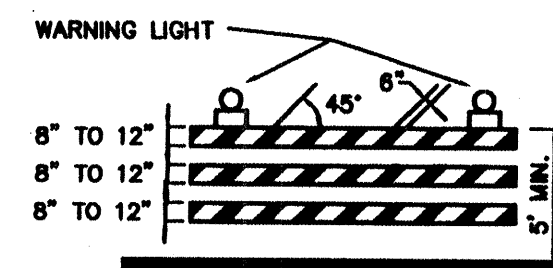
22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
- STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
 - SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

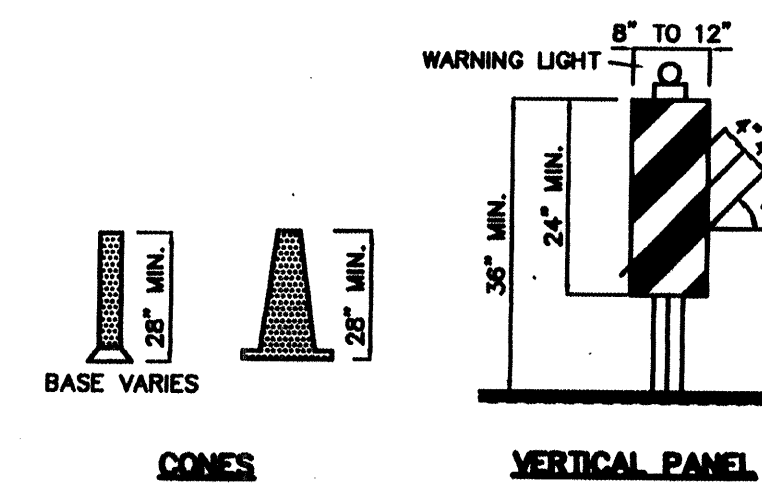
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.

25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

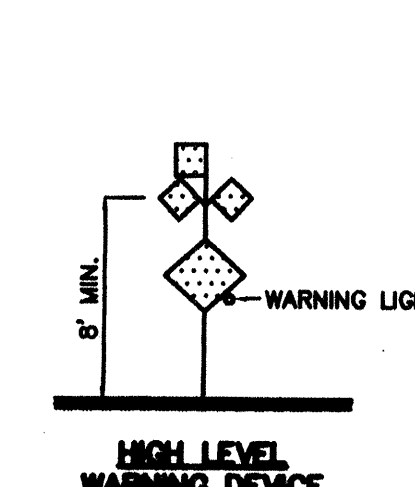
26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER.



TYPE II BARRICADE



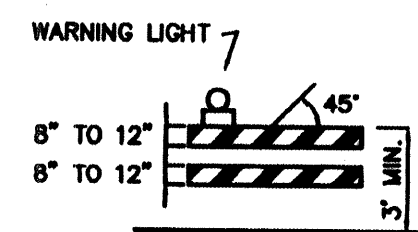
VERTICAL PANEL



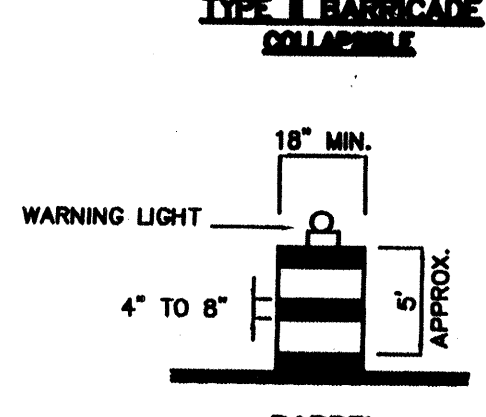
HIGH LEVEL WARNING DEVICE



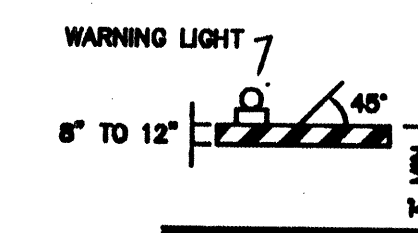
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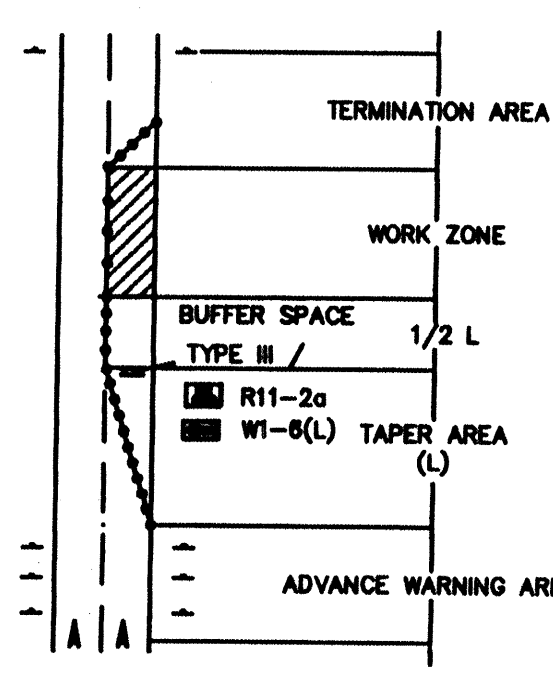
TYPE II BARRICADE



BARREL



TYPE I BARRICADE



TRAFFIC CONTROL ELEMENTS

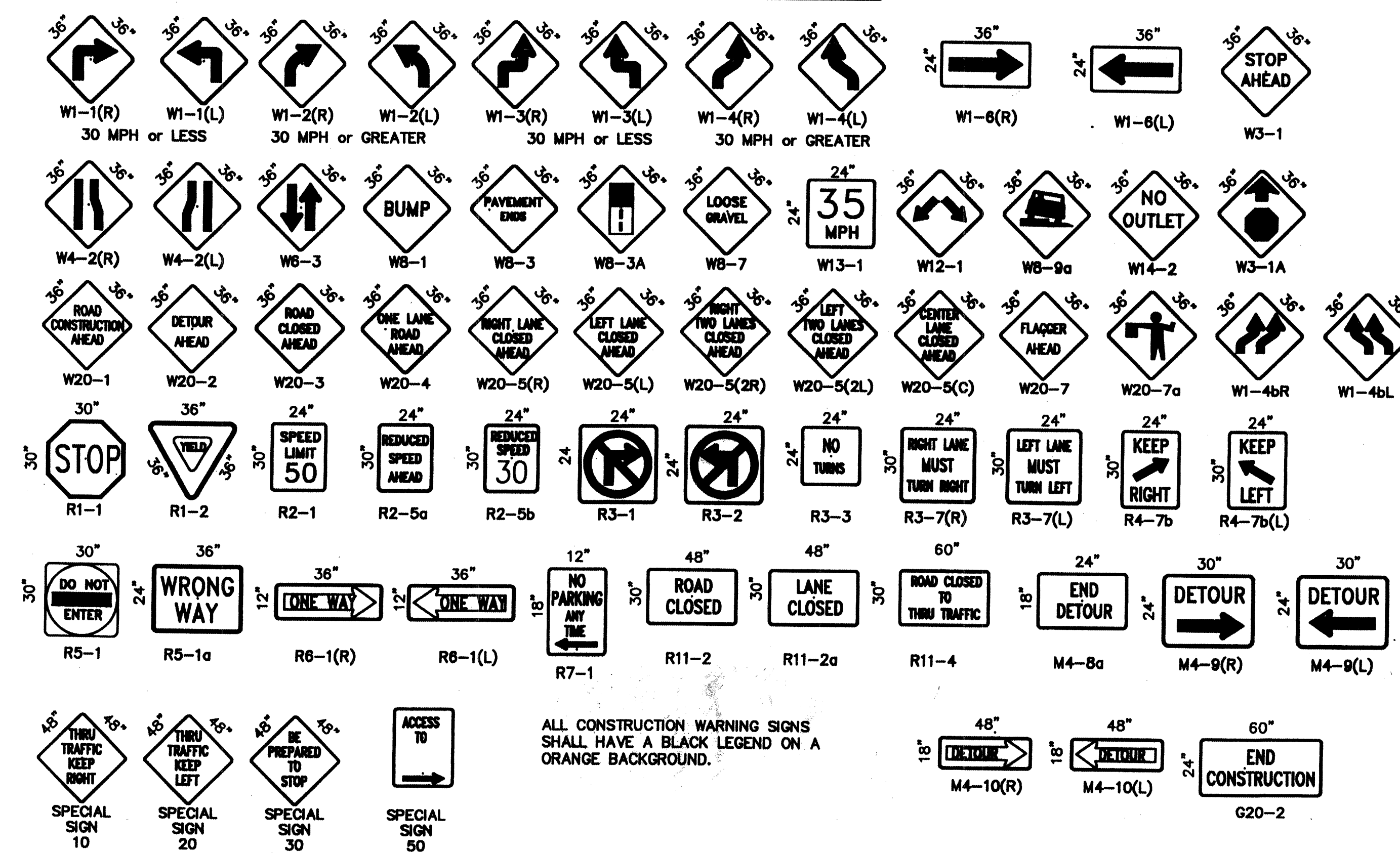
RECORD DRAWING

I, R. P. Bohannon, hereby certify that this drawing has been revised in accordance with the survey information furnished by Surv-Tek, Inc. to reflect the construction as actually accomplished.



R. P. Bohannon
N.M.P.E. No. 9814

SIGN FACE DETAILS



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

LEGEND

- WORK AREA
- BARRICADE - TYPE I, TYPE II, OR BARREL
- BARRICADE - TYPE III
- 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 BELOW
- THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

SPEED LIMIT (MPH)	MINIMUM DISTANCE IN FEET	
	BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR GREATER	$L = W \times S$
L = TAPER LENGTH	
W = WIDTH OF OFFSET IN FEET	
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH	

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TRACTS G-1A-2A THRU G-1A-2E SIGNING & CONSTRUCTION TRAFFIC CONTROL STANDARDS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST UPDATE	
PROJECT NO.	566181	MAP NO.	A-14
		SHEET	OF 16