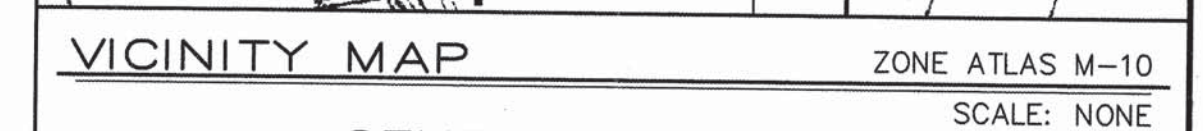


SCANNED BY
MESA REPRO



NOTICE TO CONTRACTORS

- THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

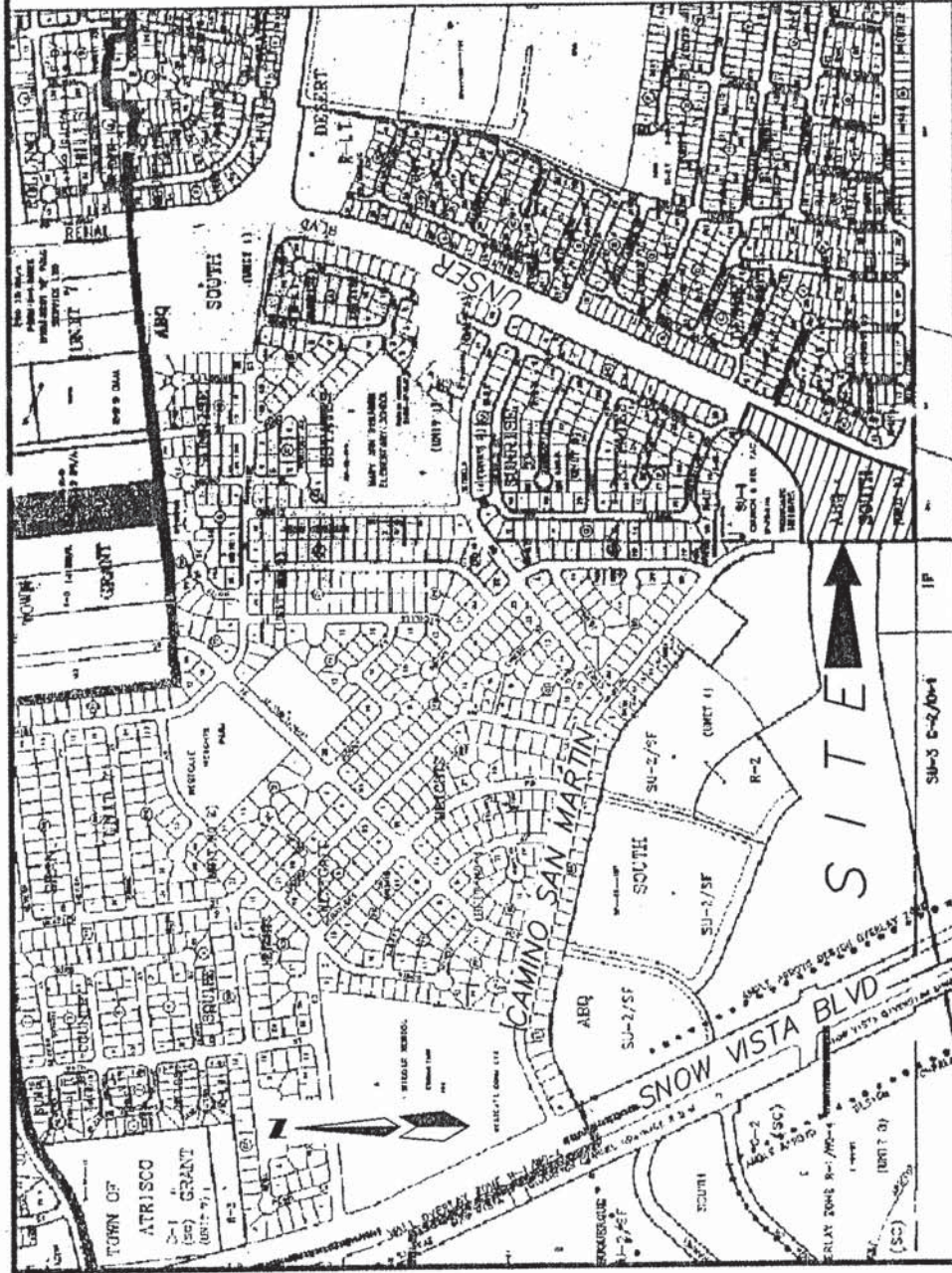
- CAUTION:**

NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. ALL EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE APPROXIMATE LOCATION ONLY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATIONS TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P. O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6		6	4	5	6	.	8	3				0	4

9137CURB/UNIT3/COVER/08-21/00/ MJR ACH NHM



LOCATION MAP		ZONE	ATLAS	M-10-Z
SUBDIVISION DATA		SCALE: NONE		
PLAT CASE NOS.	PROJECT	APPLICATION		
GROSS ACREAGE		7.6359 AC		
ZONE ATLAS NO.		M-10-Z		
NO. OF EXISTING TRACTS/LOTS		1 TRACT		
NO. OF TRACTS/LOTS CREATED		14 LOTS & 1 PARCEL		
NO. OF TRACTS/LOTS ELIMINATED		1 TRACT		
MILES OF FULL WIDTH STREETS CREATED		0.24		
MILES OF HALF WIDTH STREETS CREATED		0.18		
AREA DEDICATED TO CITY OF ALBUQUERQUE		INTERIOR STREETS: 3.8636 AC		
DATE OF SURVEY		JANUARY 1998		
UTILITY CONTROL LOCATION SYSTEM LOG NUMBER		98012614310514		

FREE CONSENT AND DEDICATION

The subdivision hereon described is with the free consent and in accordance with the desires of the undersigned owner(s) and/or proprietor(s) thereof and said owner(s) and/or proprietor(s) do hereby dedicate all streets and public right-of-ways shown hereon to the City of Albuquerque in fee simple with warranty covenants and do hereby grant: all access, utility and drainage easements shown hereon including the right to construct, operate, inspect, and maintain facilities therein; and all public utility easements shown hereon for the common and joint use of gas, electrical power and communication utilities here, for buried distribution lines, conduits, and pipes for underground trees and shrubs. Said owner(s) and maintenance and the right to trim interfering of the foregoing and do hereby certify that this subdivision is their free act and deed.

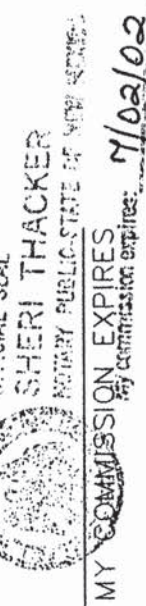
OWNER:
CURB INC.
BY: CHARLES HAEGELIN, PRESIDENT

Charles Haegelin
CHARLES HAEGELIN
PRESIDENT OF CURB INC.

7-27-00
DATE

OWNER'S ACKNOWLEDGMENT

STATE OF NEW MEXICO } ss
COUNTY OF BERNALILLO }
This instrument was acknowledged before me on July 27, 2000
by CHARLES HAEGELIN, President of CURB INC.
A New Mexico Corporation on behalf of said Corporation.



Sheri Thacker
NOTARY PUBLIC

LEGAL DESCRIPTION

(SEE SHEET 2)

NOTES

(SEE SHEET 2)

PURPOSE OF PLAT

SUBDIVIDE TRACT E, ALBUQUERQUE SOUTH, UNIT 1
INTO 14 RESIDENTIAL LOTS
DEDICATE NEW RIGHT-OF-WAY AS SHOWN
GRANT NEW EASEMENTS AS SHOWN
VACATE EASEMENTS AS SHOWN

SCANNED BY
MESA REPRO

PLAT FOR
EL RANCHO GRANDE I
UNIT 3

WITHIN THE
TOWN OF ATRISCO GRANT
PROJECTED SECTION 34
TOWNSHIP 10 NORTH, RANGE 2 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JULY, 2000

APPROVED AND ACCEPTED BY:

APPROVAL AND CONDITIONAL ACCEPTANCE as specified by the Albuquerque Subdivision Ordinance, Article XI of Chapter 7 of the Revised Ordinances of Albuquerque, New Mexico.

Subdivision Case No. _____

Planning Director, City of Albuquerque, N.M. _____ Date _____

City Engineer, City of Albuquerque, N.M. _____ Date _____

Albuquerque Metropolitan Arroyo Flood Control Authority _____ Date _____

Transportation Development, City of Albuquerque, N.M. _____ Date _____

Utility Development Division, City of Albuquerque, N.M. _____ Date _____

Parks and Recreation _____ Date _____

City Engineer, City of Albuquerque, N.M. *Timothy Aldrich* **8-15-2000** Date _____

Property Management, City of Albuquerque, N.M. *Walter P. Hall* **8-16-00** Date _____

PNM GAS *William Schneider* **08/14/00** Date _____

West Telecommunications *Walter P. Hall* **8-16-00** Date _____

PNM ELECTRIC *Walter P. Hall* **8/14/00** Date _____

Comcast Cable *Walter P. Hall* **8/14/00** Date _____

SURVEYOR'S CERTIFICATION

I, Timothy Aldrich, a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that this plat and description were prepared by me or under my supervision, shows all easements as shown on the plat of record or made known to me by the owners and/or proprietors of the subdivision shown hereon, utility companies and other parties expressing an interest and meets the minimum Subdivision requirements for monumentation and surveys of the Albuquerque Subdivision Ordinance, and further meets the Minimum Standards for Surveying in the State of New Mexico, and is true and correct to the best of my knowledge and belief."

Timothy Aldrich **08-14-00**
TIMOTHY ALDRICH, P.S. No. 7719 DATE

dwg: PLATCOVER	Drawn: SPS	Checked: ALS	Sheet 1 of 2
Scale: 1"=50'	Date: JULY 1, 2000	Job: 99137	

LEGAL DESCRIPTION

A tract of land situate within the Town of Atrisco Grant, projected Section 34, Township 10 North, Range 2 East, Albuquerque South, Unit 1 Tract E, filed in the office of the Bernalillo County Clerk on August 3, 1997, Volume C34, Folio 74 and containing 7.6359 acre more or less.

PUBLIC UTILITY EASEMENTS

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

- The PNM Electric Services Division for the installation, maintenance and service of overhead and underground electrical lines, transformers, poles and any other equipment, fixtures, structures and related facilities reasonably necessary to provide electrical services.
- The PNM Gas Services Division for installation, maintenance and services of natural gas lines, valves and other equipment and facilities reasonably necessary to provide natural gas.
- West for installation, maintenance and service of all buried and aerial communication lines and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to above ground pedestals and closures.
- Comcast Cable for installation, maintenance and service of such lines, cable and other related equipment and facilities reasonably necessary to provide Cable TV service.

NOTES

- Bearings are grid based on the New Mexico State Plane Coordinate System (Central Zone).
- Distances are ground distances.
- Bearings and distances are record and measured.
- Basis of boundary are the following plats of record entitled:
"ALBUQUERQUE SOUTH, UNIT 4", (10-08-99, 99C-286)
"EL RANCHO GRANDE 1, UNIT 1"
()
"EL RANCHO GRANDE 1, UNIT 2"
()
"PARCEL 4, EL RANCHO GRANDE 1"
(03-24-00, 2000C-90)
ALBUQUERQUE SOUTH, UNIT 1 TRACT E
(08-03-87, C34-74)
all being records of Bernalillo County, New Mexico.
- Field Survey performed January, 1998.
- Unless otherwise noted all points are "SET 5/8" REBAR with cap "ALS LS 7719".
- Title Report: None Provided
- These tracts are affected by a RIGHT-OF-WAY EASEMENT to American Telephone and Telegraph Company, recorded May 17, 1930 in Book 112, Page 290, said easement amended by a MODIFICATION EASEMENT, recorded February 13, 1973 in Book Misc. 298, Page 635, said easement assigned to the Mountain States Telepho a and Telegraph Company by Assignment recorded December 13, 1977 in Book Misc. 575, Page 928 all being records of Bernalillo County, New Mexico.

PLAT FOR
EL RANCHO GRANDE I
UNIT 3

WITHIN THE
TOWN OF ATRISCO GRANT
PROJECTED SECTION 34
TOWNSHIP 10 NORTH, RANGE 2 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JULY, 2000

Timothy Aldrich
08-14-00

PLAT FOR
EL RANCHO GRANDE I
UNIT 3
WITHIN THE
TOWN OF ATRISCO GRANT
PROJECTED SECTION 34
TOWNSHIP 10 NORTH, RANGE 2 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JULY, 2000

ACS MONUMENT
Y=18654.54
X=155065.32
G=0.99967987
Δφ=-0016'15"
NAD 1927/SLD 1929

SCANNED BY
MESA REPRO

- EASEMENTS
- EXISTING 25' C.O.A. WATER LINE, SANITARY SEWER AND UTILITY EASEMENT (10-23-65, BK.MISC. 284A, PGS. 655-659)
 - EXISTING 25' C.O.A. WATER LINE EASEMENT (08-04-86, BK.MISC. 379A, PGS. 578-582) (04-08-86, BK.MISC. 339A, PGS. 995-996)
 - EXISTING 50' C.O.A. TEMPORARY DRAINAGE EASEMENT (08-04-80, BK.MISC. 789, PGS. 53-56)
 - EXISTING 50' C.O.A. TEMPORARY DRAINAGE EASEMENT (08-03-87, C34-74, PGS. 898-901) VACATED WITH THIS PLAT
 - PUBLIC
 - EXISTING 44' SANITARY SEWER & UTILITY EASEMENT (03-24-00, 2000C-90)
 - EXISTING 10' PUBLIC UTILITY EASEMENT (10-08-99, 99C-286)
 - EXISTING 20' WATERLINE EASEMENT (10-23-65, BK. MISC. 284A, PG. 668)
 - EXISTING 78' ROADWAY AND PUBLIC UTILITY EASEMENT (08-03-87, C34-74)
 - EXISTING 50' SEWERLINE EASEMENT (08-09-73, BK. D974, PGS. 898-901)
 - EXISTING 20' WATERLINE EASEMENT (09-03-63, C30-16)

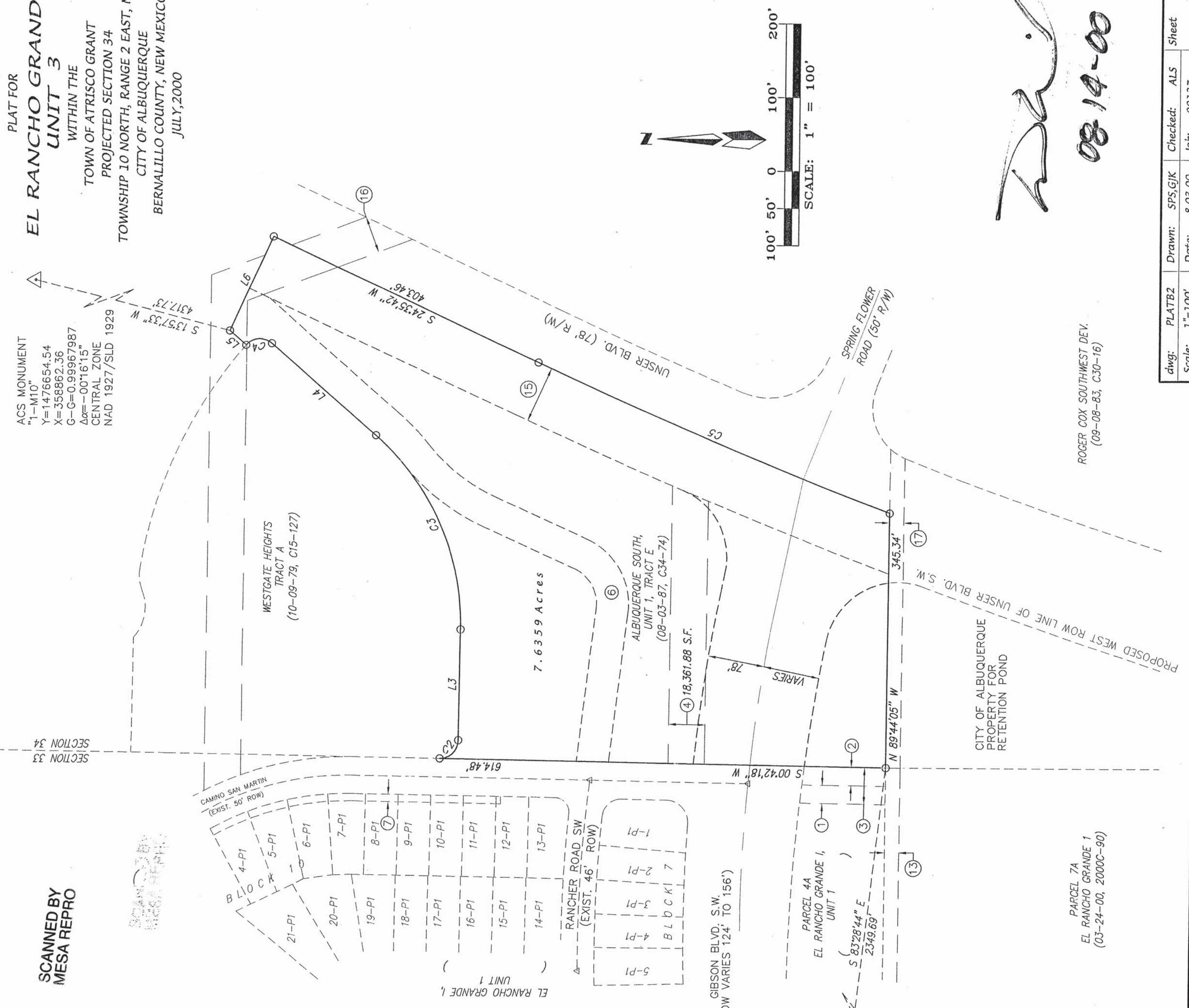
LINE TABLE

NUMBER	DISTANCE	DIRECTION
L3	149.65'	S 89°24'14" E
L4	191.17'	S 40°42'42" W
L5	29.88'	N 40°48'31" E
L6	140.69'	N 65°21'17" W

CURVE TABLE

NUMBER	R =	L =	D =	T =	CH BEARIN=	CHORD LE=
C2	25.00	39.32	90°06'33"	25.05	N 44°20'58" W	35.39
C3	344.33	299.79	49°53'03"	160.14	N 65°39'14" W	290.41
C4	25.00	39.23	89°54'11"	24.96	N 04°14'23" W	35.33
C5	7717.46	1526.81	10°54'40"	263.51	S 22°39'22" W	526.71

ACS MONUMENT
Y=1471822.67
X=354899.45
G=0.99967921
Δφ=-0016'42"
CENTRAL ZONE
ELEVATION=5118.43
NAD 1927/SLD 1929



ROGER COX SOUTHWEST DEV.
(09-08-83, C30-16)

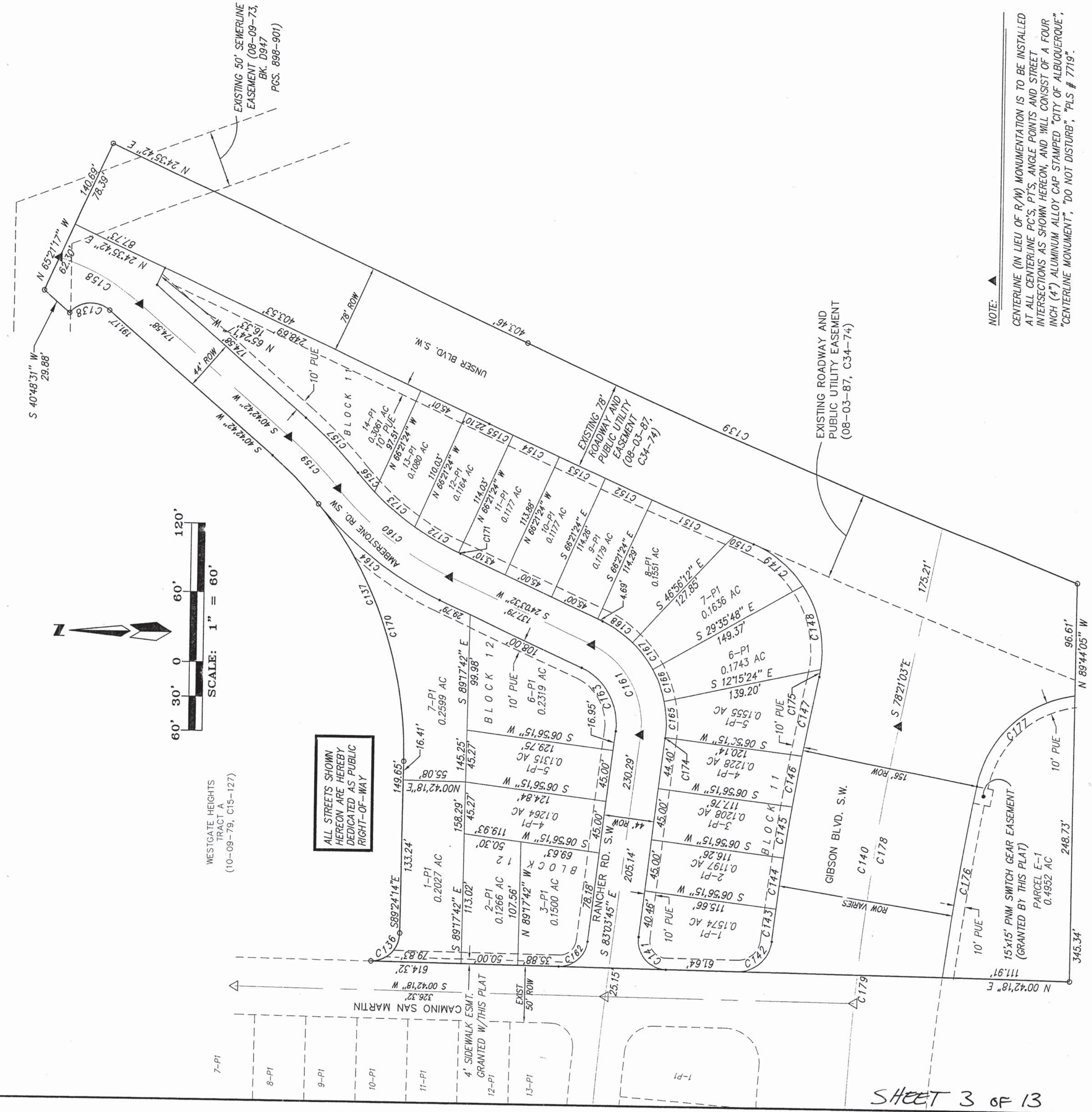
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Scale: 1"=100' Date: 8-03-00 Sheet 3 of 4

PLAT FOR
EL RANCHO GRANDE I
UNIT 3
WITHIN THE
TOWN OF ATRISCO GRANT
PROJECTED SECTION 34
TOWNSHIP 10 NORTH, RANGE 2 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JULY, 2000

60' 30' 0' 60' 120'
SCALE: 1" = 60'

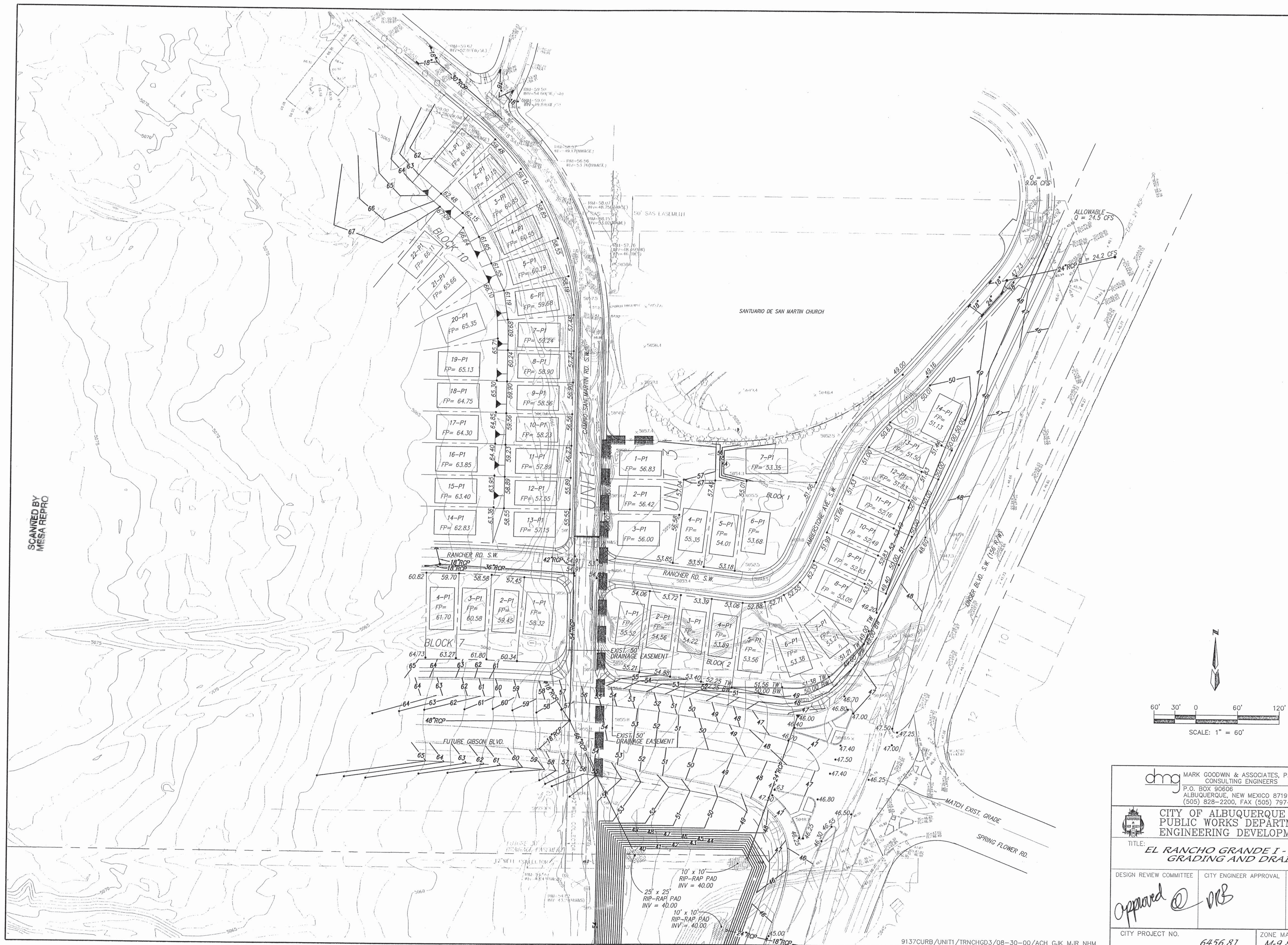
WESTGATE HEIGHTS
TRACT A
(10-09-79, C15-127)

ALL STREETS SHOWN
HEREON ARE HEREBY
DEDICATED AS PUBLIC
RIGHT-OF-WAY



NOTE:
CENTERLINE (IN LIEU OF R/W) MONUMENTATION IS TO BE INSTALLED AT ALL CENTERLINE P.C.'S, P.T.'S, ANGLE POINTS AND STREET INTERSECTIONS AS SHOWN HEREON, AND SHALL CONSIST OF A FOUR INCH (4") ALUMINUM ALLOY CAP STAMPED "CITY OF ALBUQUERQUE," "CENTERLINE MONUMENT," "DO NOT DISTURB," "PLS # 7719".

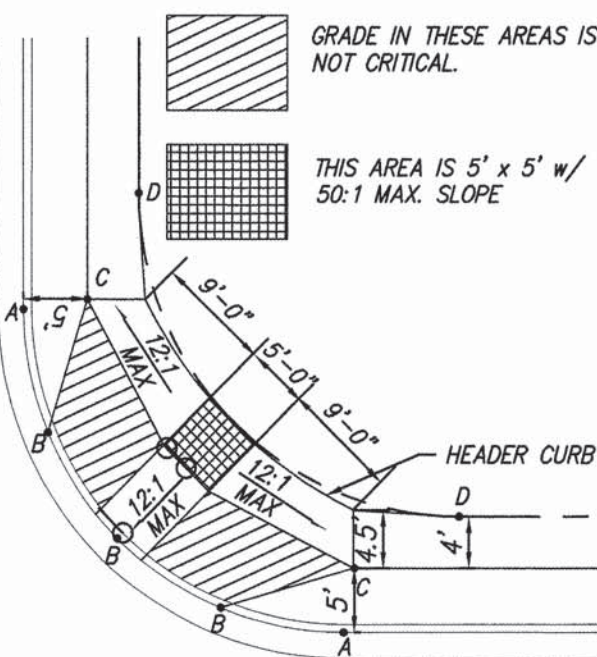
dwg: UNTILEAST Drawn: SPS Date: 07-11-00 Sheet 4 of 4
Scale: 1"=60' Job: 99137

[illegible]

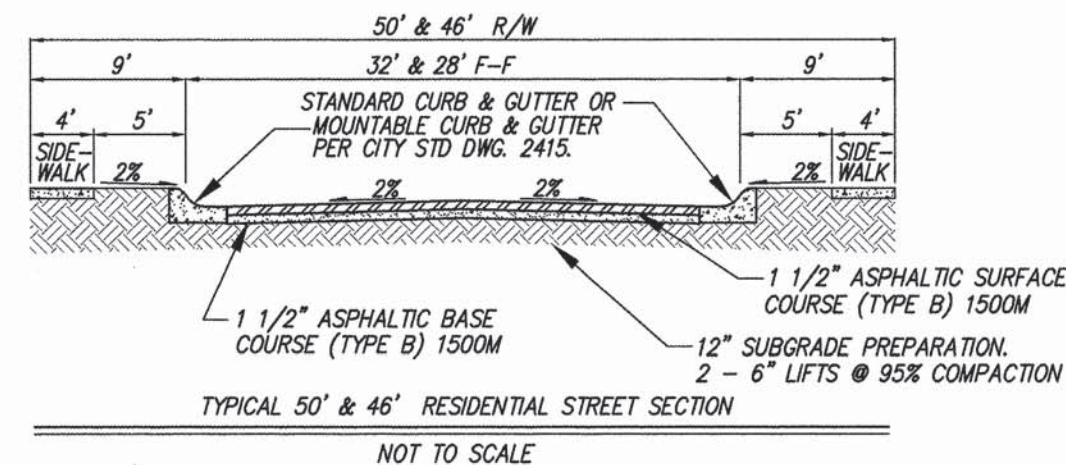
NOTES

1. ALL SIDEWALKS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2430.
2. ALL 6" VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2420.
3. ALL 4" VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2421.
4. ALL 4" INTERIOR SIDEWALKS ARE DEFERRED.
5. ALL HANDICAP RAMPS ARE PER DETAIL ON THIS SHEET.
6. TRANSITION FROM MOUNTABLE CURB TO STANDARD CURB SHALL BE 10 FEET.
7. WHERE MOUNTABLE CURB, STANDARD CURB AT INTERSECTIONS THE TRANSITION WILL BE MADE THROUGH THE HANDICAP RAMP.
8. TRANSITION SECTION FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50 FEET.

A = CURB RETURN POINT
B = QUARTER POINT
C = 5' BEHIND FACE OF CURB RETURN
D = RIGHT OF WAY RETURN POINT

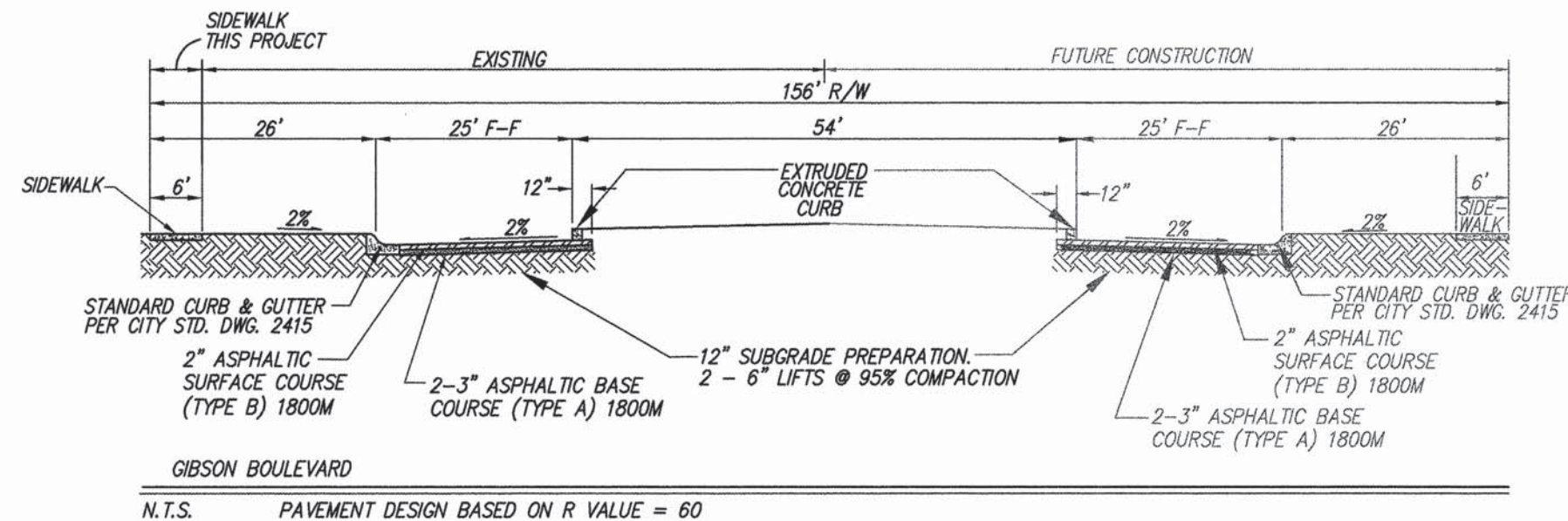


GENERAL WHEEL CHAIR RAMP DETAIL
NOT TO SCALE

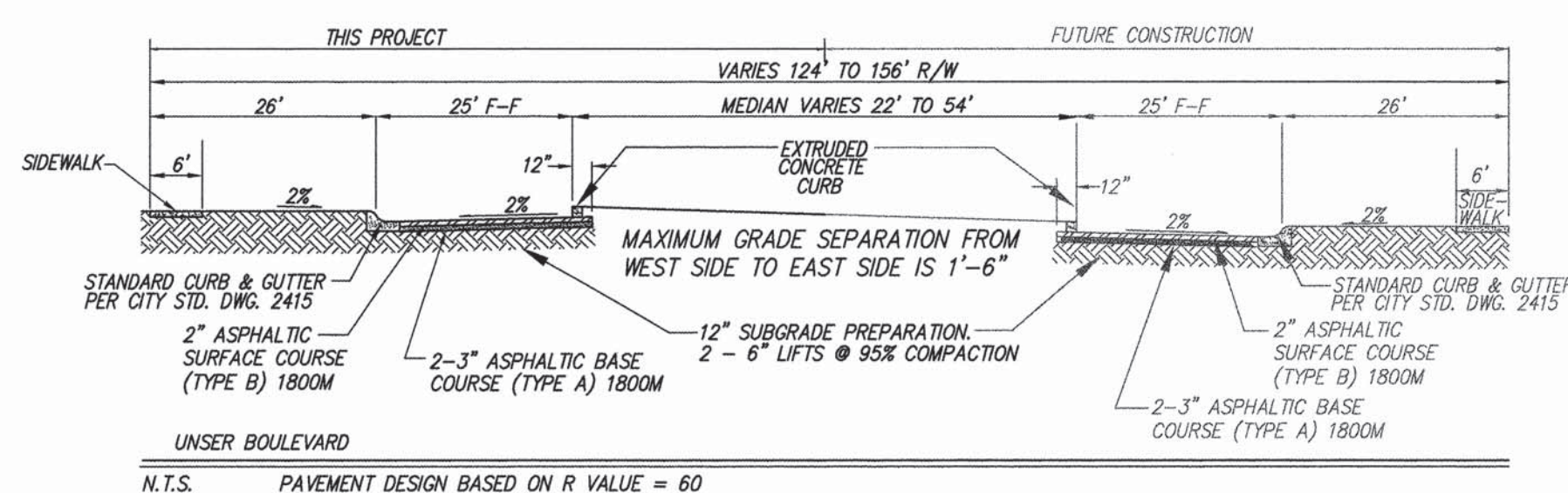


TYPICAL 50' x 46' RESIDENTIAL STREET SECTION
NOT TO SCALE

*NOTE: SOIL NOT HAVING A MINIMUM R-VALUE OF 60 SHALL BE REMOVED TO A DEPTH OF 2 FEET AND REPLACED BY THE CONTRACTOR WITH A SUITABLE MATERIAL OR A PAVEMENT SECTION SHALL BE DESIGNED BY THE CONSULTANT ACCOMMODATING THE EXISTING R-VALUE PER COA STANDARD SPECIFICATIONS.



GIBSON BOULEVARD
N.T.S. PAVEMENT DESIGN BASED ON R VALUE = 60



UNSER BOULEVARD
N.T.S. PAVEMENT DESIGN BASED ON R VALUE = 60

LEGEND

- NEW RETAINING WALL
- STANDARD 8" CURB & GUTTER
- EXTRUDED CONCRETE CURB
- TRACT/LOT BOUNDARY
- RIGHT OF WAY
- PROPERTY LINE
- FUTURE CURB & GUTTER
- FUTURE RIGHT OF WAY
- FUTURE SIDEWALK
- CENTERLINE OF ROAD
- EXISTING LOT LINE
- EXISTING EASEMENTS
- EXISTING CURB AND GUTTER
- UNIT BOUNDARY
- PROPOSED WHEELCHAIR RAMP SEE DETAIL THIS SHEET
- PROPOSED 4' SIDEWALK
- PROPOSED STREET LIGHT

60' 30' 0 60' 120'
SCALE: 1" = 60'

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
TITLE: EL RANCHO GRANDE I - UNIT 3
MASTER PAVING PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
SEP 20 2000	OCT 17 2000		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

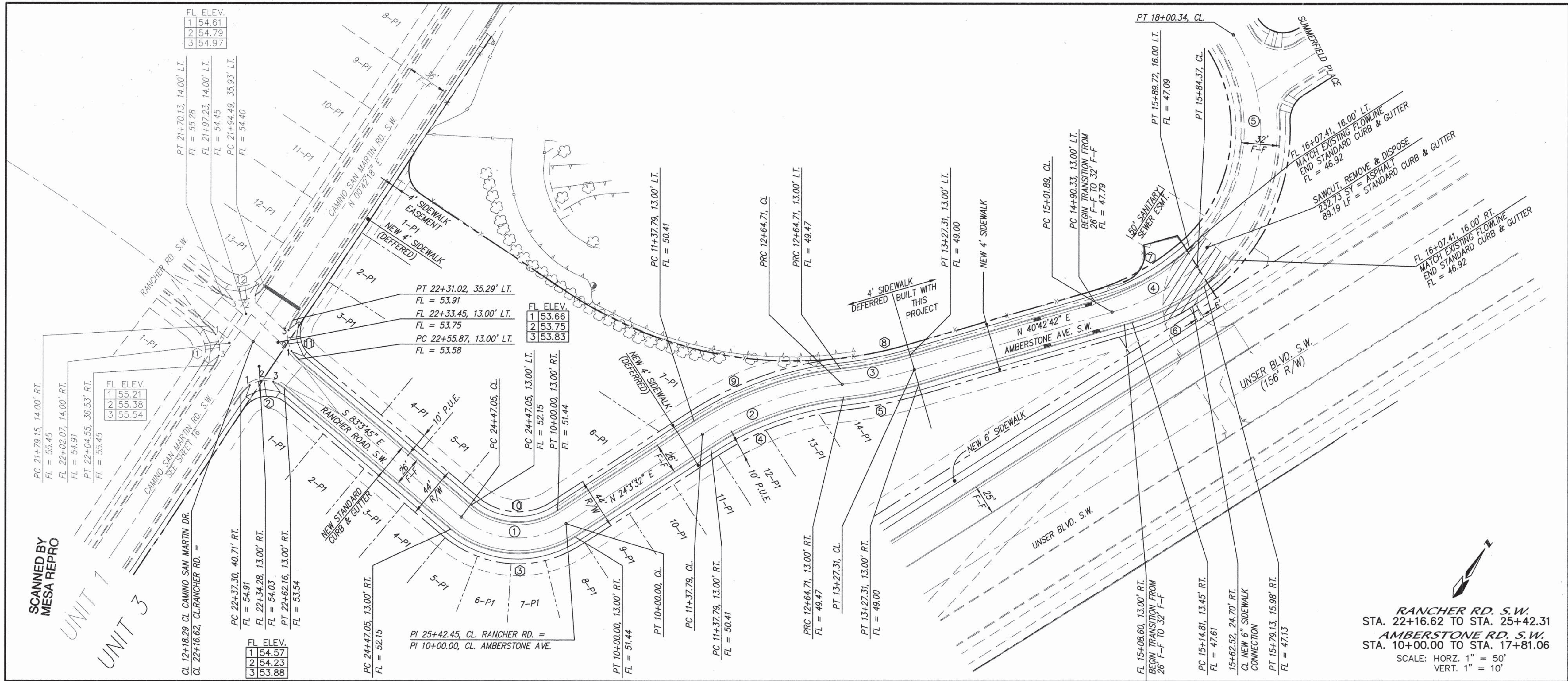
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
6556.83	M-10	5	13



NO.	DATE	REVISIONS	BY
		DESIGN	G/K
		REVISIONS	ACH
		DATE	08/00
		DATE	08/00
		DATE	08/00

DESIGNED BY	DRAWN BY	CHECKED BY
G/K	ACH	DMG

9137CURB/UNIT3/9137MP3/09-12-00/ACH MJR NHM

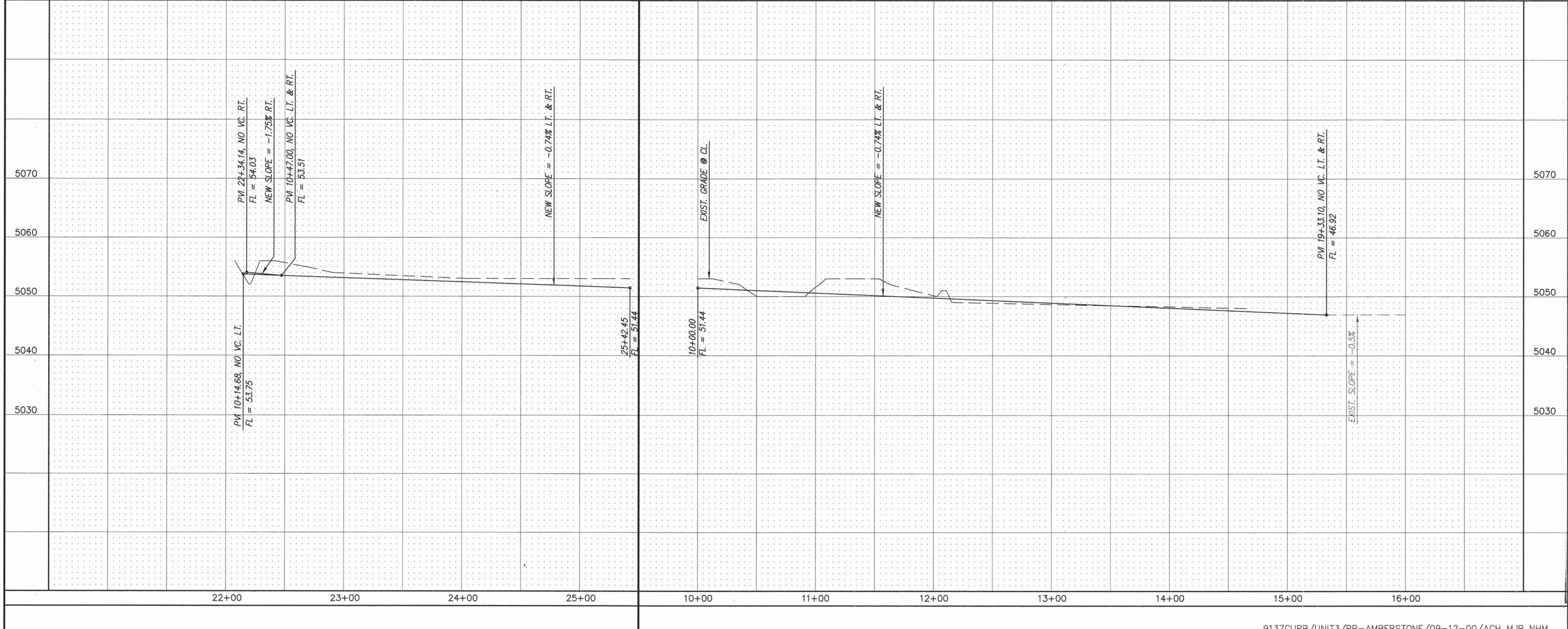


NOTES

CURVE DATA - DESCRIBES CENTERLINE			
① $\Delta = 72^{\circ}52'43''$ $R = 75.00'$ $L = 95.40'$ $T = 55.37'$	② $\Delta = 26^{\circ}26'36''$ $R = 275.00'$ $L = 126.92'$ $T = 64.61'$	③ $\Delta = 9^{\circ}47'26''$ $R = 366.33'$ $L = 62.60'$ $T = 31.38'$	④ $\Delta = 23^{\circ}37'37''$ $R = 200.00'$ $L = 82.47'$ $T = 41.83'$
⑤ $\Delta = 82^{\circ}29'48''$ $R = 150.00'$ $L = 215.98'$ $T = N/A$			

CURVE DATA - DESCRIBES FACE OF CURB & FL ELEV.			
① $\Delta = 84^{\circ}43'13''$ $R = 25.00'$ $L = 36.97'$ $T = 22.80'$	② $\Delta = 96^{\circ}13'57''$ $R = 25.00'$ $L = 41.99'$ $T = 27.88'$	③ $\Delta = 72^{\circ}53'43''$ $R = 88.00'$ $L = 111.93'$ $T = 65.99'$	④ $\Delta = 26^{\circ}26'36''$ $R = 262.00'$ $L = 120.92'$ $T = 61.56'$
⑤ $\Delta = 9^{\circ}47'26''$ $R = 379.33'$ $L = 64.82'$ $T = 32.49'$	⑥ $\Delta = 21^{\circ}40'09''$ $R = 183.00'$ $L = 69.21'$ $T = 35.02'$	⑦ $\Delta = 25^{\circ}39'50''$ $R = 207.00'$ $L = 92.72'$ $T = 47.15'$	⑧ $\Delta = 9^{\circ}47'26''$ $R = 353.33'$ $L = 60.38'$ $T = 30.26'$
⑨ $\Delta = 26^{\circ}26'36''$ $R = 288.00'$ $L = 132.92'$ $T = 67.67'$	⑩ $\Delta = 72^{\circ}52'43''$ $R = 62.00'$ $L = 78.86'$ $T = 45.78'$	⑪ $\Delta = 83^{\circ}46'3''$ $R = 25.00'$ $L = 36.55'$ $T = 22.42'$	⑫ $\Delta = 95^{\circ}3'43''$ $R = 25.00'$ $L = 41.48'$ $T = 27.31'$

RANCHER RD. S.W.
STA. 22+16.62 TO STA. 25+42.31
AMBERSTONE RD. S.W.
STA. 10+00.00 TO STA. 17+81.06
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



ENGINEER'S SEAL

DESIGNED BY: G/K
DRAWN BY: M/JR
CHECKED BY: DMG

DATE: 08/00
DATE: 08/00
DATE: 08/00

REVISIONS

NO.	DATE	REMARKS
1		DESIGN

DESIGN REVIEW COMMITTEE

SEP 20 2000

CITY ENGINEER

OCT 17 2000

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

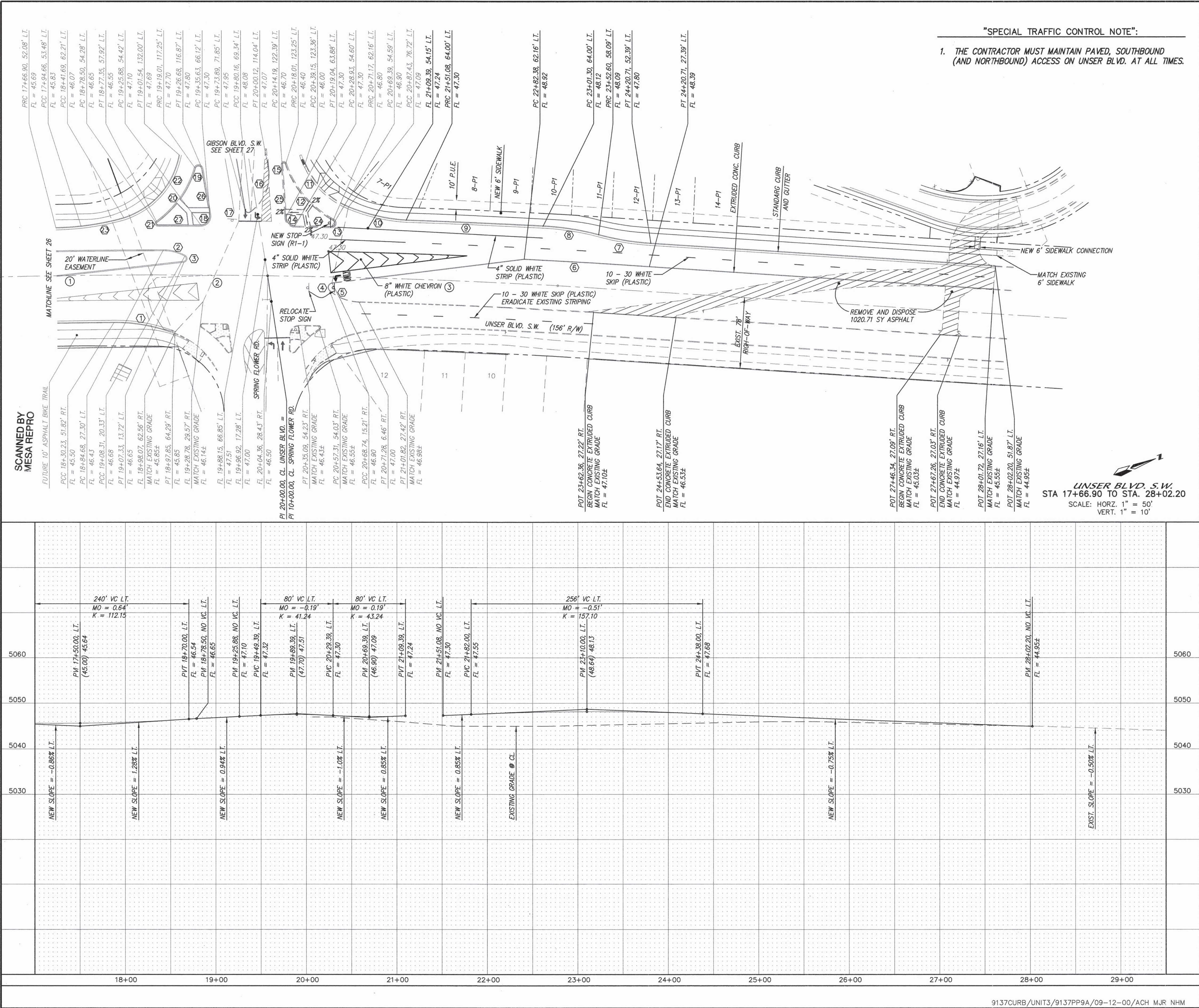
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EL RANCHO GRANDE I - UNIT 3
PAVING IMPROVEMENTS

CITY PROJECT NO. 6456.83

ZONE MAP NO. M-10

SHEET 6 OF 13



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES FACE OF CURB

① Δ = 21°50'25" R = 180.00' L = 68.61' T = 34.73'	② Δ = 28°52'28" R = 50.00' L = 25.20' T = 12.87'
③ Δ = 145°00'33" R = 4.00' L = 10.12' T = 12.69'	④ Δ = 131°12'01" R = 5.00' L = 11.45' T = 11.02'
⑤ Δ = 40°20'52" R = 51.00' L = 35.91' T = 18.74'	⑥ Δ = 101°35' R = 7744.46' L = 138.74' T = 69.37'
⑦ Δ = 11°11'22" R = 300.00' L = 58.59' T = 29.39'	⑧ Δ = 11°54'42" R = 300.00' L = 62.37' T = 31.30'
⑨ Δ = 1°06'55" R = 7781.46' L = 151.48' T = 75.74'	⑩ Δ = 18°56'25" R = 198.97' L = 65.77' T = 33.19'
⑪ Δ = 44°06'24" R = 90.00' L = 69.28' T = 36.46'	⑫ Δ = 43°25'57" R = 110.00' L = 83.38' T = 43.81'
⑬ Δ = 153°17'16" R = 4.00' L = 10.70' T = 16.85'	⑭ Δ = 85°48'39" R = 10.00' L = 14.98' T = 9.29'
⑮ Δ = 166°03'29" R = 2.00' L = 5.80' T = 16.36'	⑯ Δ = 58°34'27" R = 50.00' L = 51.12' T = 28.04'
⑰ Δ = 116°29'43" R = 4.00' L = 8.13' T = 6.46'	⑱ Δ = 99°37'17" R = 10.00' L = 17.39' T = 11.84'
⑲ Δ = 153°46'11" R = 4.00' L = 10.74' T = 17.17'	⑳ Δ = 38°37'36" R = 110.00' L = 74.16' T = 38.55'
㉑ Δ = 144°59'36" R = 2.00' L = 5.06' T = 6.34'	㉒ Δ = 62°05'04" R = 90.00' L = 97.52' T = 54.17'
㉓ Δ = 91°25'52" R = 300.00' L = 48.25' T = 24.18'	㉔ Δ = 0°18'01" R = 7771.46' L = 40.74' T = 20.37'
㉕ Δ = 1°25'25" R = 2363.26' L = 58.72' T = 29.36'	㉖ Δ = 0°35'38" R = 4973.00' L = 51.55' T = 25.77'
㉗ Δ = 0°21'06" R = 7771.46' L = 47.71' T = 23.85'	

CURVE DATA - DESCRIBES CENTERLINE

① Δ = 6°43'24" R = 7428.06' L = 871.66' T = 436.33'	② Δ = 0°55'00" R = 8022.44' L = 128.34' T = 64.17'
③ Δ = 0°22'56" R = 7717.46' L = 320.87' T = 160.46'	

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EL RANCHO GRANDE I - UNIT 3
PAVING IMPROVEMENTS

APPROVED
SEP 20 2000
DESIGN REVIEW COMMITTEE

APPROVED
OCT 17 2000
CITY ENGINEER

LAST DESIGN UPDATE
MO./DAY/YR.
MO./DAY/YR.

CITY PROJECT NO. 6456.83 ZONE MAP NO. M-10 SHEET 7 OF 13



ENGINEER'S SEAL

NO. DATE BY

REVISIONS
DESIGN
DATE 08/00
DRAWN BY GJK
CHECKED BY DMG

REMARKS

NO. DATE BY

REVISIONS

DESIGN

DATE 08/00

DRAWN BY GJK

CHECKED BY DMG

REMARKS

NO. DATE BY

REVISIONS

DESIGN

DATE 08/00

DRAWN BY GJK

CHECKED BY DMG

REMARKS

NO. DATE BY

REVISIONS

DESIGN

DATE 08/00

DRAWN BY GJK

CHECKED BY DMG

REMARKS

NO. DATE BY

REVISIONS

DESIGN

DATE 08/00

DRAWN BY GJK

CHECKED BY DMG

REMARKS

NO. DATE BY

REVISIONS

DESIGN

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REMARKS

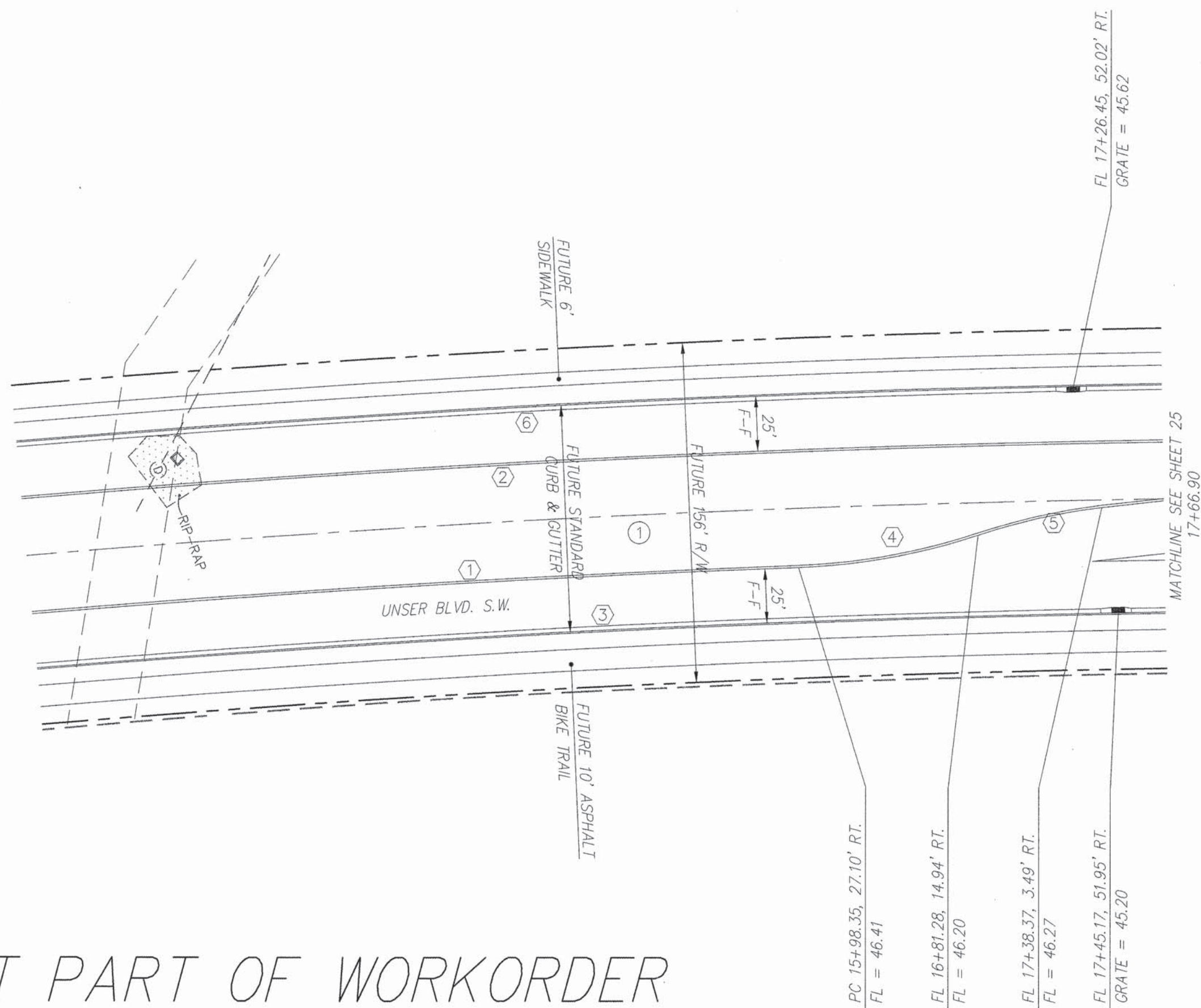
NO. DATE BY

REVISIONS

DESIGN

SCANNED BY
MESA REPRO

NOT PART OF WORKORDER
"INFORMATION ONLY"



UNSER BLVD. S.W.
STA. 10+00.00 TO STA. 21+00.00
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

NOTES

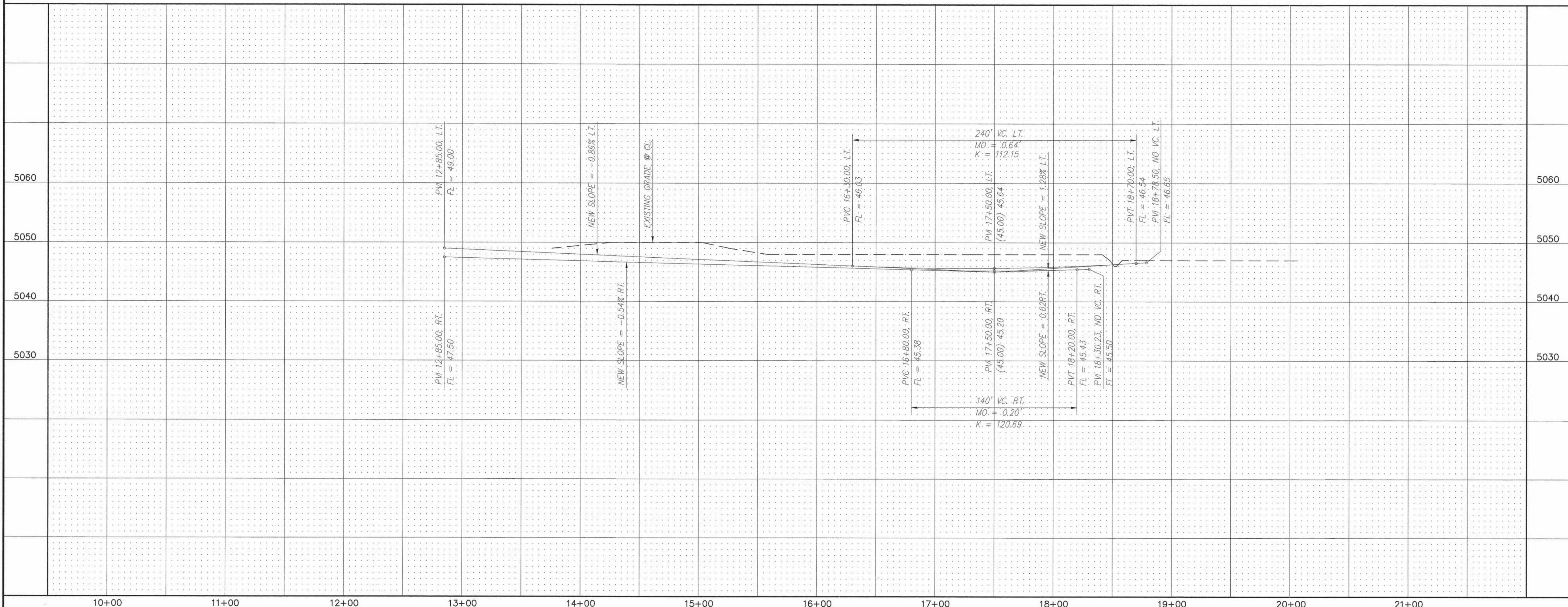
1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES FACE OF CURB

- | | |
|--|--|
| ① $\Delta = 2'37'26''$
$R = 7491.46'$
$L = 353.66'$
$T = N/A$ | ② $\Delta = 3'52'40''$
$R = 7744.46'$
$L = 643.21'$
$T = N/A$ |
| ③ $\Delta = 4'21'25''$
$R = 7665.46'$
$L = 582.92'$
$T = N/A$ | ④ $\Delta = 16'00'59''$
$R = 300.00'$
$L = 83.86'$
$T = 42.21'$ |
| ⑤ $\Delta = 11'07'30''$
$R = 300.00'$
$L = 58.25'$
$T = 29.22'$ | ⑥ $\Delta = 15'34'26''$
$R = 7769.46'$
$L = 526.54'$
$T = N/A$ |

CURVE DATA - DESCRIBES CENTERLINE

- | |
|--|
| ① $\Delta = 6'43'24''$
$R = 7428.06'$
$L = 871.66'$
$T = 436.33'$ |
|--|



dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EL RANCHO GRANDE I - UNIT 3
PAVING IMPROVEMENTS

DESIGN REVIEW COMMITTEE
APPROVE
SEP 20 2000
DESIGN REVIEW COMMITTEE

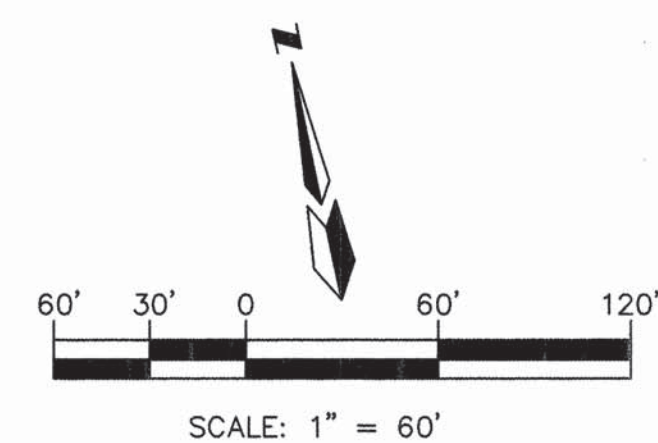
CITY ENGINEER
APPROVE
OCT 17 2000
CITY ENGINEER

CITY PROJECT NO. 6456.83 ZONE MAP NO. M-10 SHEET 8 OF 13



ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
FIELD NOTES		NO.		ACS MONUMENT		CONTRACTOR	
DATE		BY		Y-1471822.67		WORK	
DATE		BY		X-354689.45		STARTED BY	
DATE		BY		C-0-0.99967921		ACCEPTANCE BY	
DATE		BY		Ave-00716'42"		FIELD NO.	
DATE		BY		CENTRAL ZONE		DRAWINGS	
DATE		BY		ELEVATION=5118.43		CORRECTED BY	
DATE		BY		MAD 1927/SID 1929		MICRO-FILM INFORMATION	
DATE		BY				RECORDED BY	
DATE		BY				NO.	

REVISIONS		DESIGN	
NO.	DATE	BY	DATE
1	08/00	G/K	08/00
2	08/00	ACH	08/00
3	08/00	DMG	08/00



1. CONTRACTOR WILL CONTACT WATER SYSTEMS AT 857-8200 3 DAYS PRIOR TO NECESSARY SHUT-OFF.
2. VALVES SHALL ONLY BE OPERATED BY CITY WATER EMPLOYEES.
3. TURN VALVE OFF IN INTERSECTION OF SUMMERFIELD AND AMBERSTONE.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

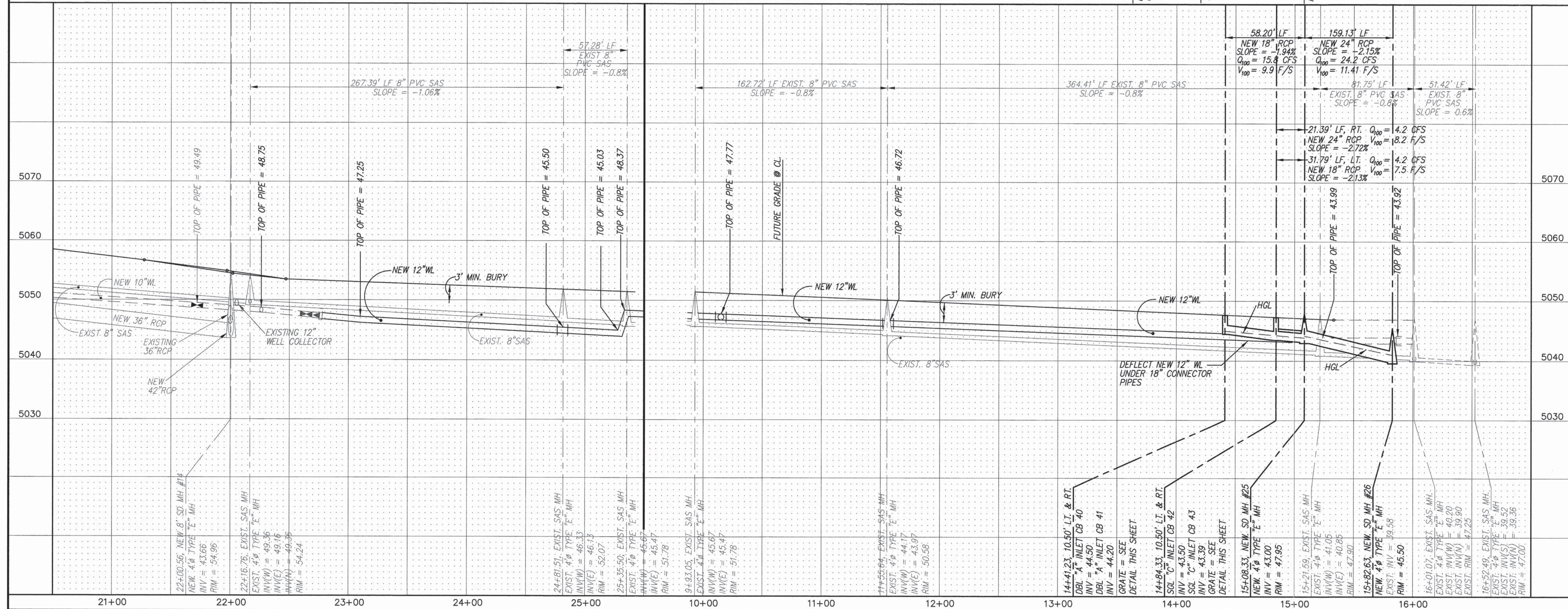
*EL RANCHO GRANDE I - UNIT 3
MASTER UTILITY PLAN*

CITY ENGINEER'S APPROVAL

A P P R O V E D

OCT 17 2000

CITY ENGINEER



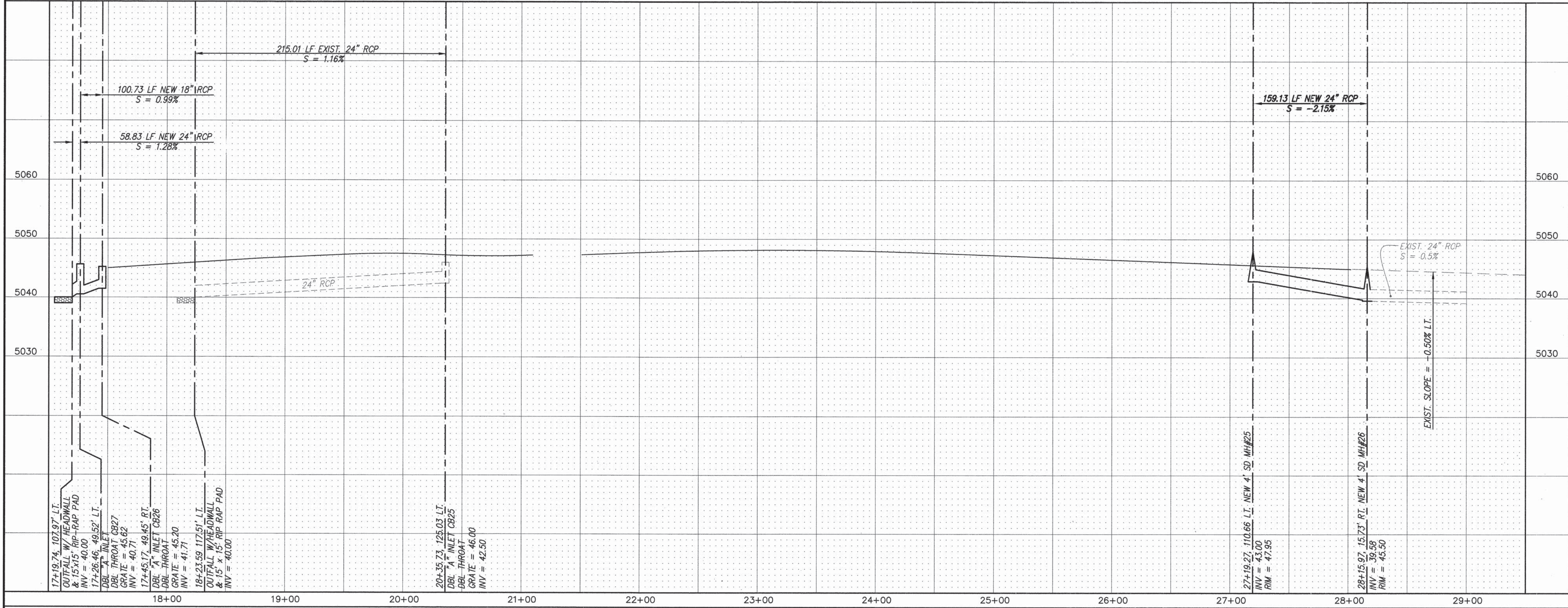
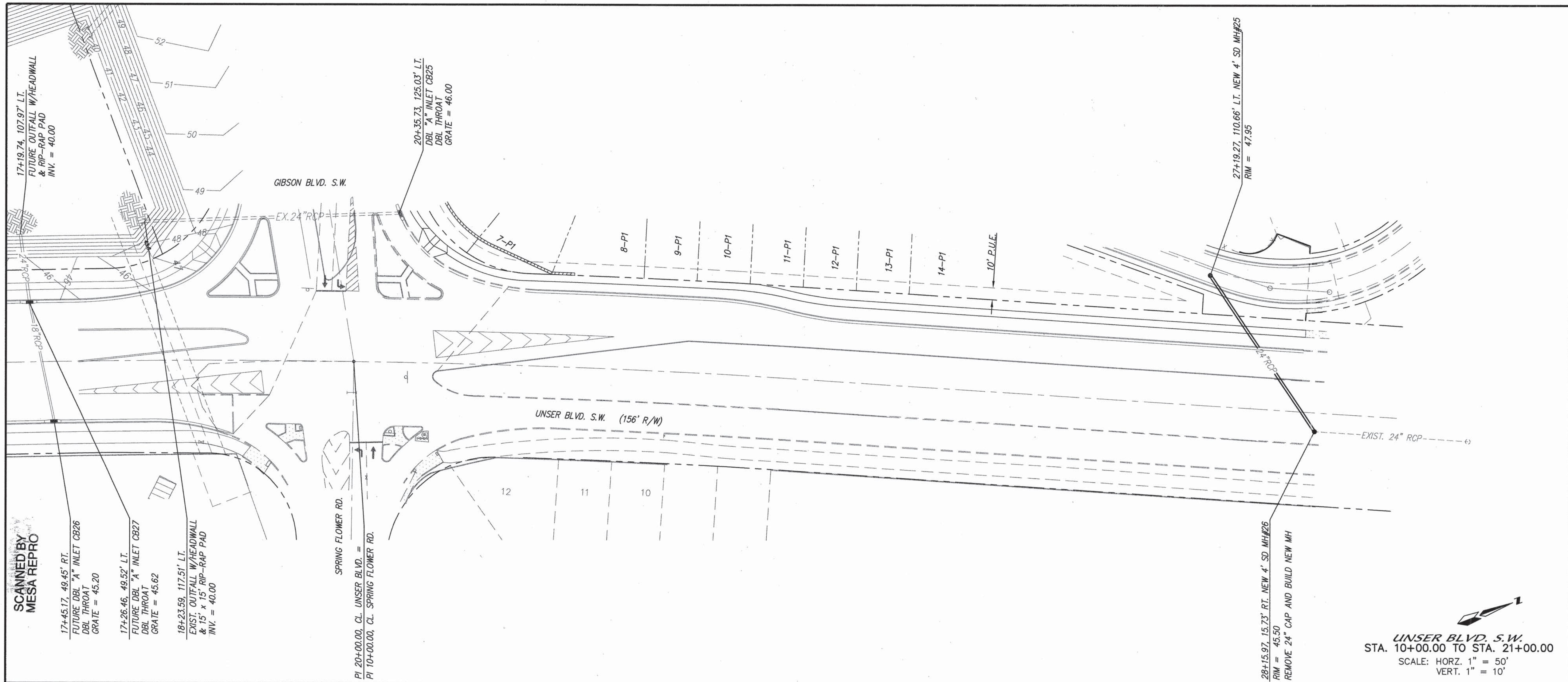
SHEET 0

9137CURB/UNIT3/UP-AMBER/09-12-00/ACH MJR NHM

6456.83

M-10

SHEET 10



NOTES
 1. ALL STATIONING IS CENTERLINE STATIONING.

dmg MARK GOODWIN & ASSOCIATES, P.A.
 CONSULTING ENGINEERS
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 ALBUQUERQUE, NEW MEXICO 87199
 (505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DESIGN REVIEW COMMITTEE
APPROVED
 SEP 20 2000
 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL
APPROVED
 OCT 17 2000
 CITY ENGINEER

DESIGNED BY **GJK**
 DRAWN BY **ACH**
 CHECKED BY **DMG**

REVISIONS
 NO. DATE
 1 08/00
 2 08/00
 3 08/00

DATE
 08/00
 08/00
 08/00

CITY PROJECT NO. **6456.83**

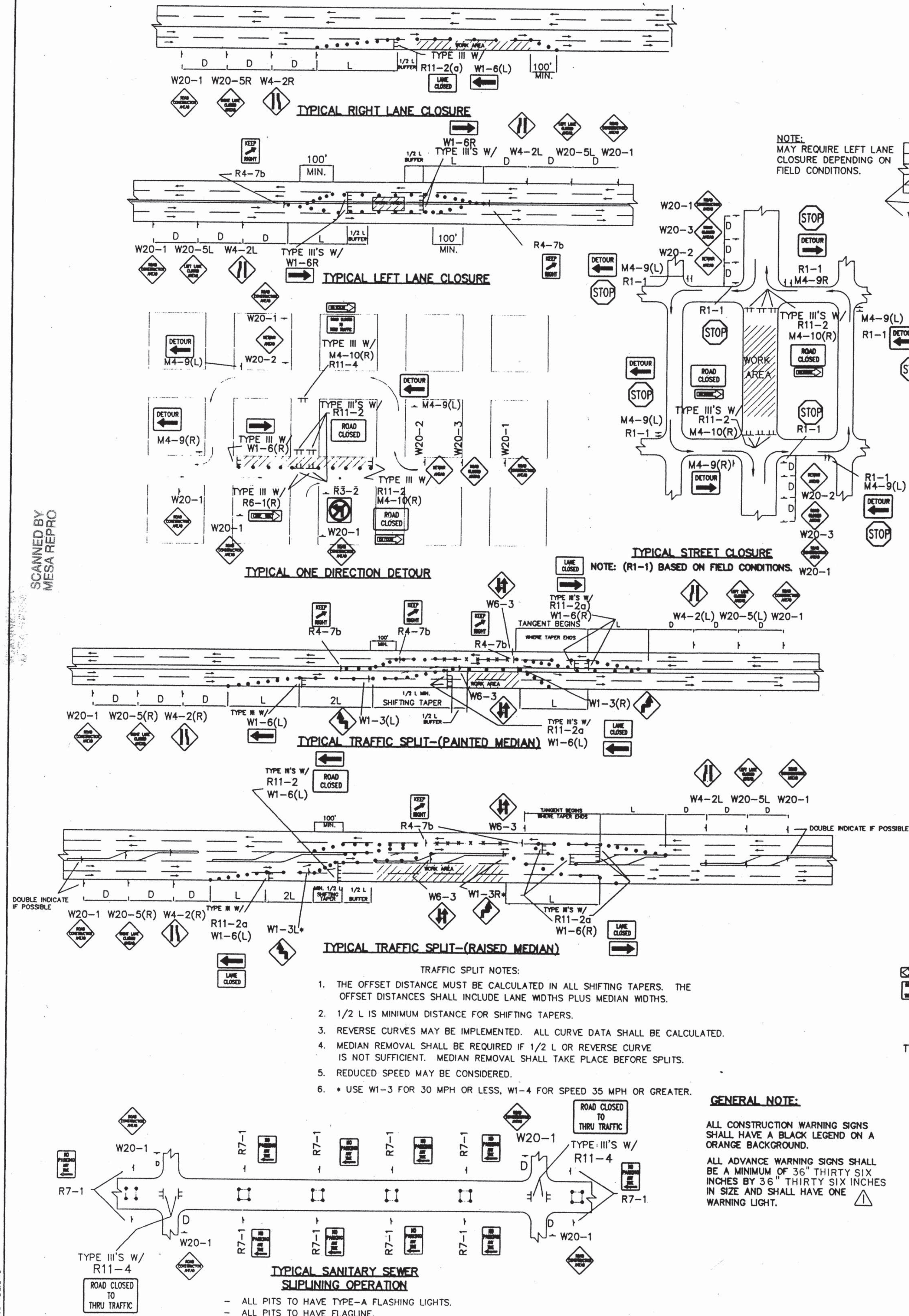
ZONE MAP NO. **M-10**

SHEET **11** OF **13**

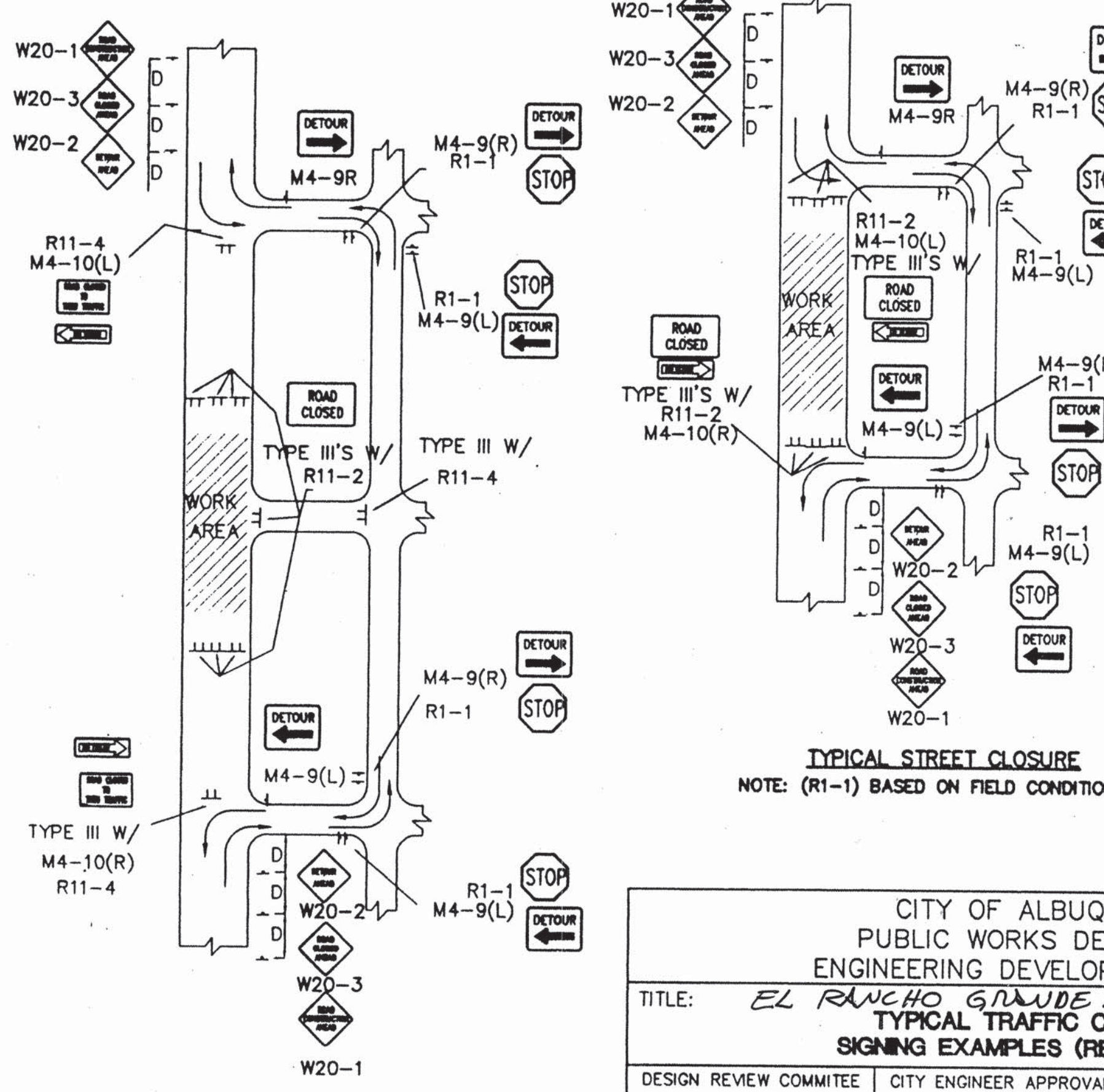
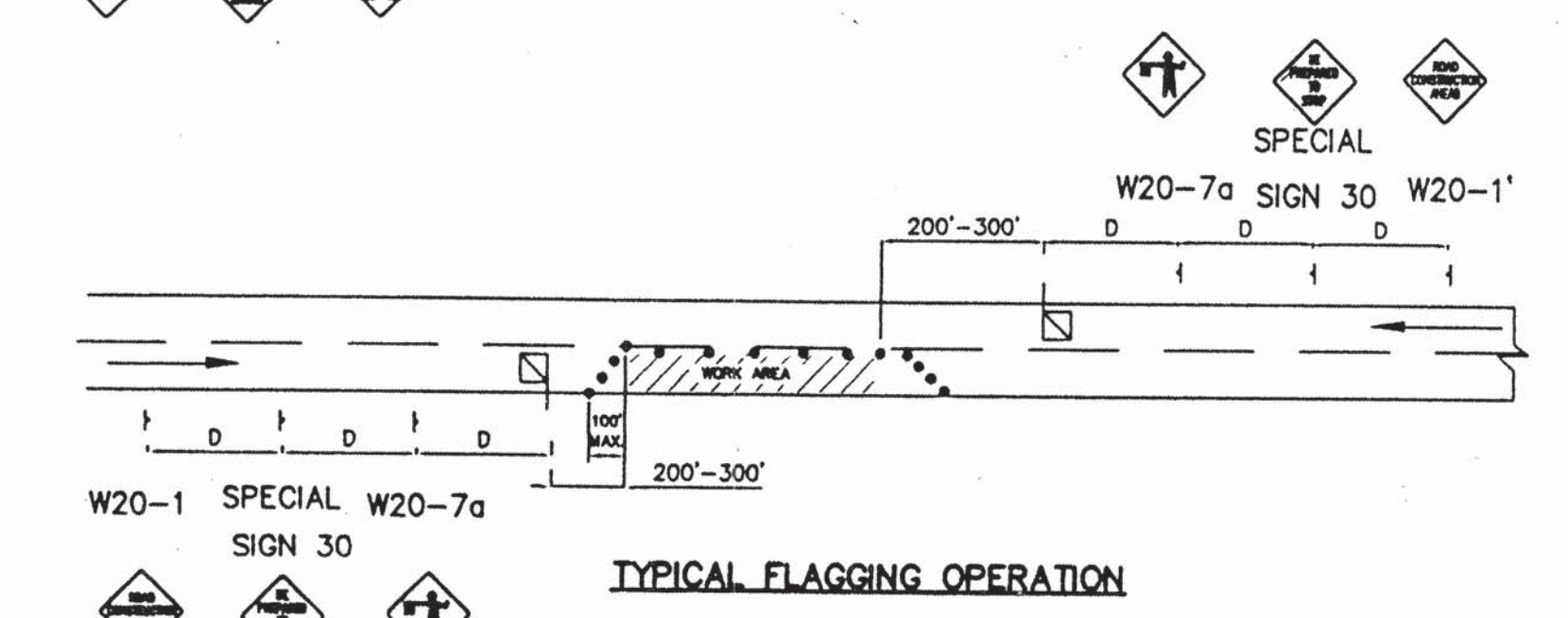
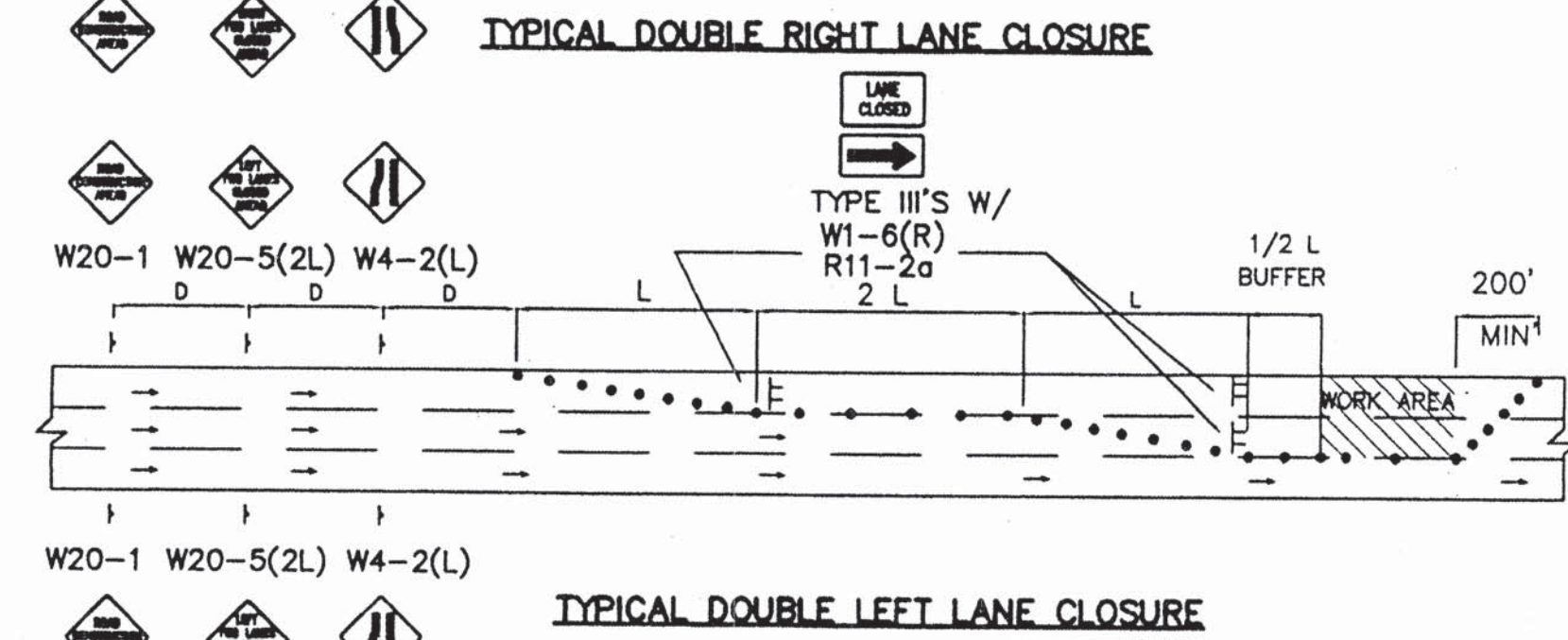
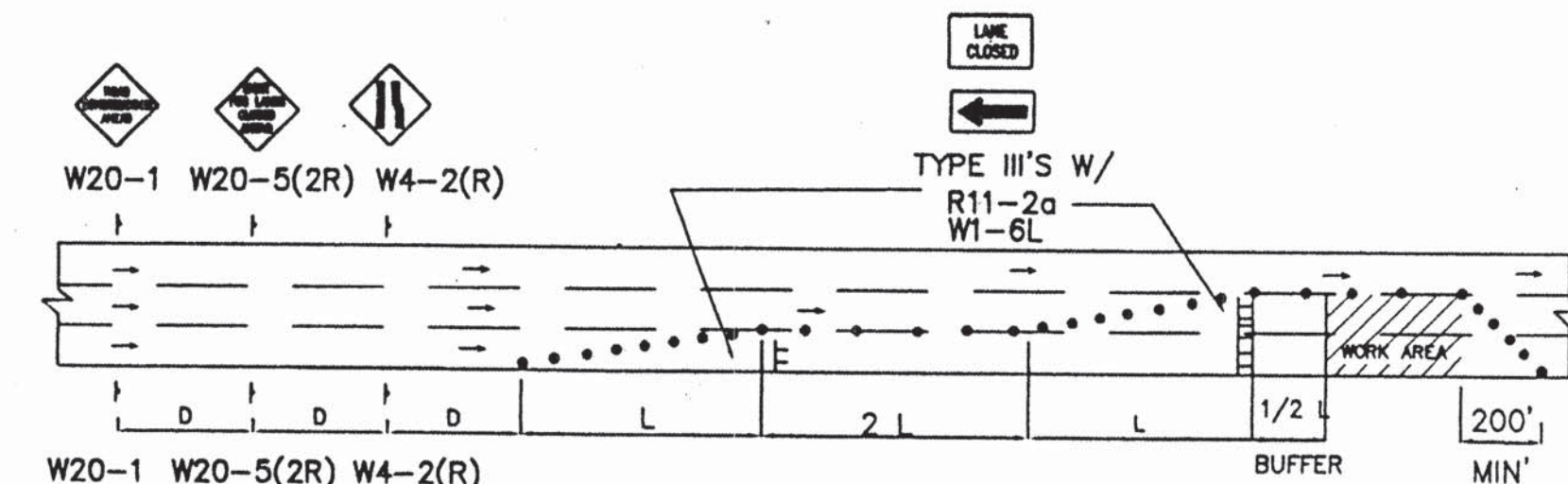
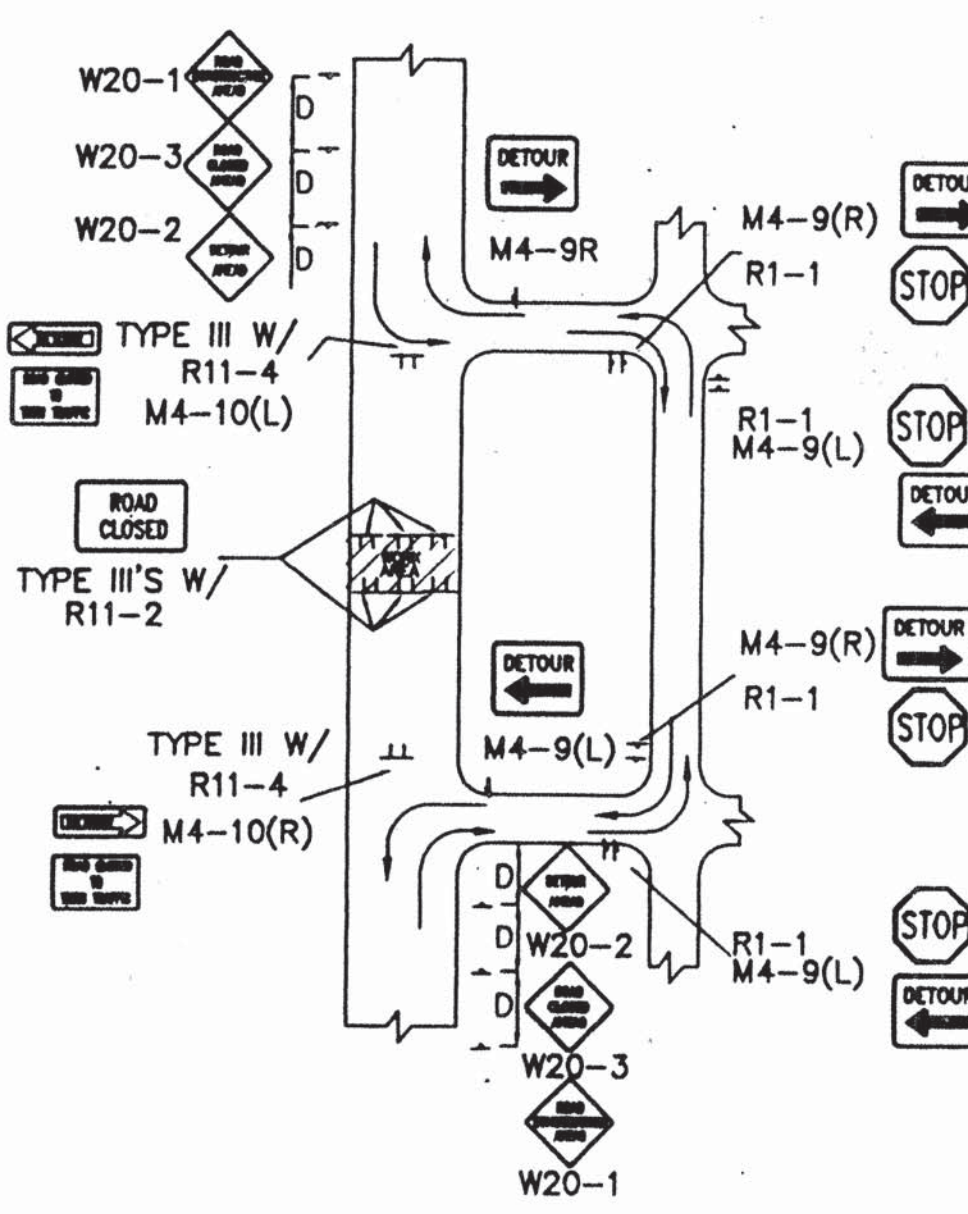
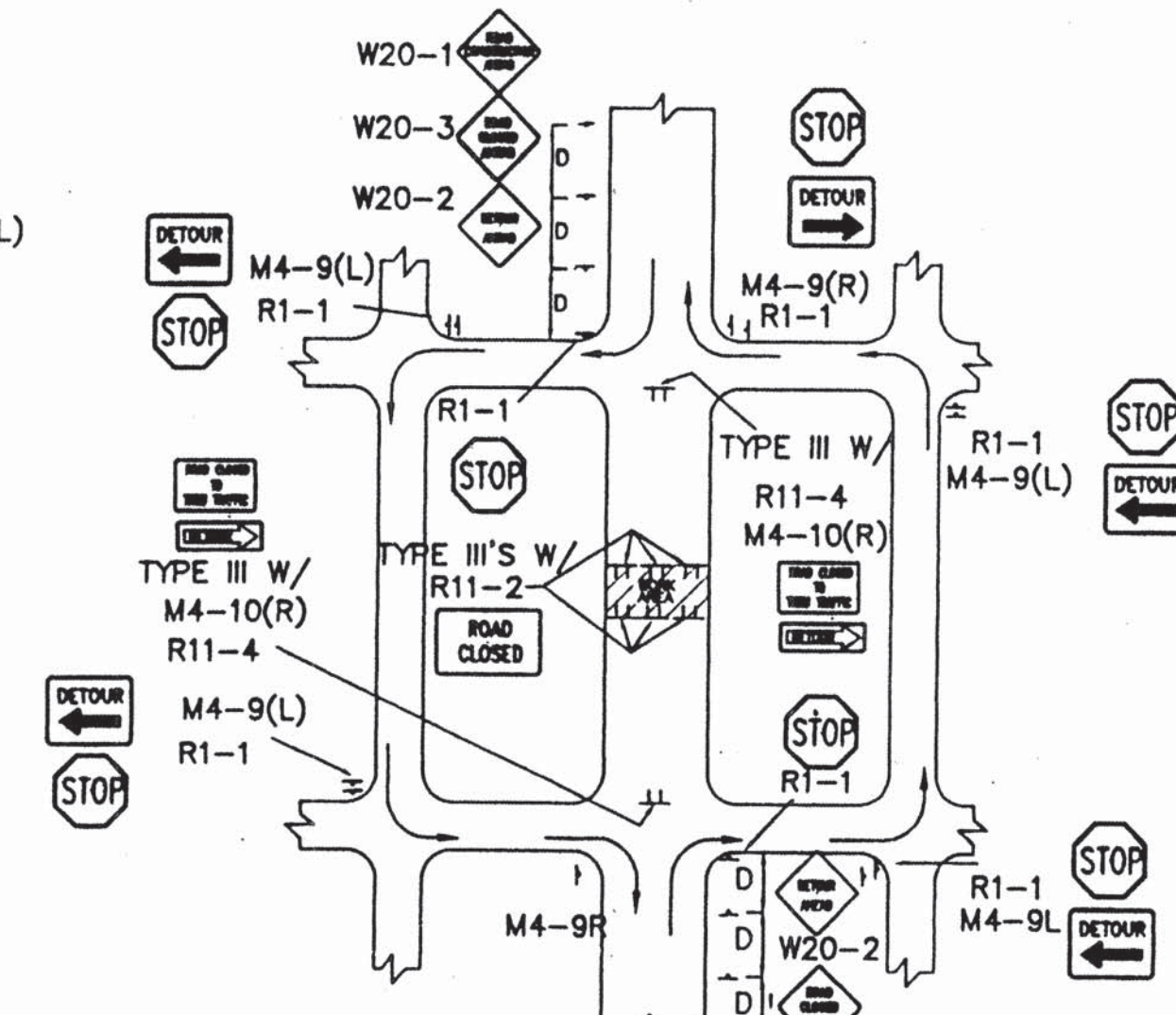
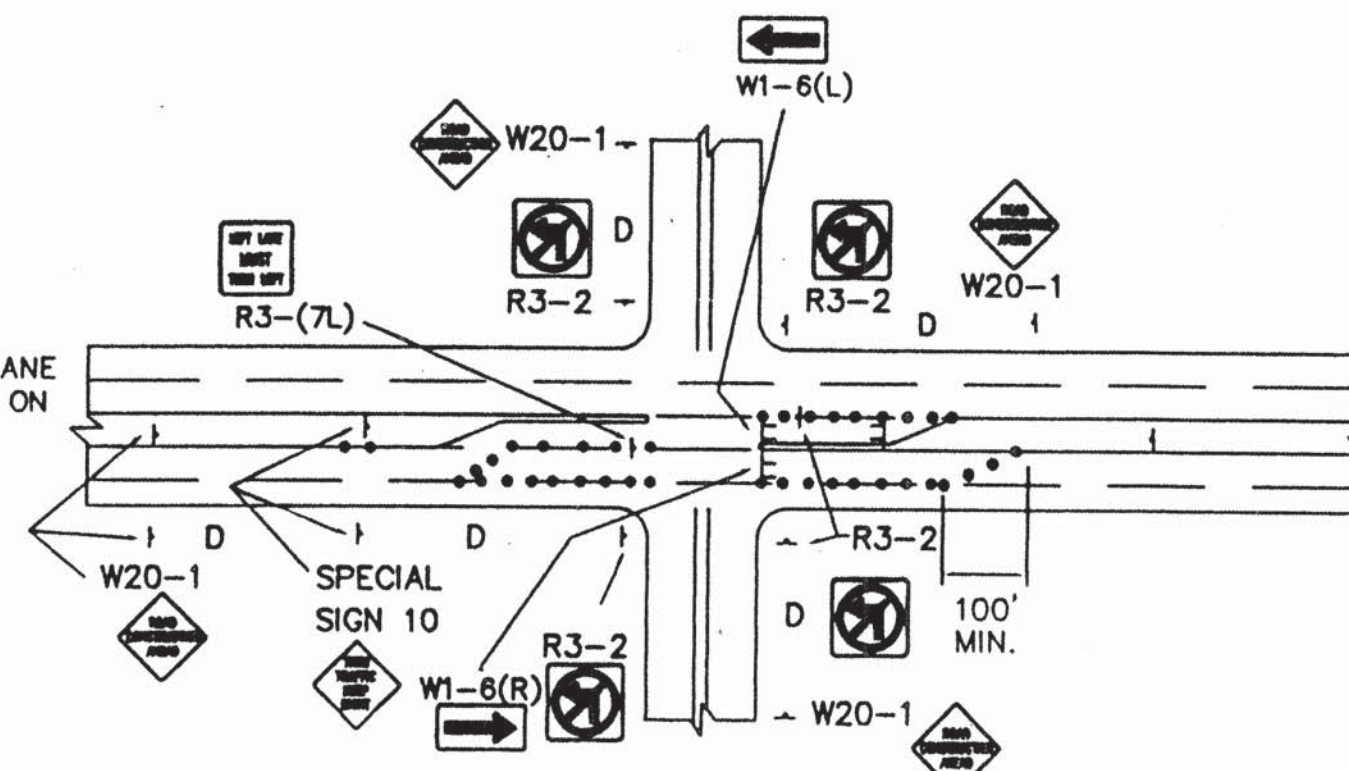
SCANNED BY
MESA REPRO

UNSER BLVD. S.W.
 STA. 10+00.00 TO STA. 21+00.00
 SCALE: HORIZ. 1" = 50'
 VERT. 1" = 10'

SCANNED BY
MESA REPRO



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



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: EL RANCHO GRADE I - UNIT 3 SIGNING EXAMPLES (REF. M.U.T.C.D.)	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
NO. DATE	MO./DAY/YR.
LAST UPDATE	
PROJECT NO.	MAP NO. 11-10
SHEET 12 OF 13	

6456.83

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	BY	NO.	BY	J.D.L. BY	
WORKED BY	DATE	FIELD NOTES		NO.		REVISIONS	
ACCEPTANCE BY	DATE	NO.		NO.		DESIGN	
VERIFICATION BY	DATE	NO.		NO.		C.O.A. STANDARDS	
COMMENTS	DATE	NO.		NO.		DATE	
MICRO-FILM INFORMATION		NO.		NO.		DATE	
RECORDED BY		NO.		NO.		DATE	



CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. 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.

2. 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.

3. 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.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND REVIEWED BY CONSTRUCTION COORDINATION.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.

12. 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.

13. 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.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. 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.

18. 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.

19. 48 HOURS PRIOR TO OCCUPANCY 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.

20. 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:
1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
3. 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 IT'S PLACEMENT AND MAINTENANCE.

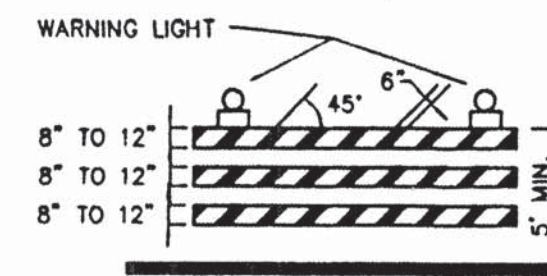
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

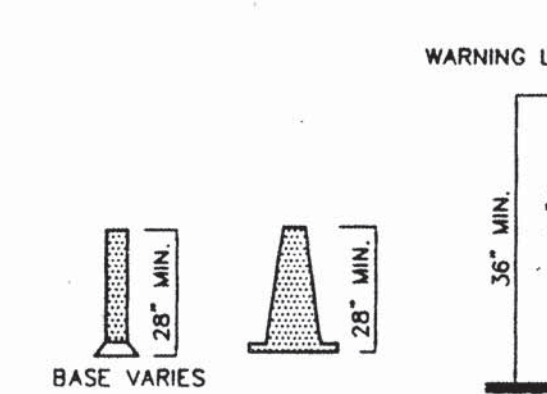
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.

"SPECIAL PROJECT TRAFFIC CONTROL NOTE":

1. THE CONTRACTOR MUST MAINTAIN PAVED, SOUTHBOUND (AND NORTHBOUND) ACCESS ON UNSER BLVD. AT ALL TIMES.



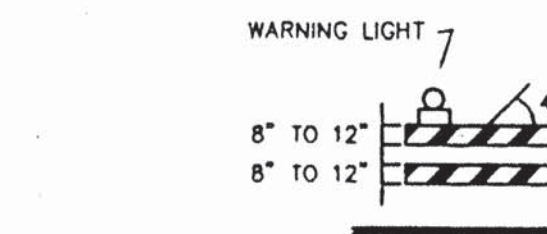
TYPE II BARRICADE



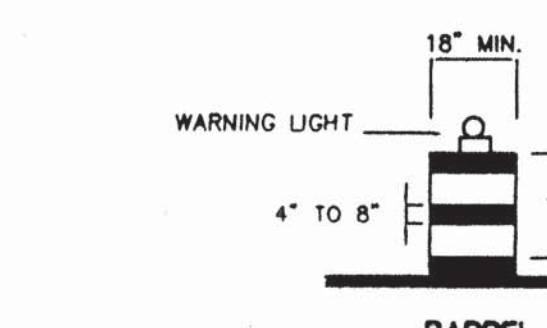
VERTICAL PANEL



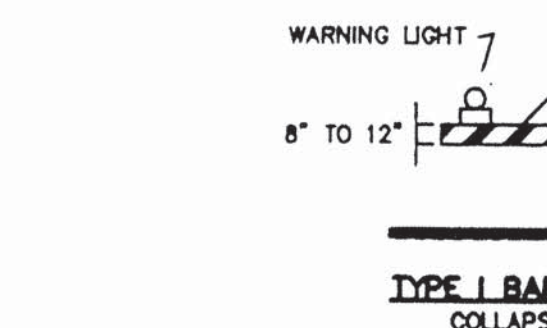
HIGH LEVEL WARNING DEVICE



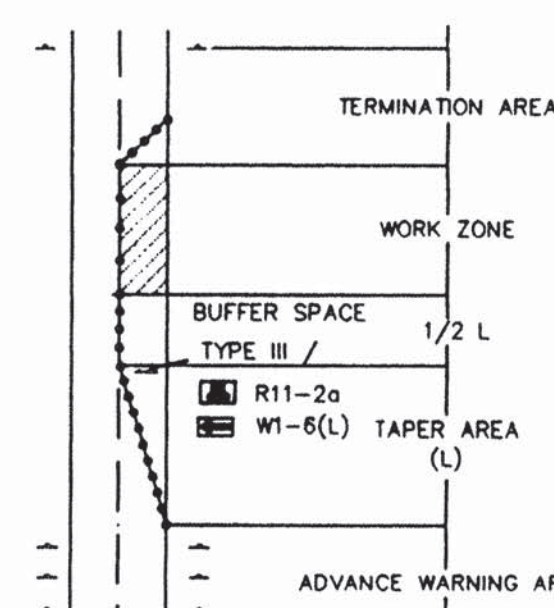
TYPE II BARRICADE COLLAPSIBLE



BARREL



TYPE I BARRICADE COLLAPSIBLE



TRAFFIC CONTROL ELEMENTS

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

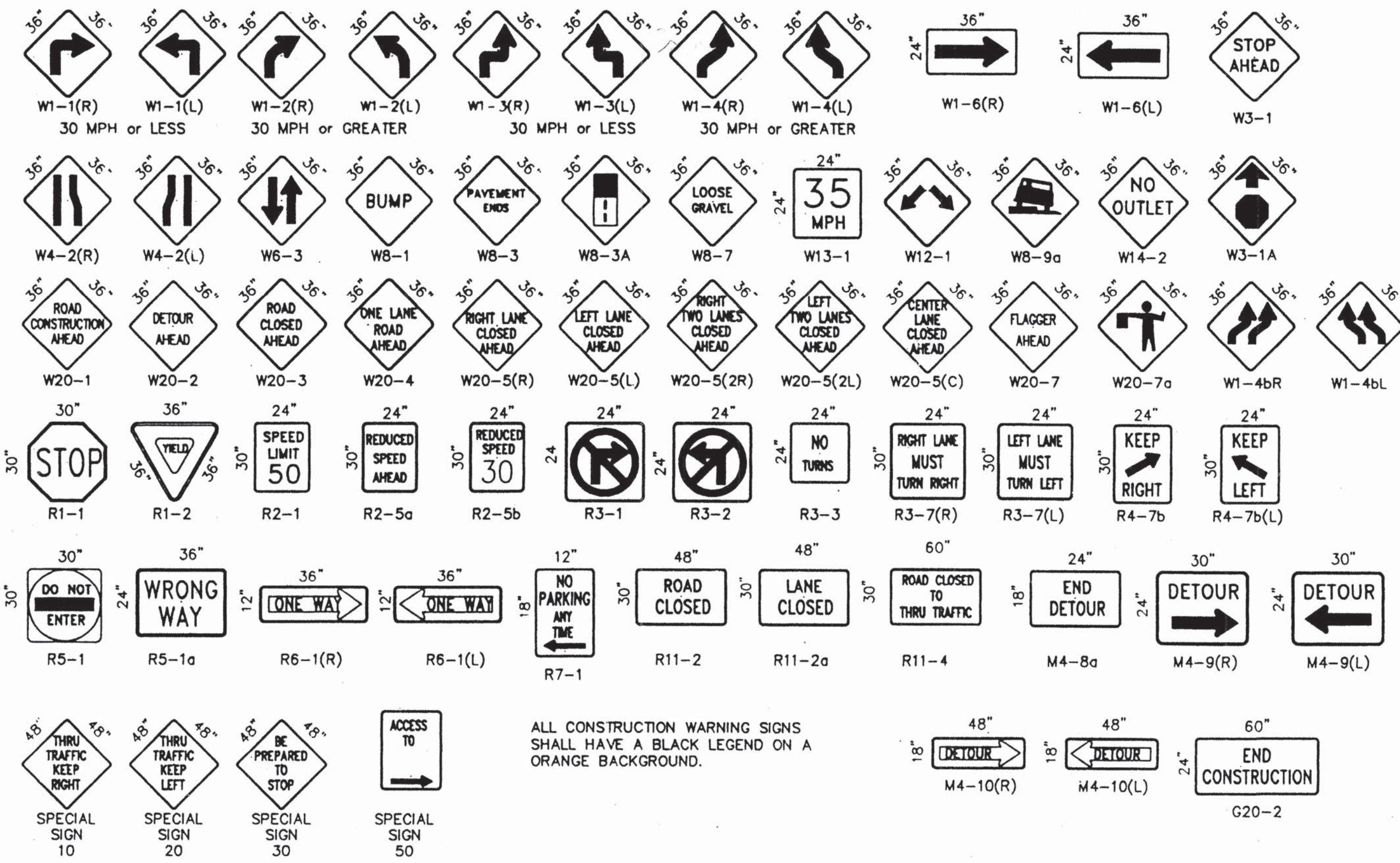
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERCING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	L = WS ² / 60
40 MPH OR LESS	
45 MPH OR GREATER,	L = W x S

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

SIGN FACE DETAILS



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

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: EL RANCHO GRANDE I - UNIT 3 SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
LAST UPDATE	NO. / DATE / R
PROJECT NO.	MAP NO. 11-10
SHEET 13 OF 13	6456.83